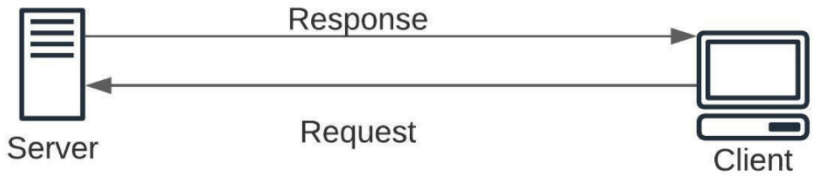
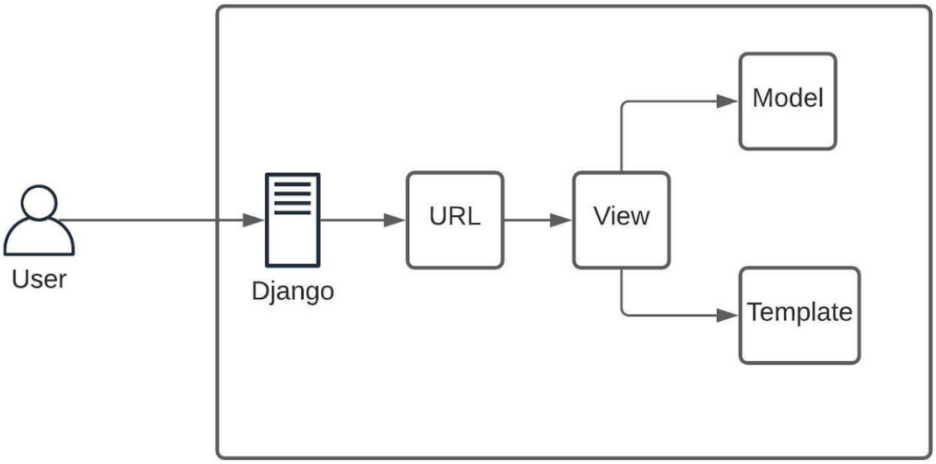
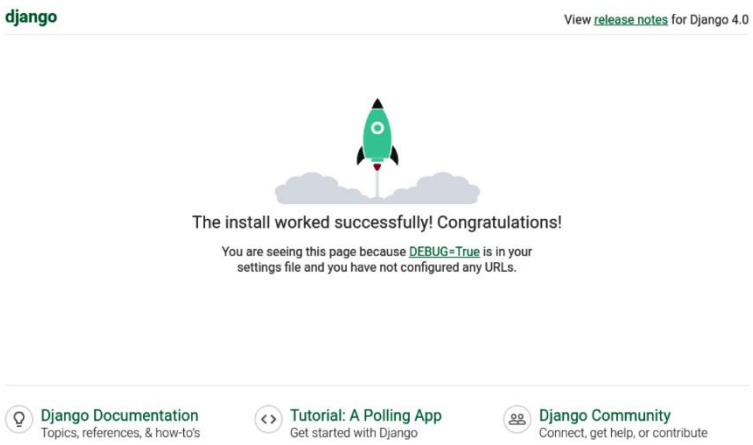
Chapter 01: Creating a Django project

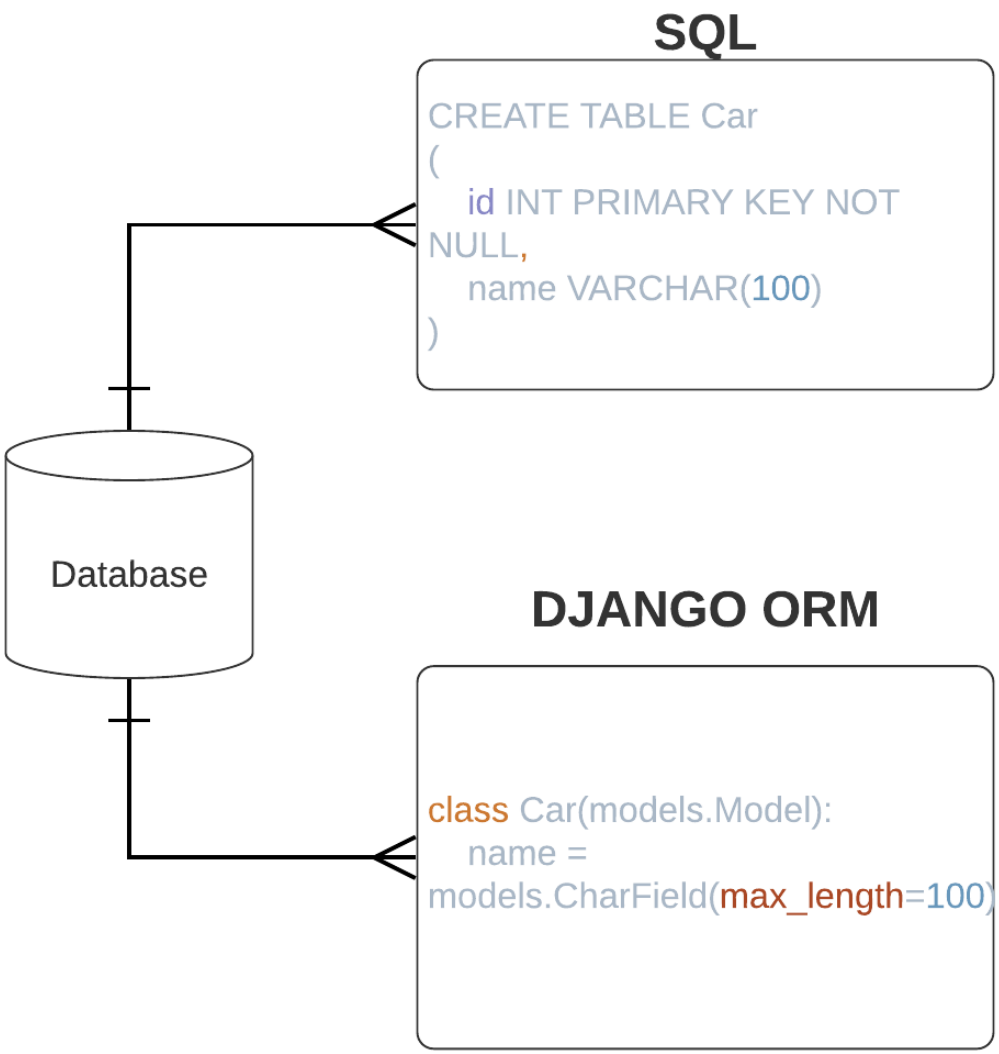


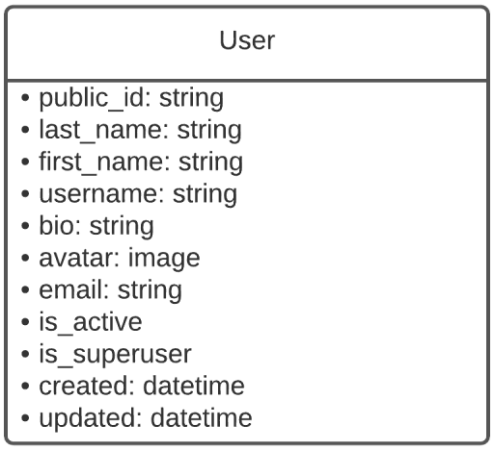


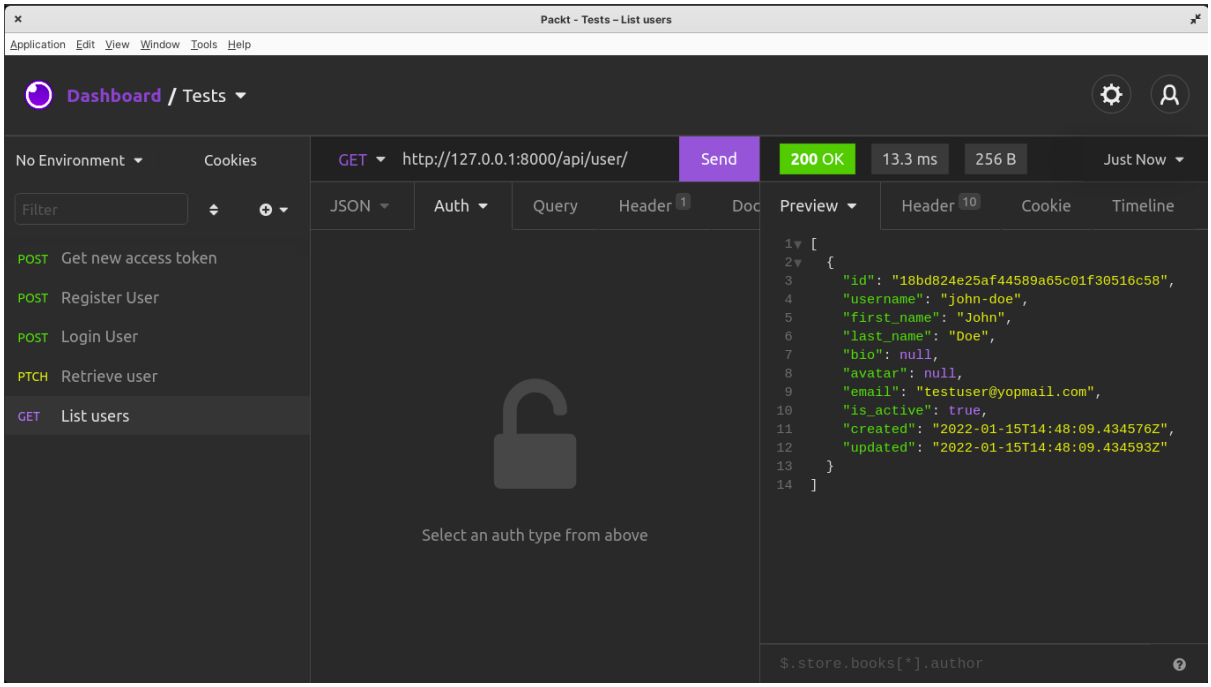

```
(venv) koladev@koladev123xxx:~/projects/django-api$ ls
CoreRoot  manage.py  venv
```

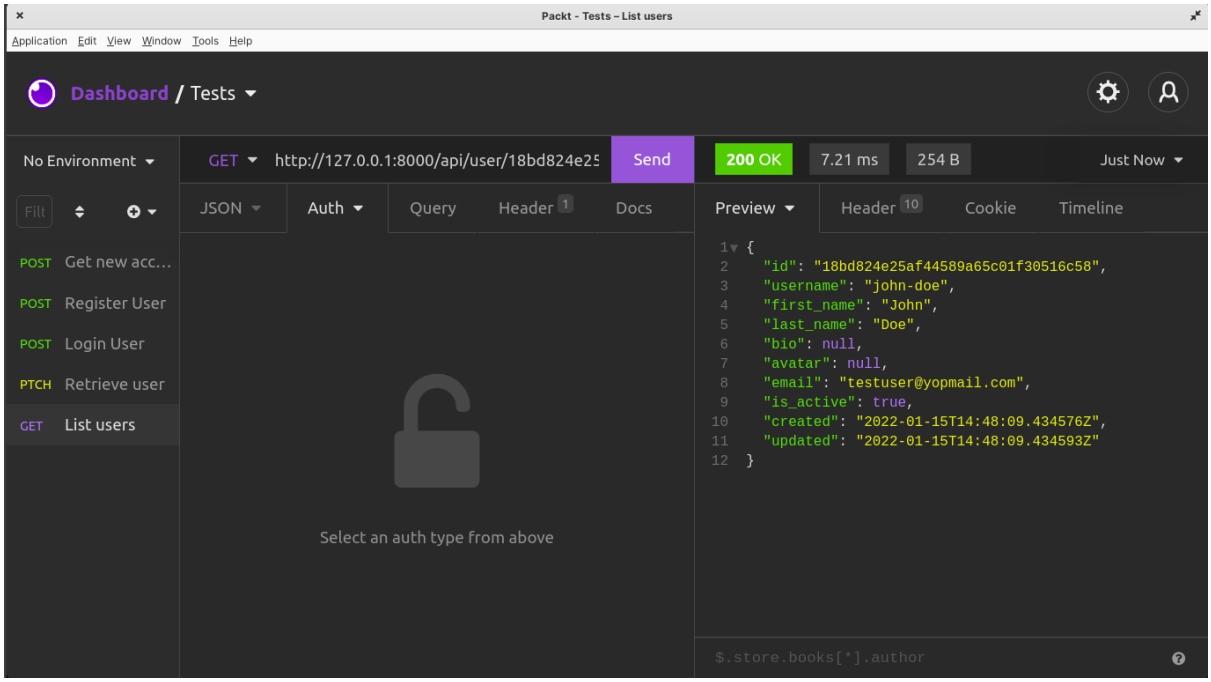


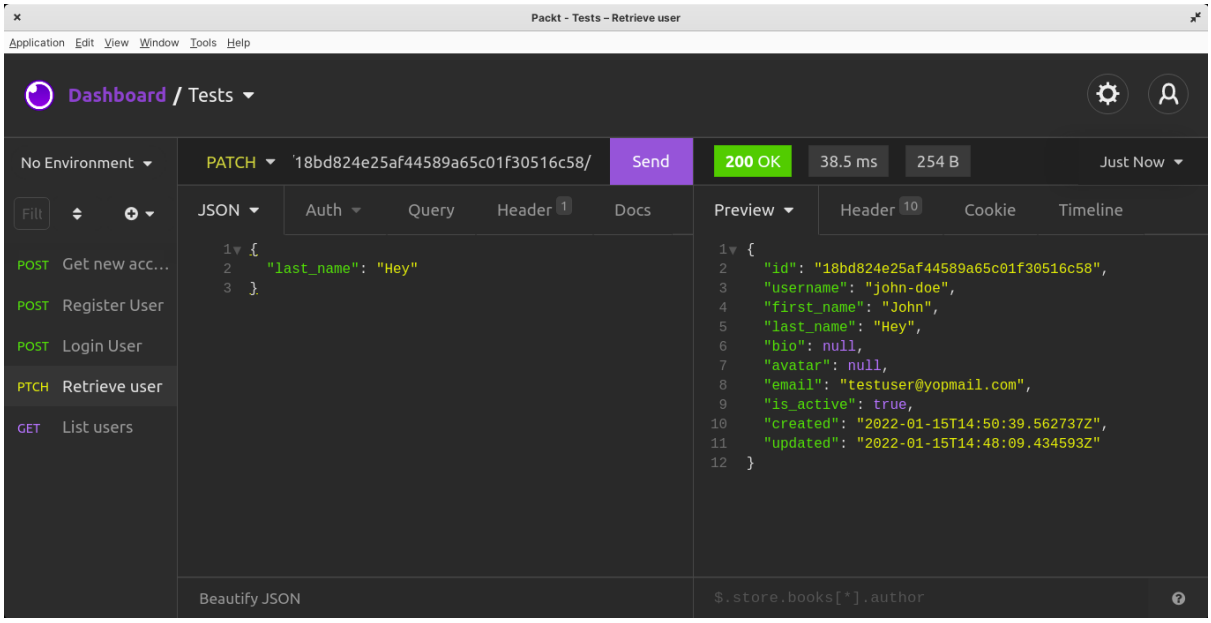
Chapter 02: Authentication and Authorization Using JWTs

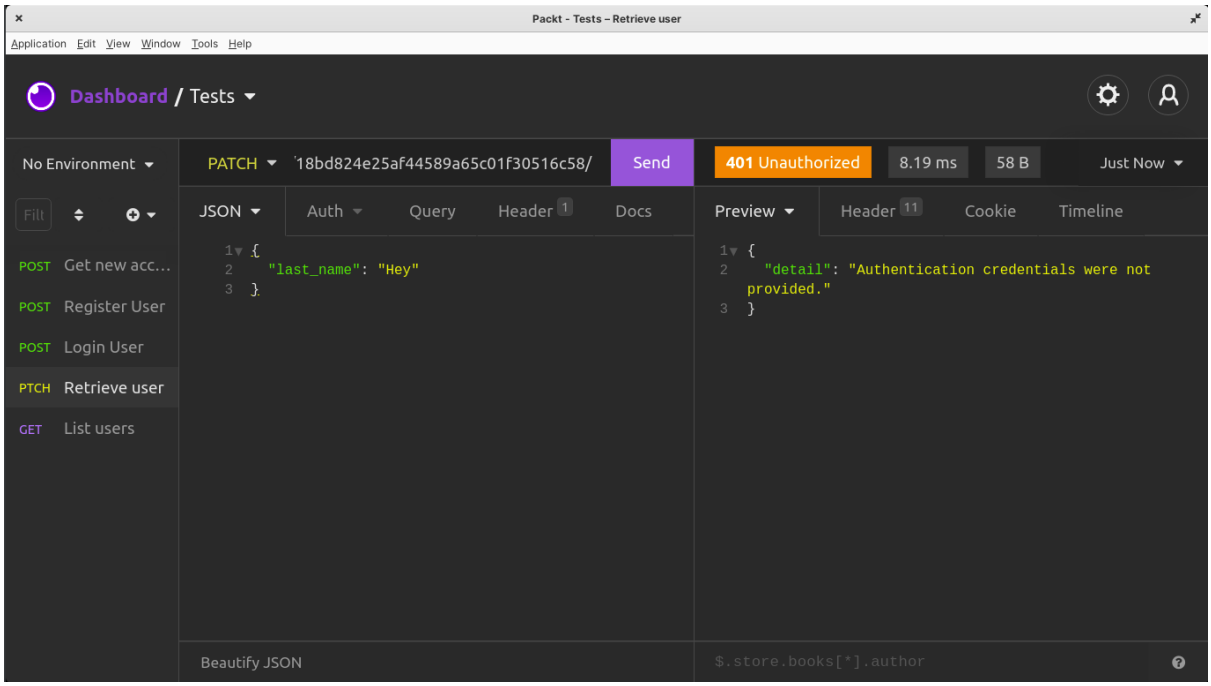


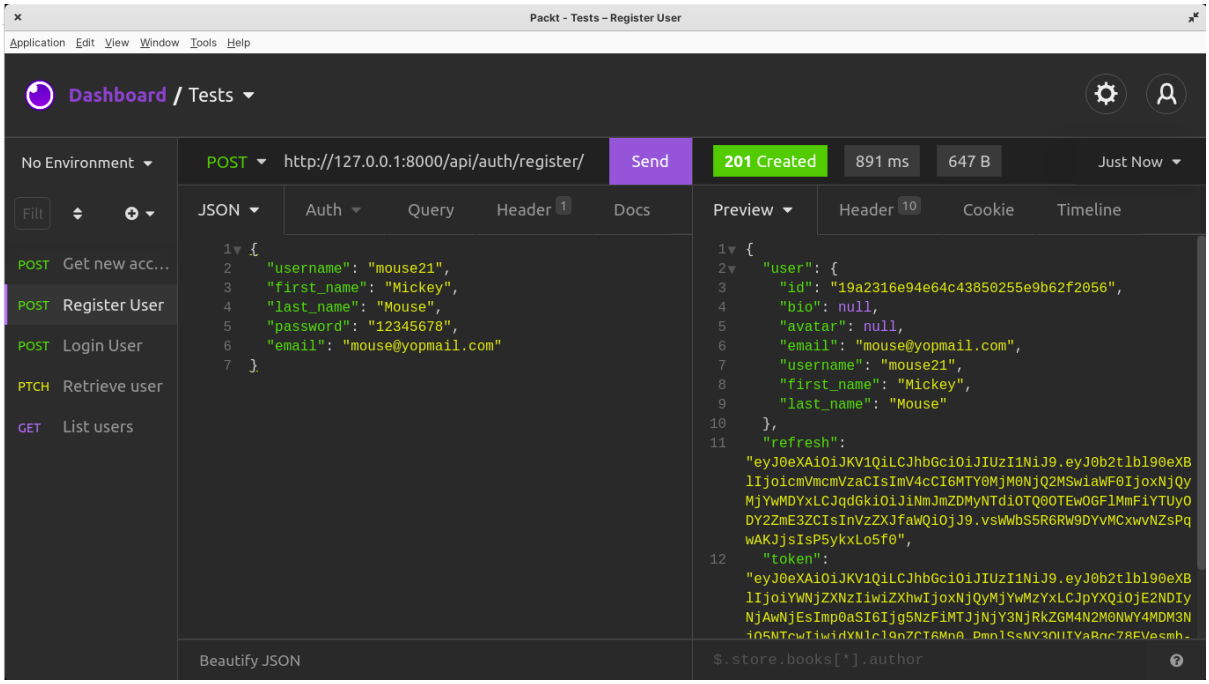


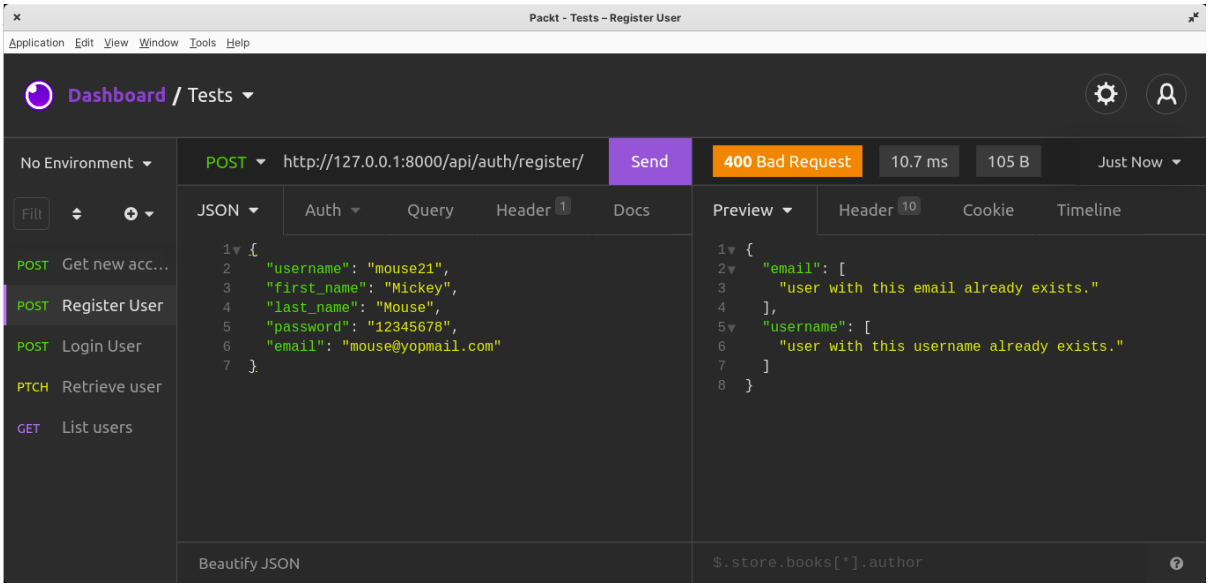

Packt - Tests – List users
Application Edit View Window Tools Help
Dashboard / Tests
No Environment
Cookies
GET http://127.0.0.1:8000/api/user/
Send
200 OK
13.3 ms
256 B
Just Now
Filter
JSON
Auth
Query
Header 1
Doc
Preview
Header 10
Cookie
Timeline
POST Get new access token
POST Register User
POST Login User
PTCH Retrieve user
GET List users
Select an auth type from above
$.store.books[*].author

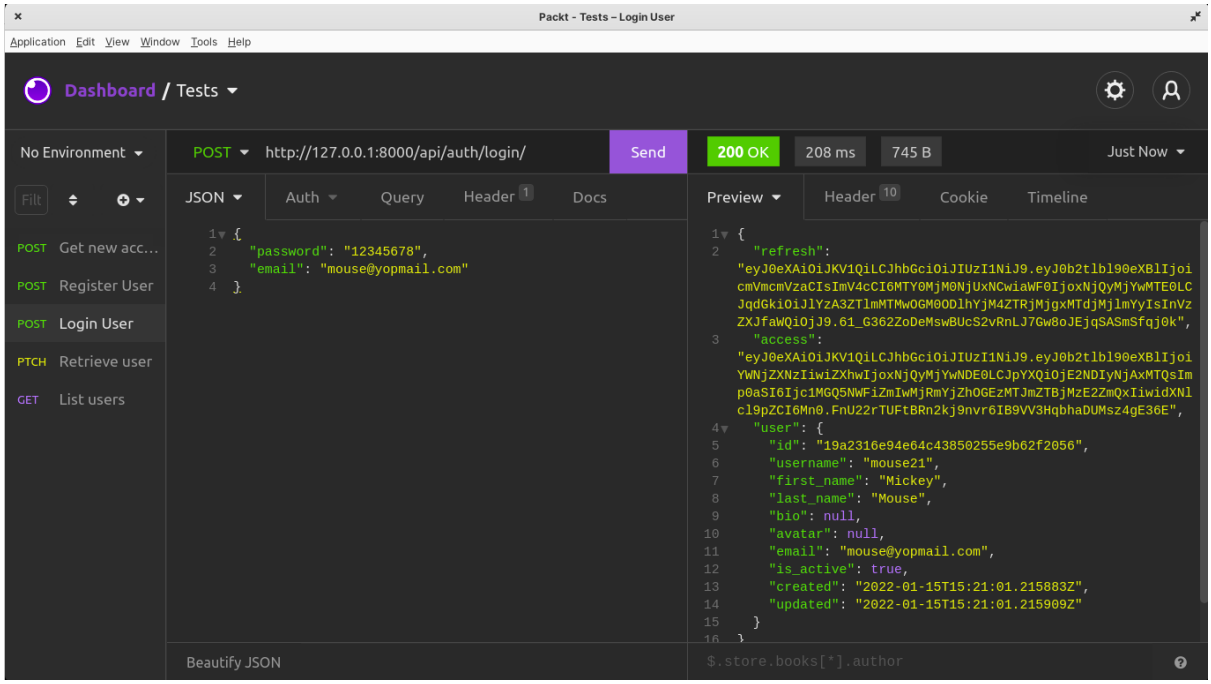

Packt - Tests – List users
Application Edit View Window Tools Help
Dashboard / Tests
No Environment
GET http://127.0.0.1:8000/api/user/18bd824e25
Send
200 OK
7.21 ms
254 B
Just Now
Filt
JSON
Auth
Query
Header 1
Docs
Preview
Header 10
Cookie
Timeline
POST Get new acc...
POST Register User
POST Login User
PTCH Retrieve user
GET List users
Select an auth type from above
$.store.books[*].author

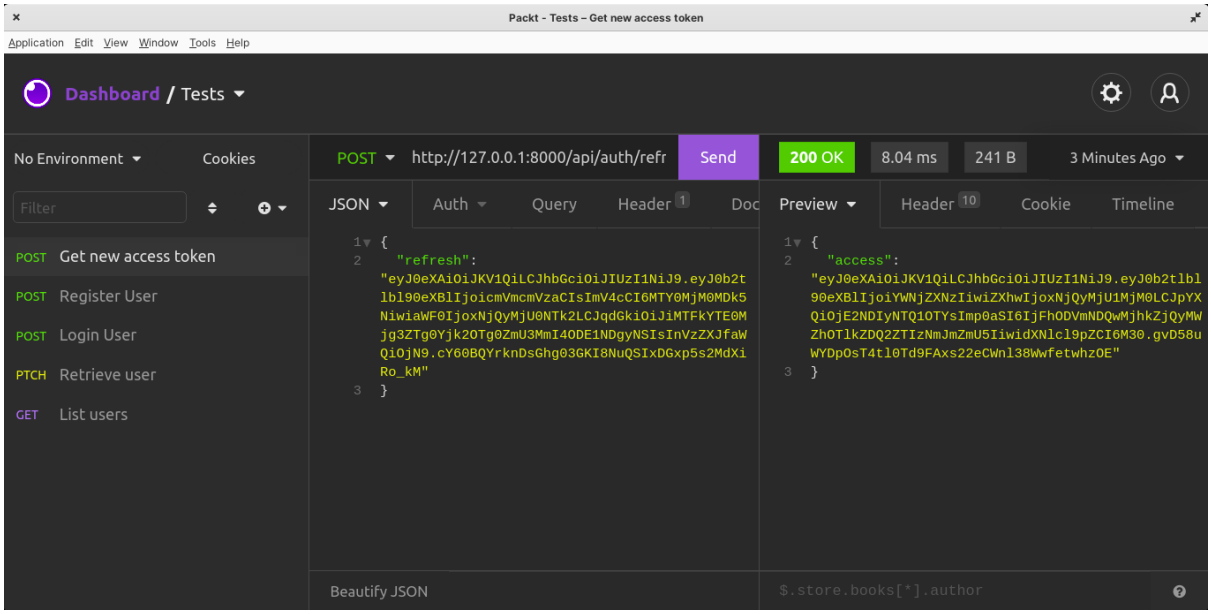

Packt - Tests – Retrieve user
Application Edit View Window Tools Help
Dashboard / Tests
No Environment
PATCH
'18bd824e25af44589a65c01f30516c58/
Send
200 OK
38.5 ms
254 B
Just Now
POST Get new acc...
POST Register User
POST Login User
PTCH Retrieve user
GET List users
JSON
Auth
Query
Header 1
Docs
Preview
Header 10
Cookie
Timeline
{
"last_name": "Hey"
}
{
"id": "18bd824e25af44589a65c01f30516c58",
"username": "john-doe",
"first_name": "John",
"last_name": "Hey",
"bio": null,
"avatar": null,
"email": "testuser@yopmail.com",
"is_active": true,
"created": "2022-01-15T14:50:39.562737Z",
"updated": "2022-01-15T14:48:09.434593Z"
}
Beautify JSON
$.store.books[*].author


Packt - Tests – Retrieve user
Application Edit View Window Tools Help
Dashboard / Tests
No Environment
PATCH
'18bd824e25af44589a65c01f30516c58/
Send
401 Unauthorized
8.19 ms
58 B
Just Now
POST Get new acc...
POST Register User
POST Login User
PTCH Retrieve user
GET List users
JSON
Auth
Query
Header 1
Docs
Preview
Header 11
Cookie
Timeline
{
"last_name": "Hey"
}
{
"detail": "Authentication credentials were not provided."
}
Beautify JSON
$.store.books[*].author

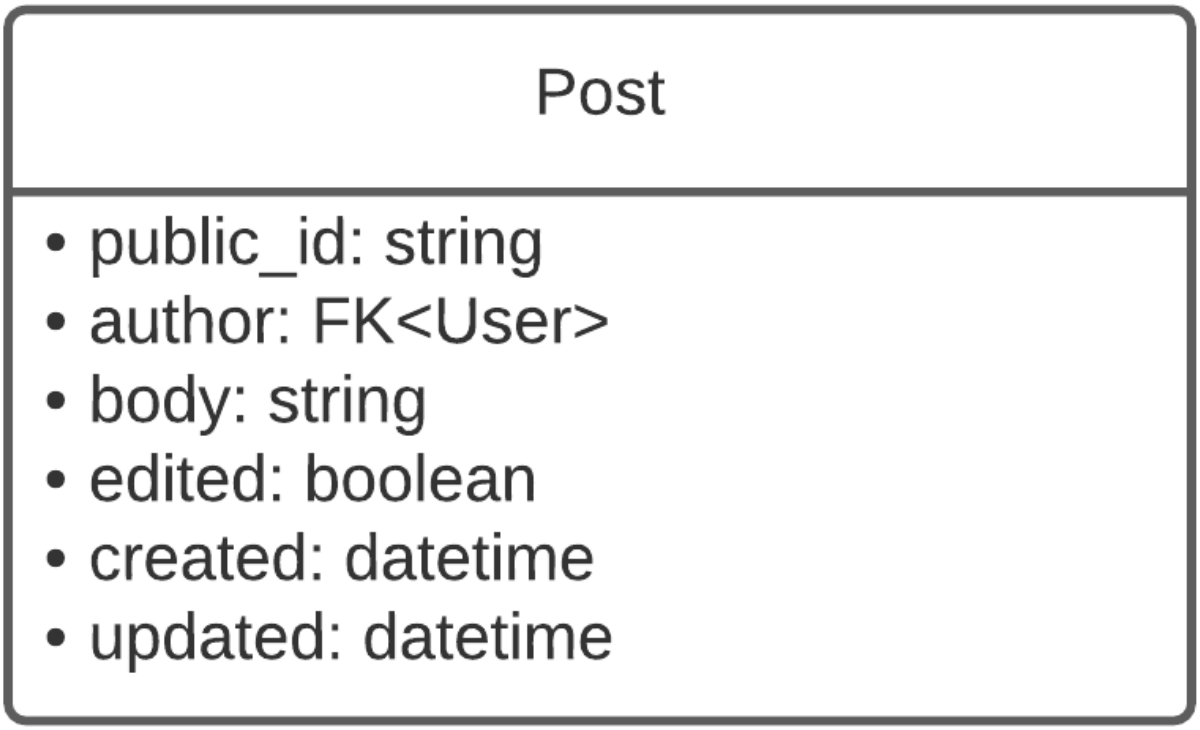

Packt - Tests – Register User
Application Edit View Window Tools Help
Dashboard / Tests
No Environment
POST http://127.0.0.1:8000/api/auth/register/
Send
201 Created
891 ms
647 B
Just Now
JSON Auth Query Header 1 Docs
Preview Header 10 Cookie Timeline
POST Get new acc...
POST Register User
POST Login User
PTCH Retrieve user
GET List users
{
"username": "mouse21",
"first_name": "Mickey",
"last_name": "Mouse",
"password": "12345678",
"email": "mouse@yopmail.com"
}
{
"user": {
"id": "19a2316e94e64c43850255e9b62f2056",
"bio": null,
"avatar": null,
"email": "mouse@yopmail.com",
"username": "mouse21",
"first_name": "Mickey",
"last_name": "Mouse"
},
"refresh":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ0b2tlbl90eXBlIjoicmVmcmVzaCIsImV4cCI6MTY0MjM0NjQ2MSwiaWF0IjoxNjQyMjYwMDYxLCJqdGkiOiJiNmJmZDMyNTdiOTQ0OTEwOGFlMmFiYTUyODY2ZmE3ZCIsInVzZXJfaWQiOjJ9.vsWWbS5R6RW9DYvMCxwvNZsPqwAKJjsIsP5ykxLo5f0",
"token":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ0b2tlbl90eXBlIjoiYWNjZXNzIiwiZXhwIjoxNjQyMjYwMzYxLCJpYXQiOjE2NDIyNjAwNjEsImp0aSI6Ijg5NzFiMTJjNjY3NjRkZGM4N2M0NWY4MDM3NjQ5NTcwIiwidXNlcl9pZCI6Mn0.PmplSsNY3QUIYaBqc78EVesmb-
Beautify JSON
$.store.books[*].author

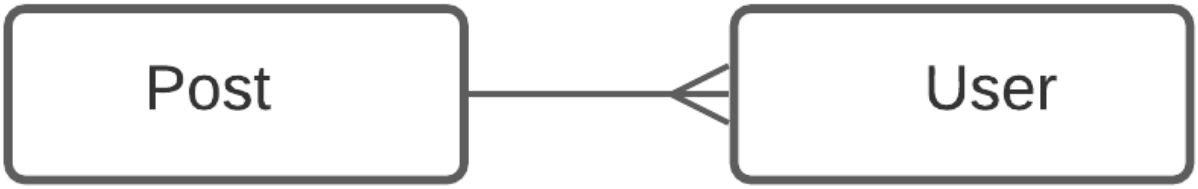

Packt - Tests – Register User
Application Edit View Window Tools Help
Dashboard / Tests
No Environment
POST http://127.0.0.1:8000/api/auth/register/
Send
400 Bad Request
10.7 ms
105 B
Just Now
JSON Auth Query Header 1 Docs
Preview Header 10 Cookie Timeline
POST Get new acc...
POST Register User
POST Login User
PTCH Retrieve user
GET List users
{
"username": "mouse21",
"first_name": "Mickey",
"last_name": "Mouse",
"password": "12345678",
"email": "mouse@yopmail.com"
}
{
"email": [
"user with this email already exists."
],
"username": [
"user with this username already exists."
]
}
Beautify JSON
$.store.books[*].author

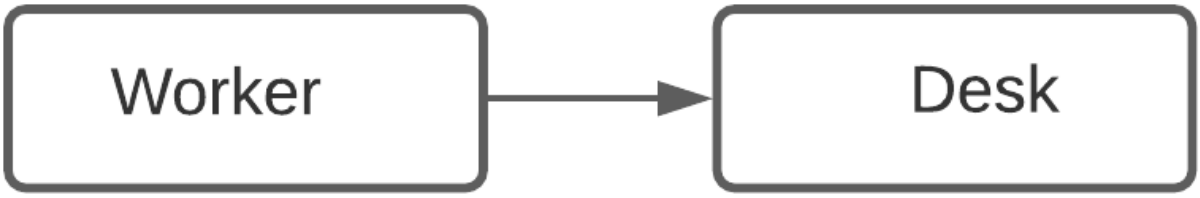

Packt - Tests – Login User
Application Edit View Window Tools Help
Dashboard / Tests
No Environment
POST http://127.0.0.1:8000/api/auth/login/
Send
200 OK 208 ms 745 B Just Now
JSON Auth Query Header 1 Docs
Preview Header 10 Cookie Timeline
POST Get new acc...
POST Register User
POST Login User
PTCH Retrieve user
GET List users
{
"password": "12345678",
"email": "mouse@yopmail.com"
}
{
"refresh":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ0b2tlbl90eXBlIjoicmVmcmVzaCIsImV4cCI6MTY0MjM0NjUxNCwiaWF0IjoxNjQyMjYwMTE0LCJqdGkiOiJlYzA3ZTlmMTMwOGM0ODlhYjM4ZTRjMjgxMTdjMjlmYyIsInVzZXJfaWQiOjJ9.61_G362ZoDeMswBUcS2vRnLJ7Gw8oJEjqSASmSfqj0k",
"access":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ0b2tlbl90eXBlIjoiYWNjZXNzIiwiZXhwIjoxNjQyMjYwNDE0LCJpYXQiOjE2NDIyNjAxMTQsImp0aSI6Ijc1MGQ5NWFiZmIwMjRmYjZhOGEzMTJmZTBjMzE2ZmQxIiwidXNlcl9pZCI6Mn0.FnU22rTUFtBRn2kj9nvr6IB9VV3HqbhaDUMsz4gE36E",
"user": {
"id": "19a2316e94e64c43850255e9b62f2056",
"username": "mouse21",
"first_name": "Mickey",
"last_name": "Mouse",
"bio": null,
"avatar": null,
"email": "mouse@yopmail.com",
"is_active": true,
"created": "2022-01-15T15:21:01.215883Z",
"updated": "2022-01-15T15:21:01.215909Z"
}
}
Beautify JSON
$.store.books[*].author

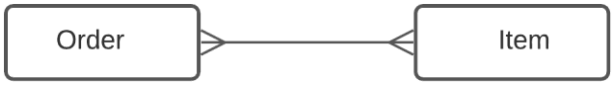

Packt - Tests – Get new access token
Application Edit View Window Tools Help
Dashboard / Tests
No Environment Cookies
POST http://127.0.0.1:8000/api/auth/refr
Send
200 OK 8.04 ms 241 B 3 Minutes Ago
JSON Auth Query Header 1 Doc
Preview Header 10 Cookie Timeline
POST Get new access token
POST Register User
POST Login User
PTCH Retrieve user
GET List users
{
"refresh":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ0b2tlbl90eXBlIjoicmVmcmVzaCIsImV4cCI6MTY0MjM0MDk5NiwiaWF0IjoxNjQyMjU0NTk2LCJqdGkiOiJiMTFkYTE0Mjg3ZTg0Yjk2OTg0ZmU3MmI4ODE1NDgyNSIsInVzZXJfaWQiOjN9.cY60BQYrknDsGhg03GKI8NuQSIxDGxp5s2MdXiRo_kM"
}
{
"access":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ0b2tlbl90eXBlIjoiYWNjZXNzIiwiZXhwIjoxNjQyMjU1MjM0LCJpYXQiOjE2NDIyNTQ1OTYsImp0aSI6IjFhODVmNDQwMjhkZjQyMWZhOTlkZDQ2ZTIzNmJmZmU5IiwidXNlcl9pZCI6M30.gvD58uWYDpOsT4tl0Td9FAxs22eCWnl38WwfetwhzOE"
}
Beautify JSON
$.store.books[*].author

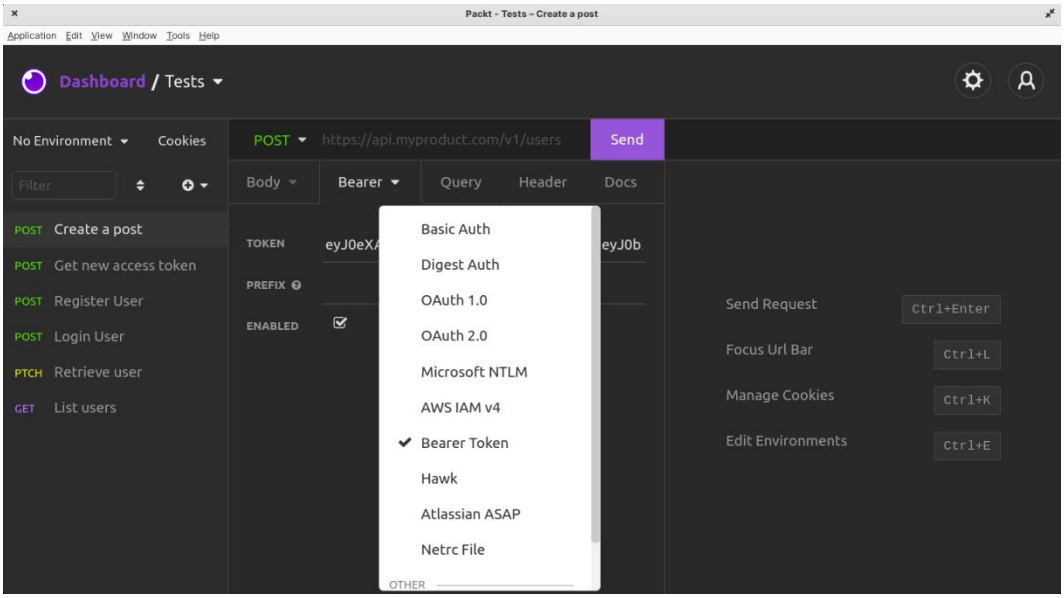
Chapter 03: Social Media Post Management

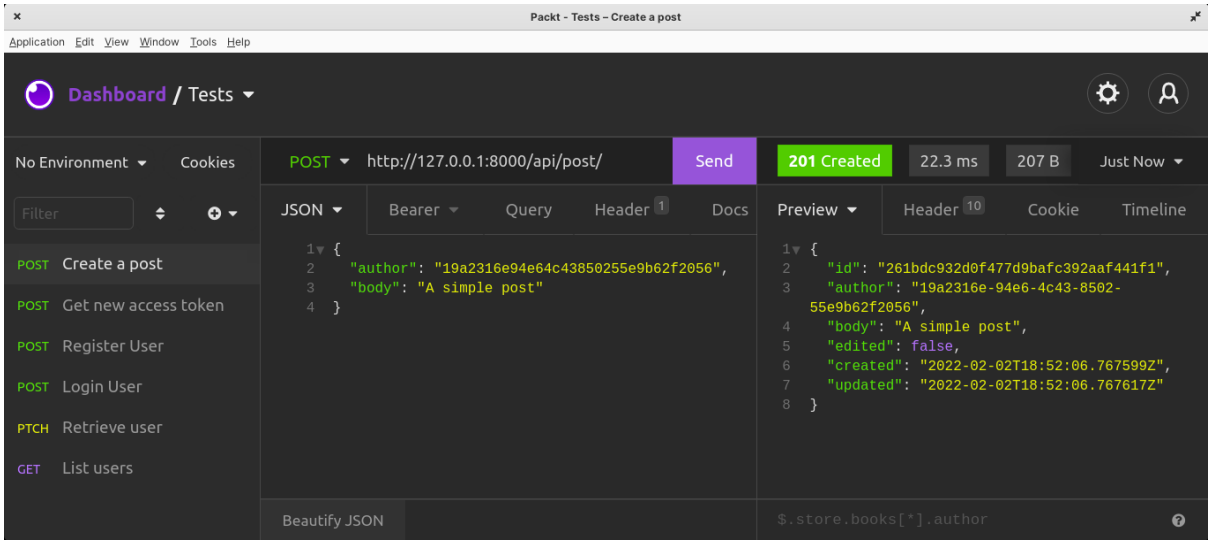


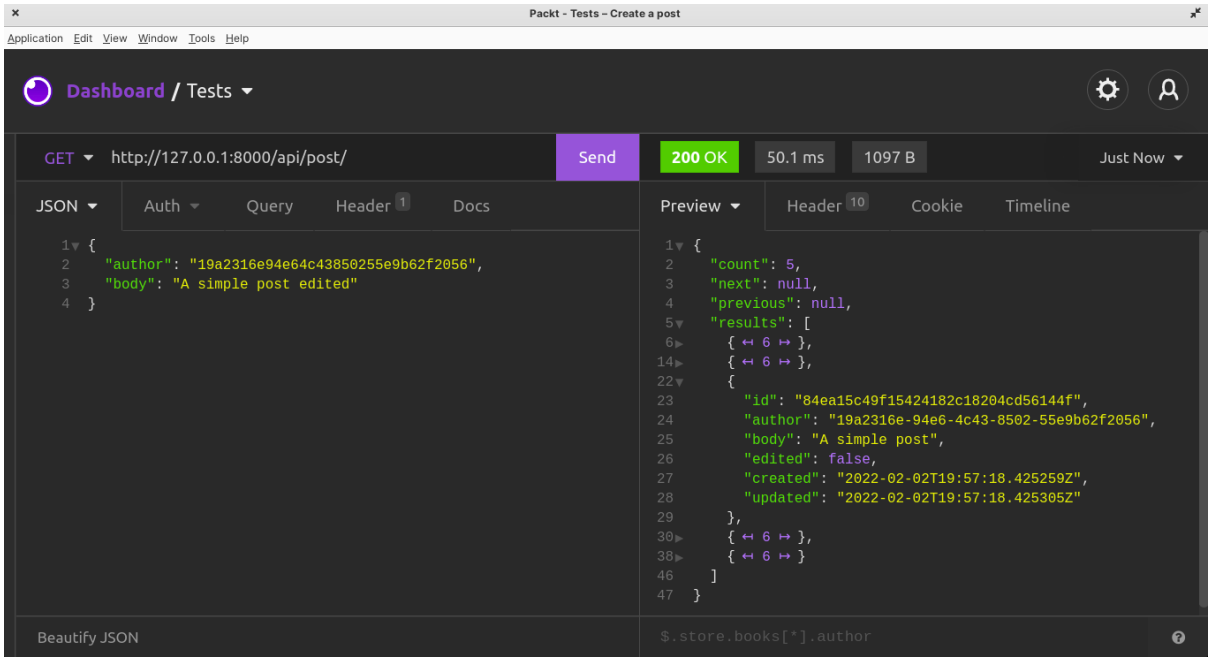


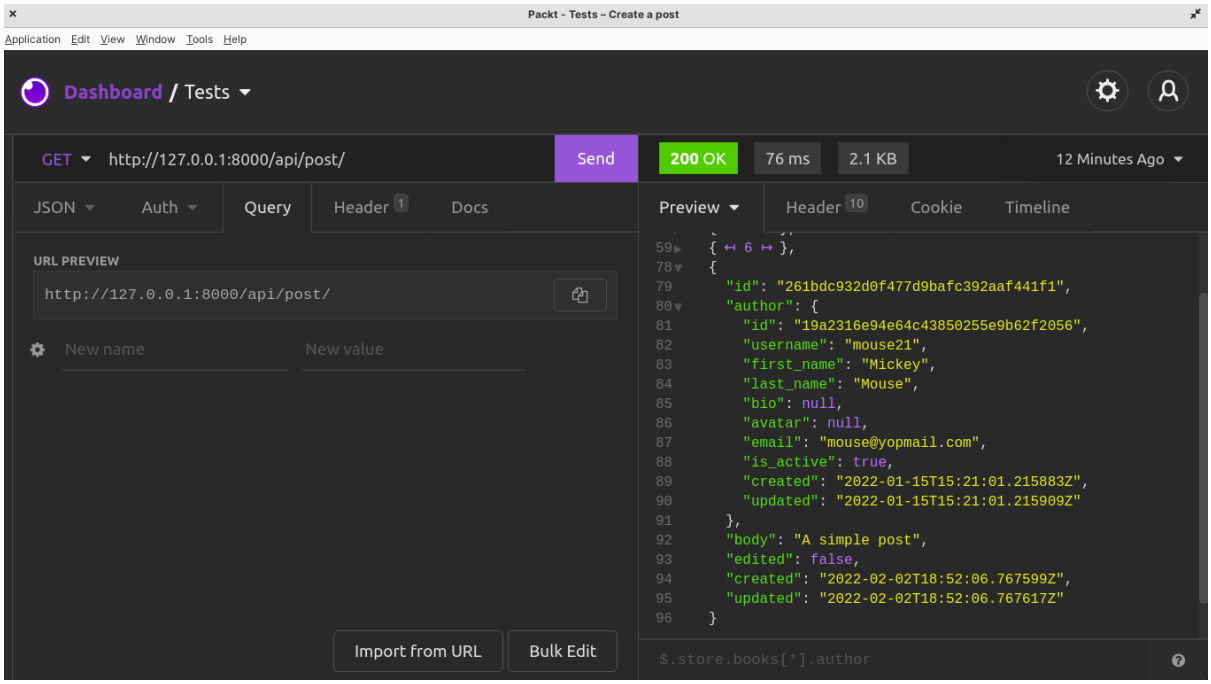


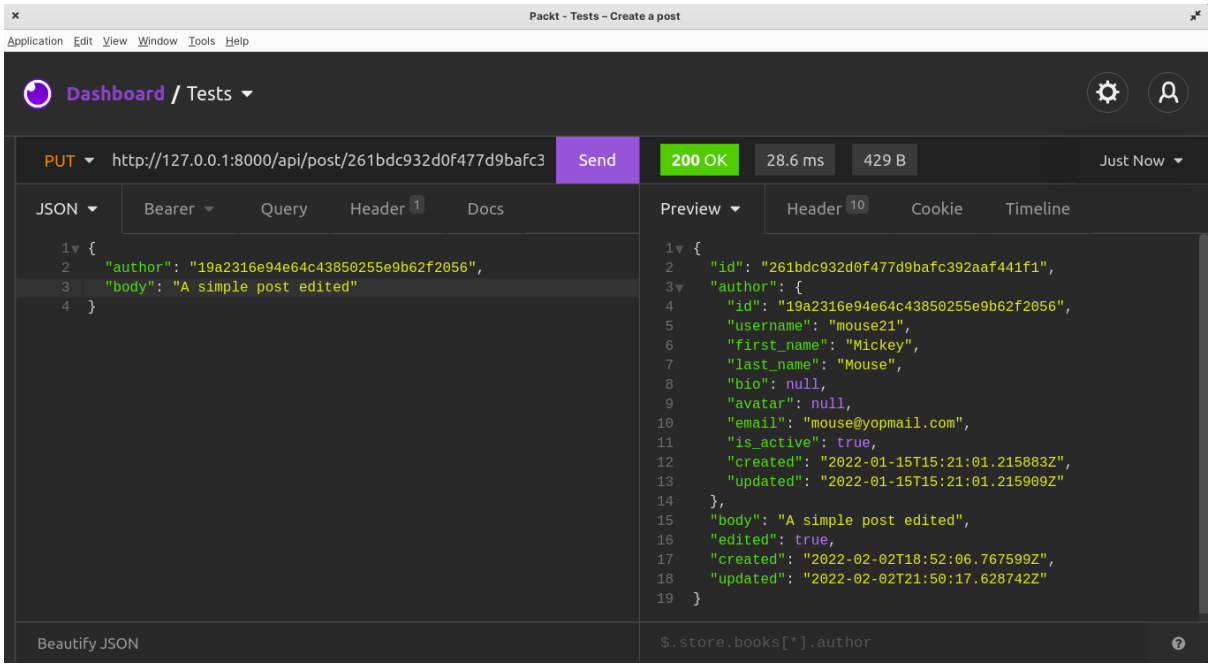


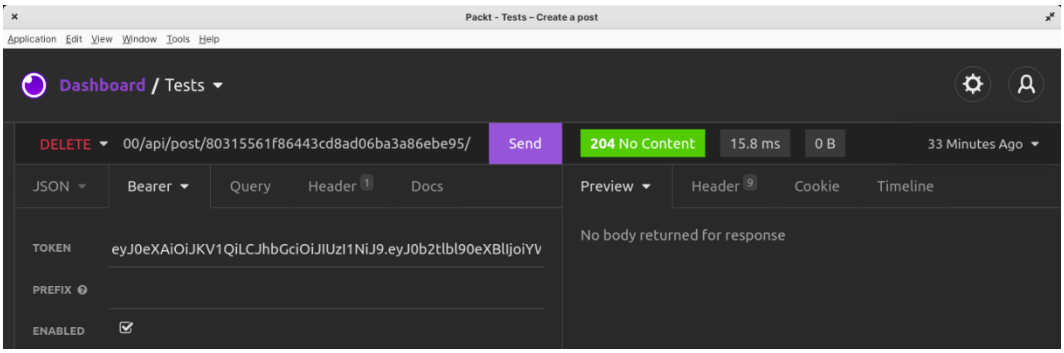

Packt - Tests – Create a post
Application Edit View Window Tools Help
Dashboard / Tests
No Environment
Cookies
POST https://api.myproduct.com/v1/users
Send
Filter
Body
Bearer
Query
Header
Docs
POST Create a post
POST Get new access token
POST Register User
POST Login User
PTCH Retrieve user
GET List users
TOKEN
eyJ0eXA
eyJ0b
PREFIX
ENABLED
Basic Auth
Digest Auth
OAuth 1.0
OAuth 2.0
Microsoft NTLM
AWS IAM v4
Bearer Token
Hawk
Atlassian ASAP
Netrc File
OTHER
Send Request Ctrl+Enter
Focus Url Bar Ctrl+L
Manage Cookies Ctrl+K
Edit Environments Ctrl+E


Packt - Tests – Create a post
Application Edit View Window Tools Help
Dashboard / Tests
No Environment
Cookies
POST http://127.0.0.1:8000/api/post/
Send
201 Created
22.3 ms
207 B
Just Now
Filter
JSON
Bearer
Query
Header 1
Docs
Preview
Header 10
Cookie
Timeline
POST Create a post
POST Get new access token
POST Register User
POST Login User
PTCH Retrieve user
GET List users
{
"author": "19a2316e94e64c43850255e9b62f2056",
"body": "A simple post"
}
{
"id": "261bdc932d0f477d9bafc392aaf441f1",
"author": "19a2316e-94e6-4c43-8502-55e9b62f2056",
"body": "A simple post",
"edited": false,
"created": "2022-02-02T18:52:06.767599Z",
"updated": "2022-02-02T18:52:06.767617Z"
}
Beautify JSON
$.store.books[*].author


Packt - Tests – Create a post
Application Edit View Window Tools Help
Dashboard / Tests
GET http://127.0.0.1:8000/api/post/
Send
200 OK
50.1 ms
1097 B
Just Now
JSON Auth Query Header 1 Docs
Preview Header 10 Cookie Timeline
{
"author": "19a2316e94e64c43850255e9b62f2056",
"body": "A simple post edited"
}
{
"count": 5,
"next": null,
"previous": null,
"results": [
{ ↤ 6 ↦ },
{ ↤ 6 ↦ },
{
"id": "84ea15c49f15424182c18204cd56144f",
"author": "19a2316e-94e6-4c43-8502-55e9b62f2056",
"body": "A simple post",
"edited": false,
"created": "2022-02-02T19:57:18.425259Z",
"updated": "2022-02-02T19:57:18.425305Z"
},
{ ↤ 6 ↦ },
{ ↤ 6 ↦ }
]
}
Beautify JSON
$.store.books[*].author

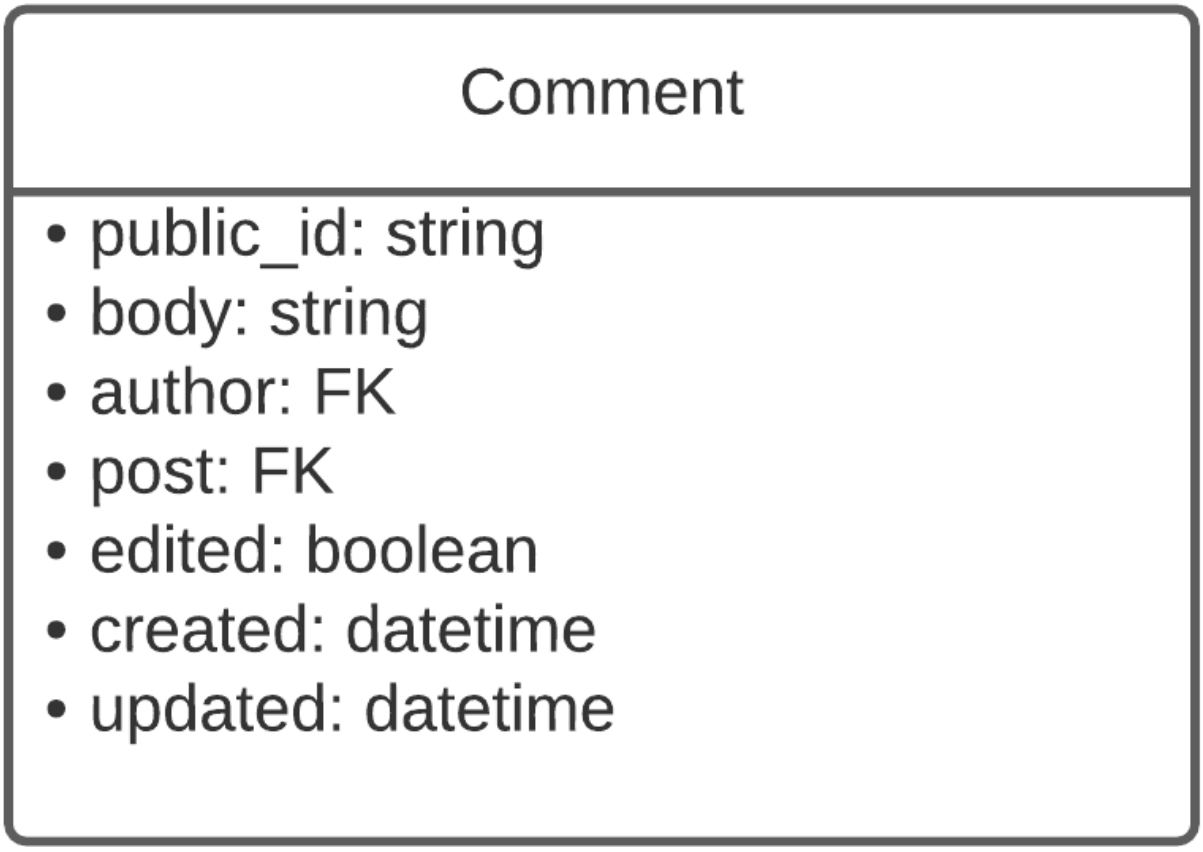

Packt - Tests – Create a post
Application Edit View Window Tools Help
Dashboard / Tests
GET http://127.0.0.1:8000/api/post/
Send
200 OK
76 ms
2.1 KB
12 Minutes Ago
JSON Auth Query Header 1 Docs
Preview Header 10 Cookie Timeline
URL PREVIEW
http://127.0.0.1:8000/api/post/
New name
New value
Import from URL
Bulk Edit
{ ↤ 6 ↦ },
{
"id": "261bdc932d0f477d9bafc392aaf441f1",
"author": {
"id": "19a2316e94e64c43850255e9b62f2056",
"username": "mouse21",
"first_name": "Mickey",
"last_name": "Mouse",
"bio": null,
"avatar": null,
"email": "mouse@yopmail.com",
"is_active": true,
"created": "2022-01-15T15:21:01.215883Z",
"updated": "2022-01-15T15:21:01.215909Z"
},
"body": "A simple post",
"edited": false,
"created": "2022-02-02T18:52:06.767599Z",
"updated": "2022-02-02T18:52:06.767617Z"
}
$.store.books[*].author

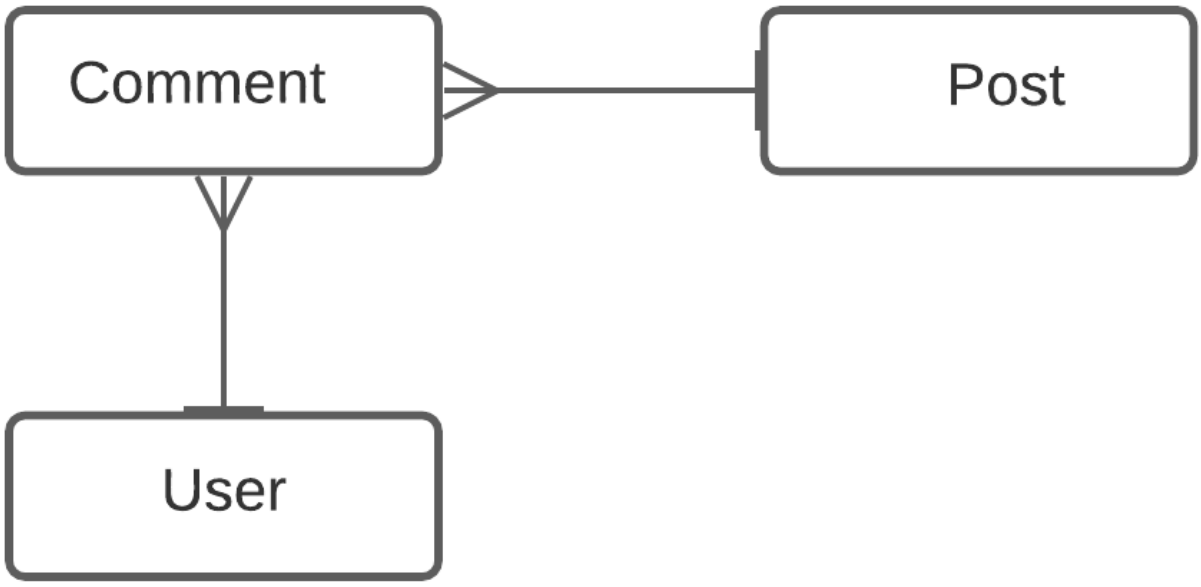


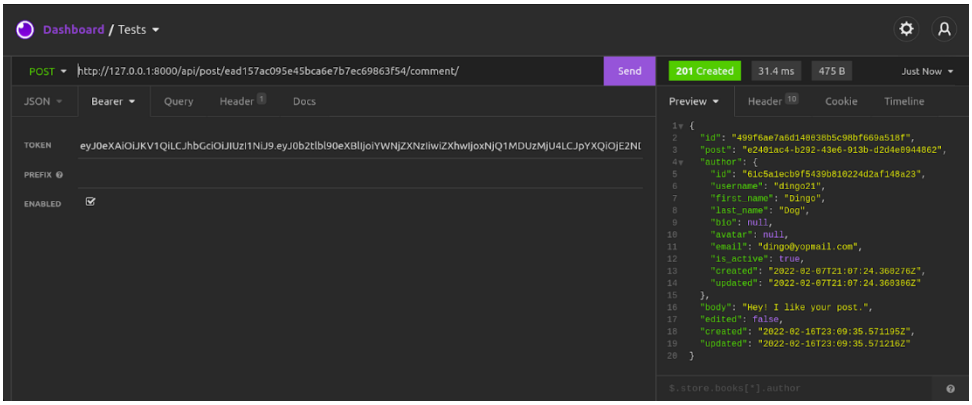


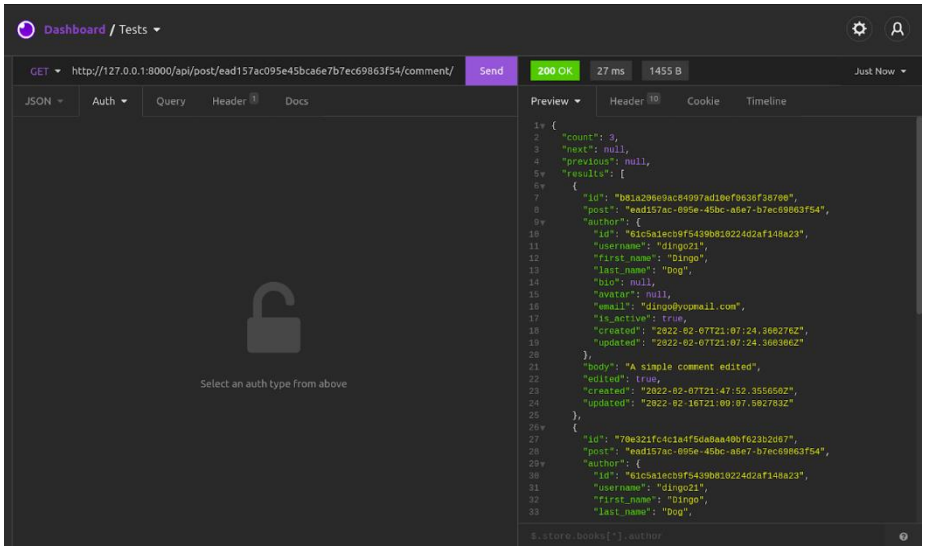
User
• public_id: string • last_name: string • first_name: string • username: string • bio: string • avatar: image • email: string • post_liked: m2m • is_active • is_superuser • created: datetime • updated: datetime

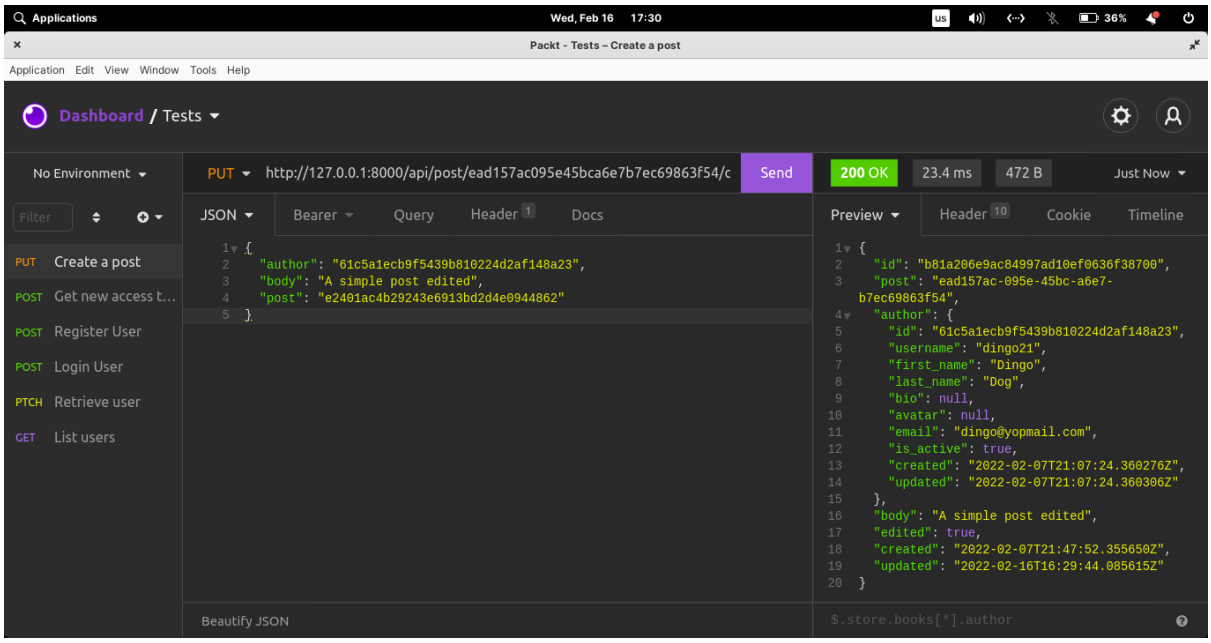
Chapter 04: Adding Comments to Social Media Posts

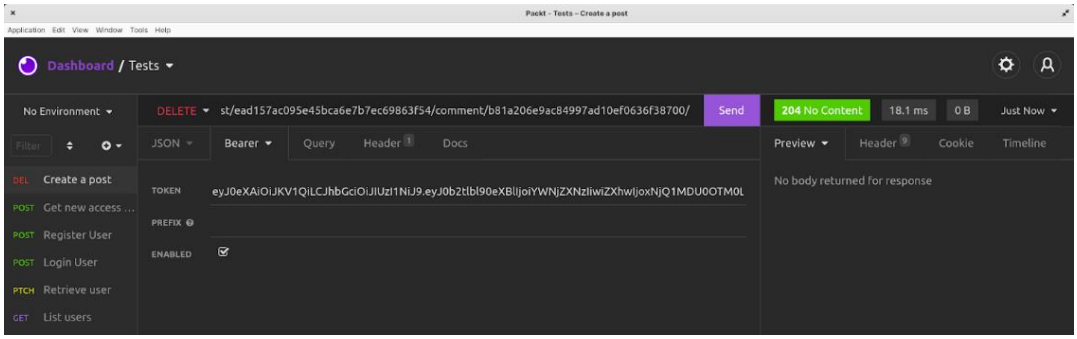




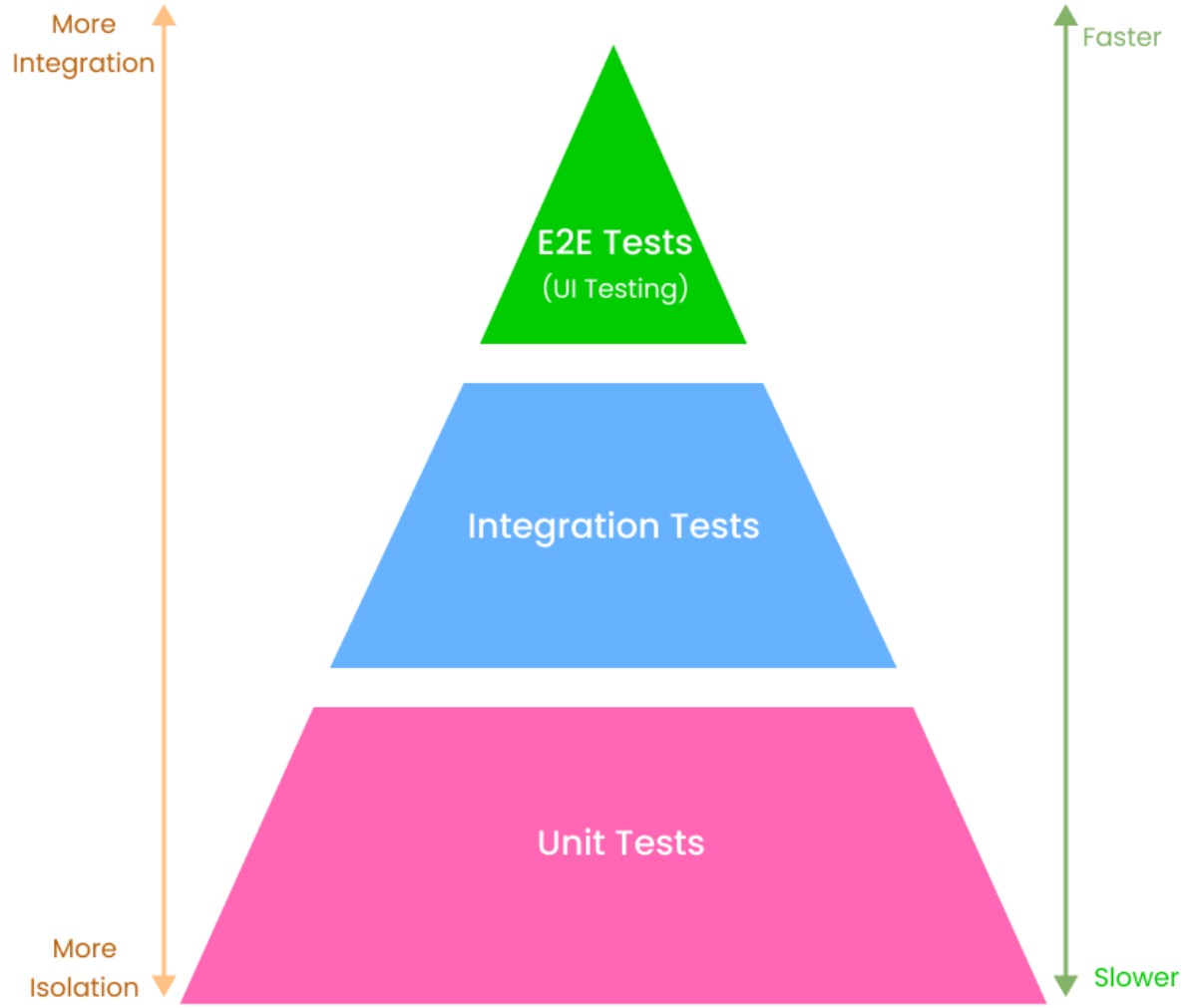

Dashboard / Tests
POST
http://127.0.0.1:8000/api/post/ead157ac095e45bca6e7b7ec69863f54/comment/
Send
201 Created
31.4 ms
475 B
Just Now
JSON
Bearer
Query
Header
Docs
Preview
Header
Cookie
Timeline
TOKEN
PREFIX
ENABLED
{
"id": "499f6ae7a6d140838b5c98bf669a518f",
"post": "e2401ac4-b292-43e6-913b-d2d4e0944862",
"author": {
"id": "61c5a1ecb9f5439b810224d2af148a23",
"username": "dingo21",
"first_name": "Dingo",
"last_name": "Dog",
"bio": null,
"avatar": null,
"email": "dingo@yopmail.com",
"is_active": true,
"created": "2022-02-07T21:07:24.360276Z",
"updated": "2022-02-07T21:07:24.360306Z"
},
"body": "Hey! I like your post.",
"edited": false,
"created": "2022-02-16T23:09:35.571195Z",
"updated": "2022-02-16T23:09:35.571216Z"
}
$.store.books[*].author


Dashboard / Tests
GET
http://127.0.0.1:8000/api/post/ead157ac095e45bca6e7b7ec69863f54/comment/
Send
200 OK
27 ms
1455 B
Just Now
JSON
Auth
Query
Header
Docs
Preview
Header
Cookie
Timeline
Select an auth type from above
{
"count": 3,
"next": null,
"previous": null,
"results": [
{
"id": "b81a206e9ac84997ad10ef0636f38700",
"post": "ead157ac-095e-45bc-a6e7-b7ec69863f54",
"author": {
"id": "61c5a1ecb9f5439b810224d2af148a23",
"username": "dingo21",
"first_name": "Dingo",
"last_name": "Dog",
"bio": null,
"avatar": null,
"email": "dingo@yopmail.com",
"is_active": true,
"created": "2022-02-07T21:07:24.360276Z",
"updated": "2022-02-07T21:07:24.360306Z"
},
"body": "A simple comment edited",
"edited": true,
"created": "2022-02-07T21:47:52.355650Z",
"updated": "2022-02-16T21:09:07.582783Z"
},
{
"id": "70e321fc4c1a4f5da8aa40bf623b2d67",
"post": "ead157ac-095e-45bc-a6e7-b7ec69863f54",
"author": {
"id": "61c5a1ecb9f5439b810224d2af148a23",
"username": "dingo21",
"first_name": "Dingo",
"last_name": "Dog",
$.store.books[*].author


Applications
Wed, Feb 16 17:30
36%
Packt - Tests – Create a post
Application Edit View Window Tools Help
Dashboard / Tests
No Environment
PUT
http://127.0.0.1:8000/api/post/ead157ac095e45bca6e7b7ec69863f54/c
Send
200 OK
23.4 ms
472 B
Just Now
Filter
JSON
Bearer
Query
Header
Docs
Preview
Header
Cookie
Timeline
PUT Create a post
POST Get new access t...
POST Register User
POST Login User
PTCH Retrieve user
GET List users
{
"author": "61c5a1ecb9f5439b810224d2af148a23",
"body": "A simple post edited",
"post": "e2401ac4b29243e6913bd2d4e0944862"
}
{
"id": "b81a206e9ac84997ad10ef0636f38700",
"post": "ead157ac-095e-45bc-a6e7-b7ec69863f54",
"author": {
"id": "61c5a1ecb9f5439b810224d2af148a23",
"username": "dingo21",
"first_name": "Dingo",
"last_name": "Dog",
"bio": null,
"avatar": null,
"email": "dingo@yopmail.com",
"is_active": true,
"created": "2022-02-07T21:07:24.360276Z",
"updated": "2022-02-07T21:07:24.360306Z"
},
"body": "A simple post edited",
"edited": true,
"created": "2022-02-07T21:47:52.355650Z",
"updated": "2022-02-16T16:29:44.085615Z"
}
Beautify JSON
$.store.books[*].author


Packt - Tests - Create a post
Application Edit View Window Tools Help
Dashboard / Tests
No Environment
DELETE
st/ead157ac095e45bca6e7b7ec69863f54/comment/b81a206e9ac84997ad10ef0636f38700/
Send
204 No Content
18.1 ms
0 B
Just Now
Filter
JSON
Bearer
Query
Header 1
Docs
Preview
Header 9
Cookie
Timeline
DEL Create a post
POST Get new access ...
POST Register User
POST Login User
PTCH Retrieve user
GET List users
TOKEN
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ0b2tlbl90eXBlIjoiYWNjZXNzIiwiZXhwIjoxNjQ1MDU0OTM0L
PREFIX
ENABLED
No body returned for response

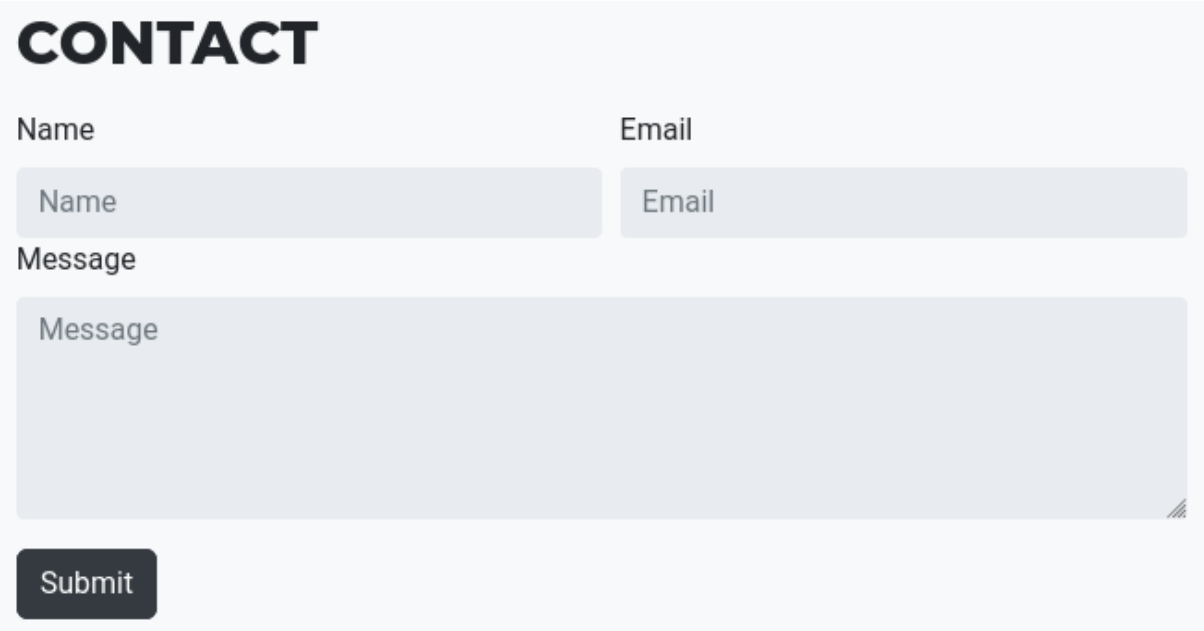
Chapter 05: Testing the REST API

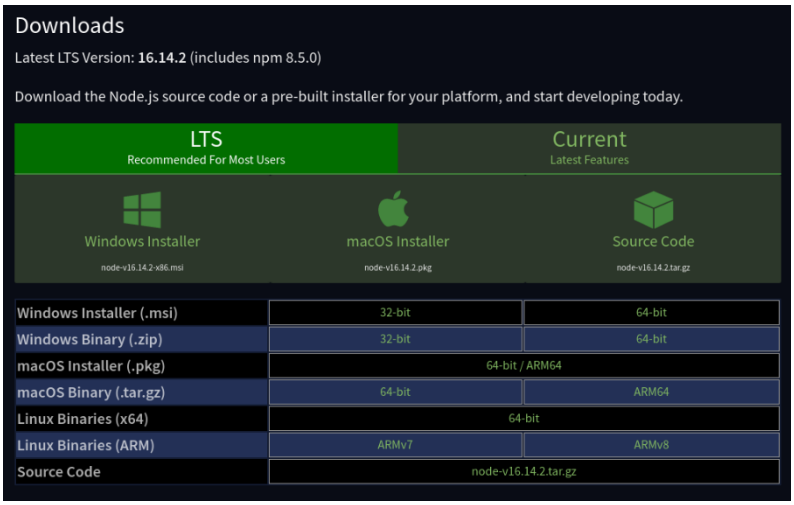


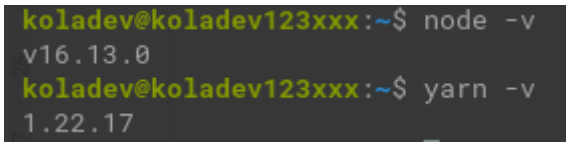

```
============================================================ test session starts =============================================================
platform linux -- Python 3.10.2, pytest-7.0.1, pluggy-1.0.0
django: settings: CoreRoot.settings (from ini)
rootdir: /home/koladev/PycharmProjects/Full-stack-Django-and-React, configfile: pytest.ini
plugins: django-4.5.2
collected 1 item

tests.py F                                                                                                                          [100%]

================================================================= FAILURES ==================================================================
_____________________________________________________________ test_sum ______________________________________________________________

    def test_sum():
>       assert add(1, 2) == 3
E       NameError: name 'add' is not defined

tests.py:4: NameError
========================================================== short test summary info ==========================================================
FAILED tests.py::test_sum - NameError: name 'add' is not defined
============================================================= 1 failed in 0.06s =============================================================
```

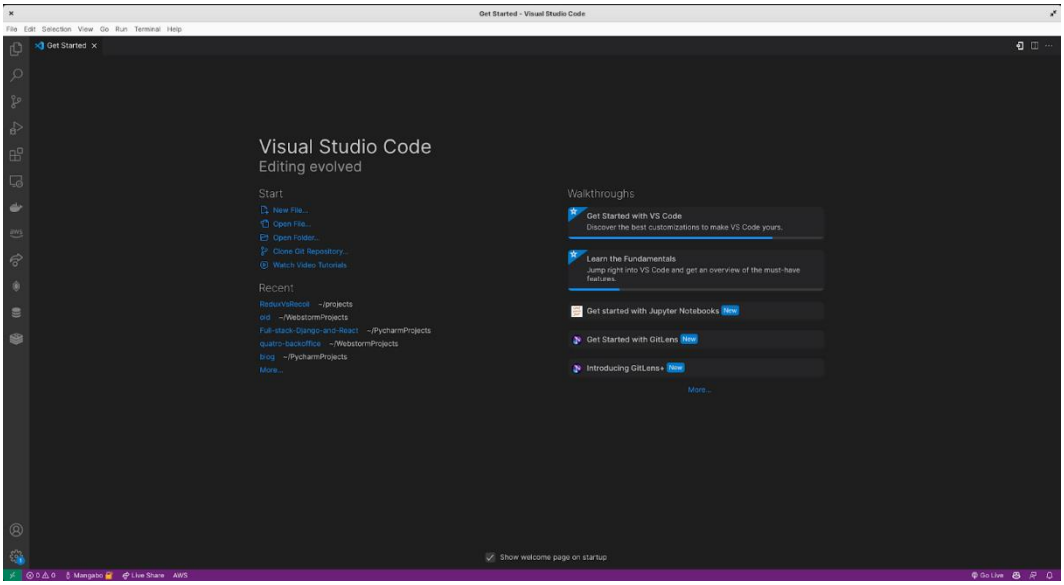
```
========== test session starts ===========
platform linux -- Python 3.10.2, pytest-7.0.1, pluggy-1.0.0
django: settings: CoreRoot.settings (from ini)
rootdir: /home/koladev/PycharmProjects/Full-stack-Django-and-React, configfile: pytest.ini
plugins: django-4.5.2
collected 1 item

tests.py .                          [100%]

=========== 1 passed in 0.01s ============
```

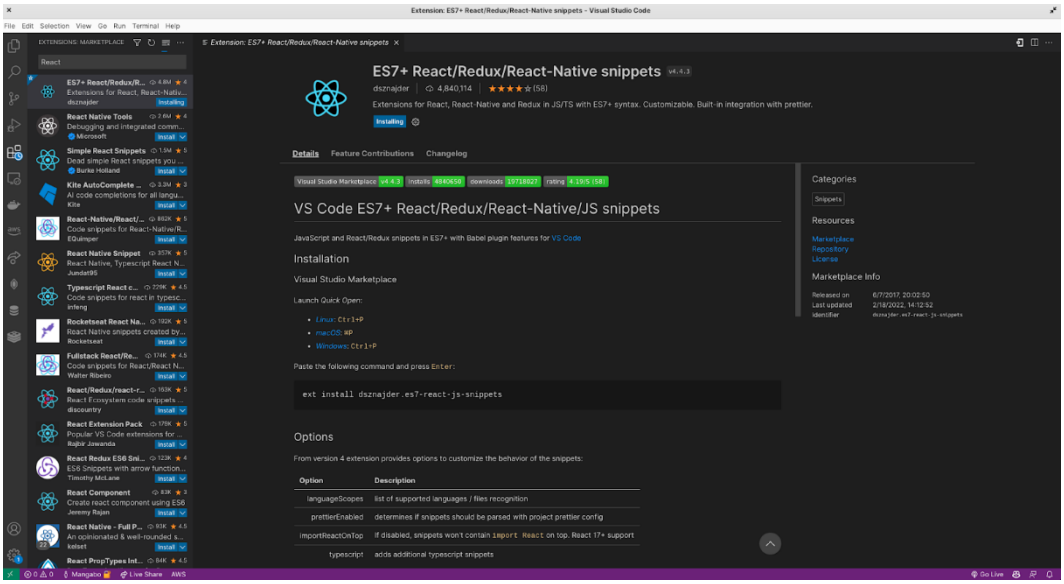
Chapter 06: Creating a Project with React

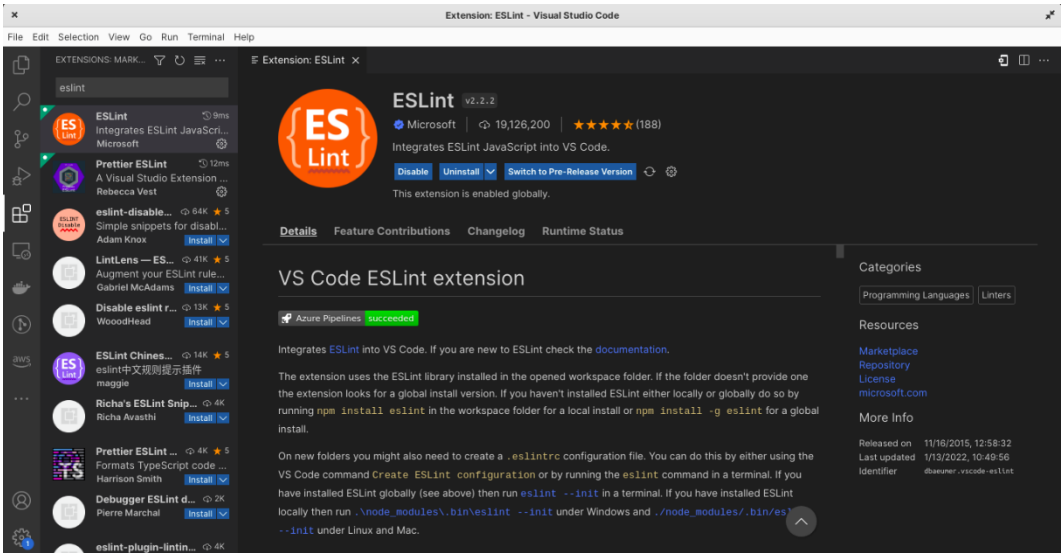


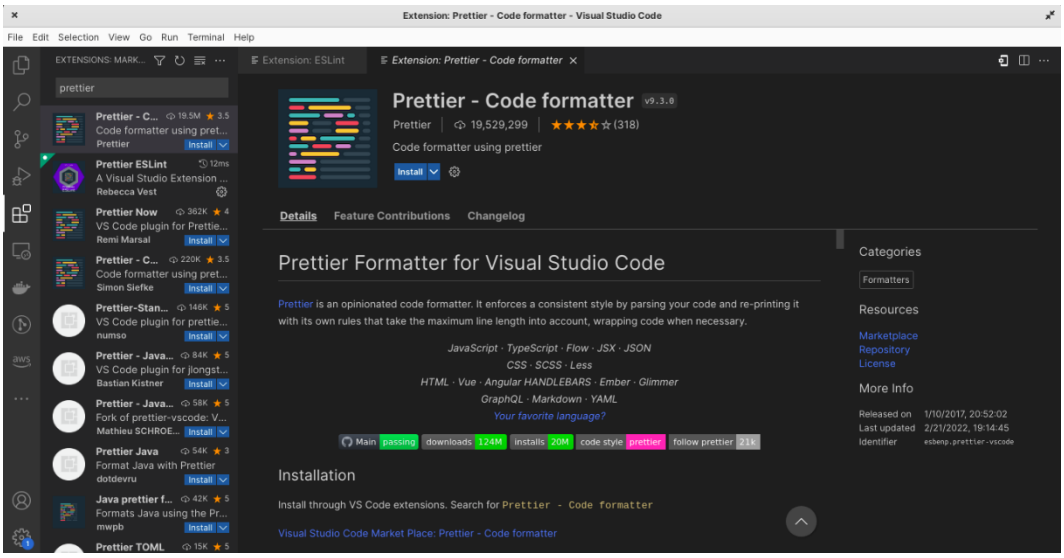


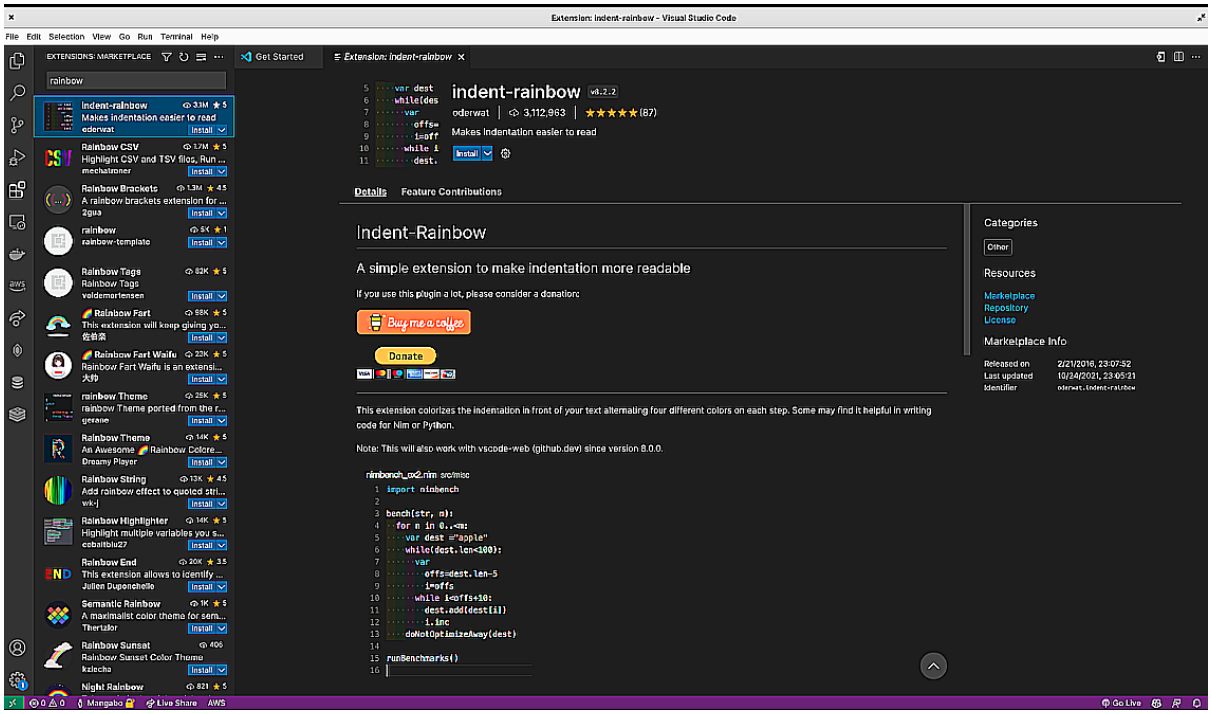



Get Started - Visual Studio Code
File Edit Selection View Go Run Terminal Help
Get Started
Visual Studio Code
Editing evolved
Start
New File...
Open File...
Open Folder...
Clone Git Repository...
Watch Video Tutorials
Recent
ReduxVsRecoil ~/projects
old ~/WebstormProjects
Full-stack-Django-and-React ~/PycharmProjects
quatro-backoffice ~/WebstormProjects
blog ~/PycharmProjects
More...
Walkthroughs
Get Started with VS Code
Discover the best customizations to make VS Code yours.
Learn the Fundamentals
Jump right into VS Code and get an overview of the must-have features.
Get started with Jupyter Notebooks New
Get Started with GitLens New
Introducing GitLens+ New
More...
Show welcome page on startup

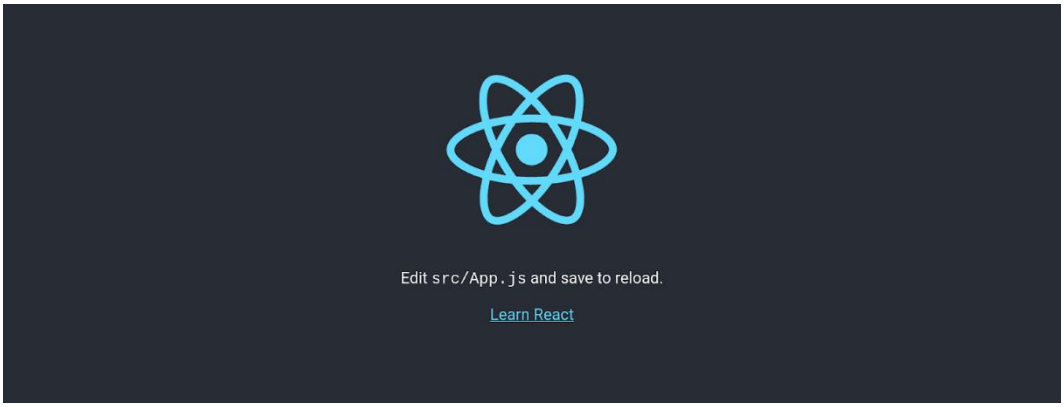

Extension: ES7+ React/Redux/React-Native snippets - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXTENSIONS: MARKETPLACE
React
Extension: ES7+ React/Redux/React-Native snippets
ES7+ React/Redux/React-Native snippets v4.4.3
dsznajder | 4,840,114 | ★★★★☆ (58)
Extensions for React, React-Native and Redux in JS/TS with ES7+ syntax. Customizable. Built-in integration with prettier.
Installing
Details Feature Contributions Changelog
Visual Studio Marketplace v4.4.3 installs 4940458 downloads 19718927 rating 4.19/5 (58)
VS Code ES7+ React/Redux/React-Native/JS snippets
JavaScript and React/Redux snippets in ES7+ with Babel plugin features for VS Code
Installation
Visual Studio Marketplace
Launch Quick Open:
Linux: Ctrl+P
macOS: ⌘P
Windows: Ctrl+P
Paste the following command and press Enter:
ext install dsznajder.es7-react-js-snippets
Options
From version 4 extension provides options to customize the behavior of the snippets:
Option Description
languageScopes list of supported languages / files recognition
prettierEnabled determines if snippets should be parsed with project prettier config
importReactOnTop If disabled, snippets won't contain import React on top. React 17+ support
typescript adds additional typescript snippets
Categories
Snippets
Resources
Marketplace
Repository
License
Marketplace Info
Released on 6/7/2017, 20:02:50
Last updated 2/18/2022, 14:12:52
Identifier dsznajder.es7-react-js-snippets

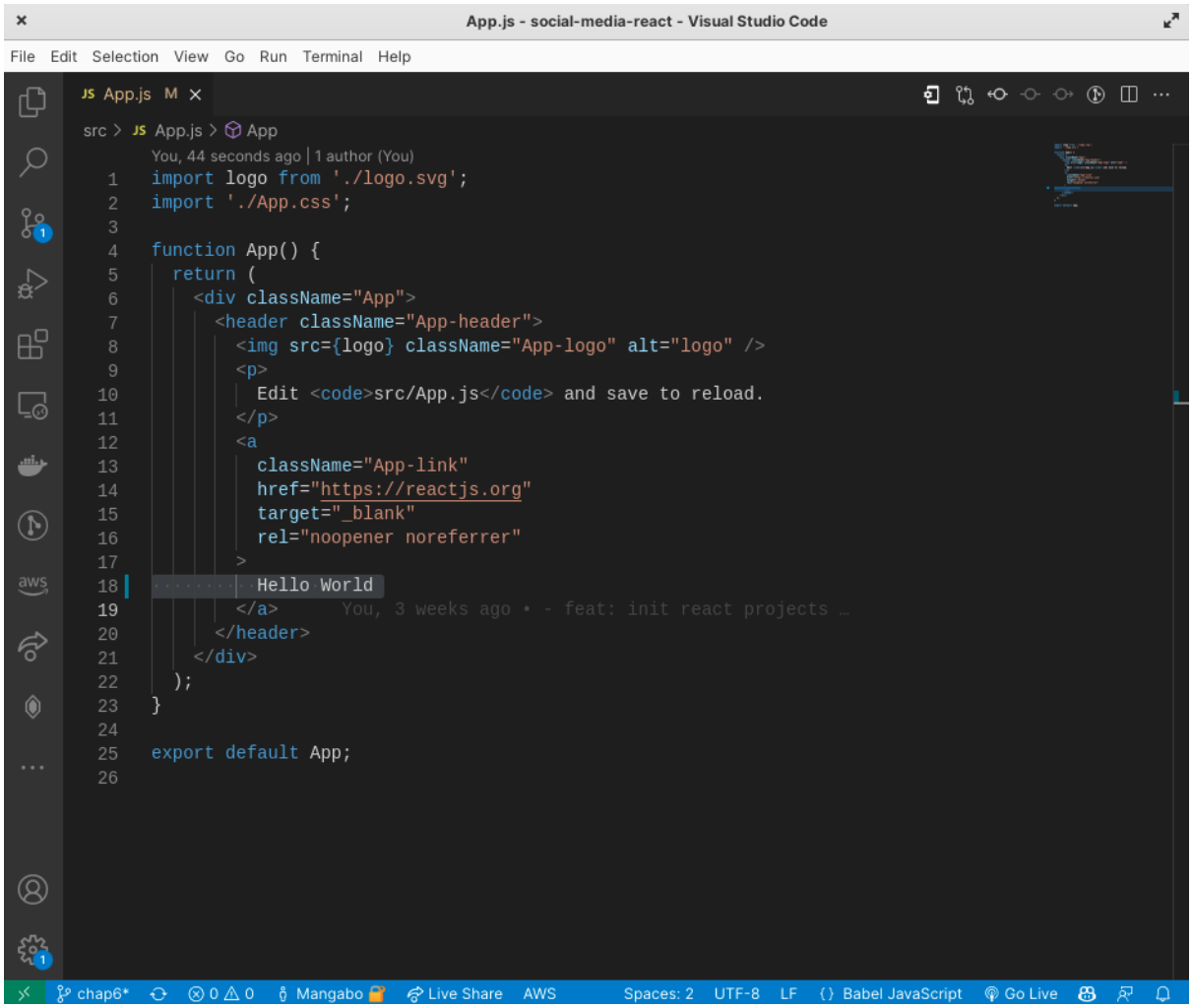

Extension: ESLint - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXTENSIONS: MARK...
eslint
ESLint
Integrates ESLint JavaScri...
Microsoft
Prettier ESLint
A Visual Studio Extension ...
Rebecca Vest
eslint-disable...
Simple snippets for disabl...
Adam Knox
LintLens — ES...
Augment your ESLint rule...
Gabriel McAdams
Disable eslint r...
WoodHead
ESLint Chines...
eslint中文规则提示插件
maggie
Richa's ESLint Snip...
Richa Avasthi
Prettier ESLint ...
Formats TypeScript code ...
Harrison Smith
Debugger ESLint d...
Pierre Marchal
eslint-plugin-lintin...
Extension: ESLint
ESLint
v2.2.2
Microsoft
19,126,200
(188)
Integrates ESLint JavaScript into VS Code.
Disable
Uninstall
Switch to Pre-Release Version
This extension is enabled globally.
Details
Feature Contributions
Changelog
Runtime Status
VS Code ESLint extension
Azure Pipelines succeeded
Integrates ESLint into VS Code. If you are new to ESLint check the documentation.
The extension uses the ESLint library installed in the opened workspace folder. If the folder doesn't provide one the extension looks for a global install version. If you haven't installed ESLint either locally or globally do so by running npm install eslint in the workspace folder for a local install or npm install -g eslint for a global install.
On new folders you might also need to create a .eslintrc configuration file. You can do this by either using the VS Code command Create ESLint configuration or by running the eslint command in a terminal. If you have installed ESLint globally (see above) then run eslint --init in a terminal. If you have installed ESLint locally then run .\node_modules\.bin\eslint --init under Windows and ./node_modules/.bin/eslint --init under Linux and Mac.
Categories
Programming Languages
Linters
Resources
Marketplace
Repository
License
microsoft.com
More Info
Released on 11/16/2015, 12:58:32
Last updated 1/13/2022, 10:49:56
Identifier dbaeumer.vscode-eslint


Extension: Prettier - Code formatter - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXTENSIONS: MARK...
prettier
Prettier - C...
Code formatter using pret...
Prettier
Prettier ESLint
A Visual Studio Extension ...
Rebecca Vest
Prettier Now
VS Code plugin for Prettie...
Remi Marsal
Prettier - C...
Code formatter using pret...
Simon Siefke
Prettier-Stan...
VS Code plugin for prettie...
numso
Prettier - Java...
VS Code plugin for jlongst...
Bastian Kistner
Prettier - Java...
Fork of prettier-vscode: V...
Mathieu SCHROE...
Prettier Java
Format Java with Prettier
dotdevru
Java prettier f...
Formats Java using the Pr...
mwpb
Prettier TOML
Extension: ESLint
Extension: Prettier - Code formatter
Prettier - Code formatter
v9.3.0
Prettier
19,529,299
(318)
Code formatter using prettier
Install
Details
Feature Contributions
Changelog
Prettier Formatter for Visual Studio Code
Prettier is an opinionated code formatter. It enforces a consistent style by parsing your code and re-printing it with its own rules that take the maximum line length into account, wrapping code when necessary.
JavaScript · TypeScript · Flow · JSX · JSON
CSS · SCSS · Less
HTML · Vue · Angular HANDLEBARS · Ember · Glimmer
GraphQL · Markdown · YAML
Your favorite language?
Main passing downloads 124M installs 20M code style prettier follow prettier 21k
Installation
Install through VS Code extensions. Search for Prettier - Code formatter
Visual Studio Code Market Place: Prettier - Code formatter
Categories
Formatters
Resources
Marketplace
Repository
License
More Info
Released on 1/10/2017, 20:52:02
Last updated 2/21/2022, 19:14:45
Identifier esbenp.prettier-vscode

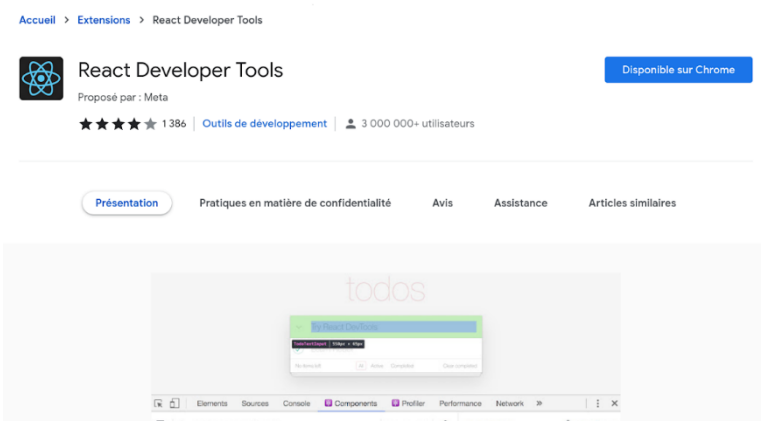


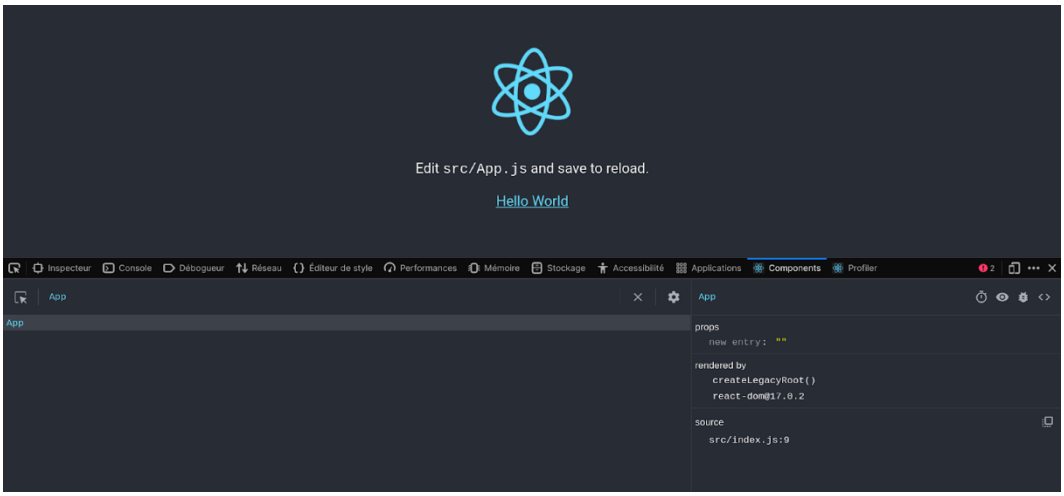

```
success Uninstalled packages.
Done in 3.63s.

Created git commit.

Success! Created social-media-app at /home/koladev/social-media-app
Inside that directory, you can run several commands:

  yarn start
    Starts the development server.

  yarn build
    Bundles the app into static files for production.

  yarn test
    Starts the test runner.

  yarn eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd social-media-app
  yarn start

Happy hacking!
Done in 1258.70s.
```

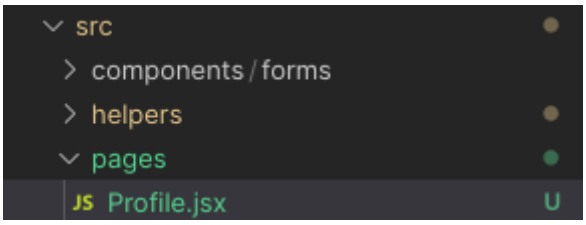

Edit src/App.js and save to reload.
Learn React


App.js - social-media-react - Visual Studio Code
File Edit Selection View Go Run Terminal Help
App.js M
src > App.js > App
You, 44 seconds ago | 1 author (You)
1 import logo from './logo.svg';
2 import './App.css';
3
4 function App() {
5 return (
6
7 <header className="App-header">
8
9
10 Edit <code>src/App.js</code> and save to reload.
11
12 <a
13 className="App-link"
14 href="https://reactjs.org"
15 target="_blank"
16 rel="noopener noreferrer"
17 >
18 Hello World
19 You, 3 weeks ago • - feat: init react projects …
20 </header>
21
22);
23 }
24
25 export default App;
26
chap6* 0 0 Mangabo Live Share AWS Spaces: 2 UTF-8 LF Babel JavaScript Go Live

Edit src/App.js and save to reload.
Hello World

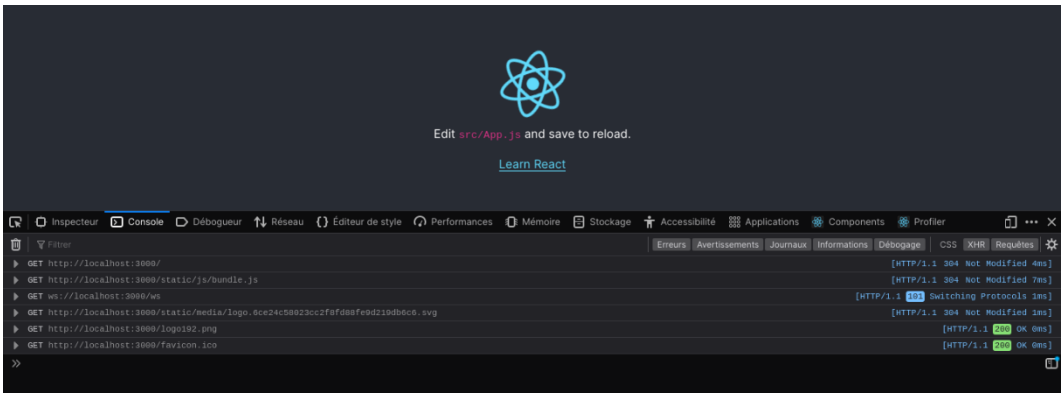

Accueil > Extensions > React Developer Tools
React Developer Tools
Proposé par : Meta
1 386
Outils de développement
3 000 000+ utilisateurs
Disponible sur Chrome
Présentation
Pratiques en matière de confidentialité
Avis
Assistance
Articles similaires
todos
Elements
Sources
Console
Components
Profiler
Performance
Network

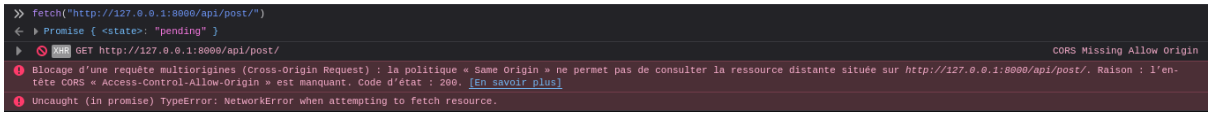

Edit src/App.js and save to reload.
Hello World
Inspecteur
Console
Débogueur
Réseau
Éditeur de style
Performances
Mémoire
Stockage
Accessibilité
Applications
Components
Profiler
App
App
App
props
new entry: ""
rendered by
createLegacyRoot()
react-dom@17.0.2
source
src/index.js:9

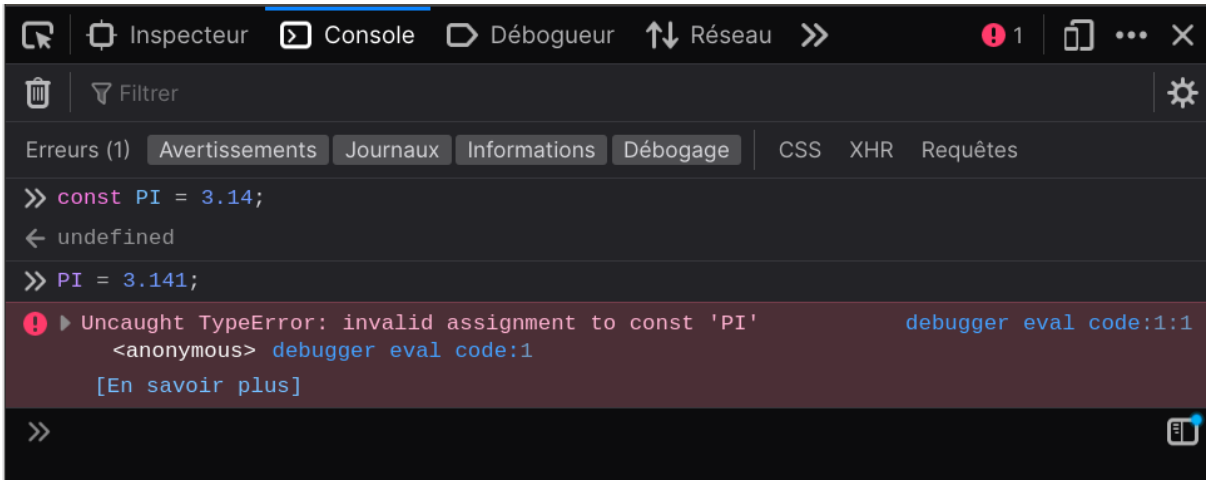

src
components / forms
helpers
pages
JS Profile.jsx
U

Profile

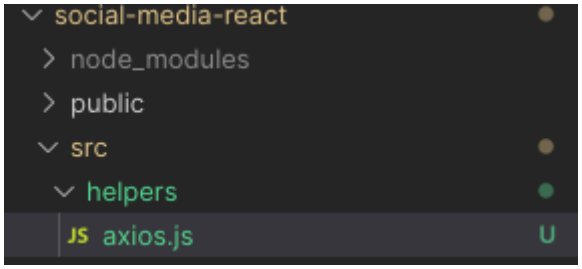
Welcome!

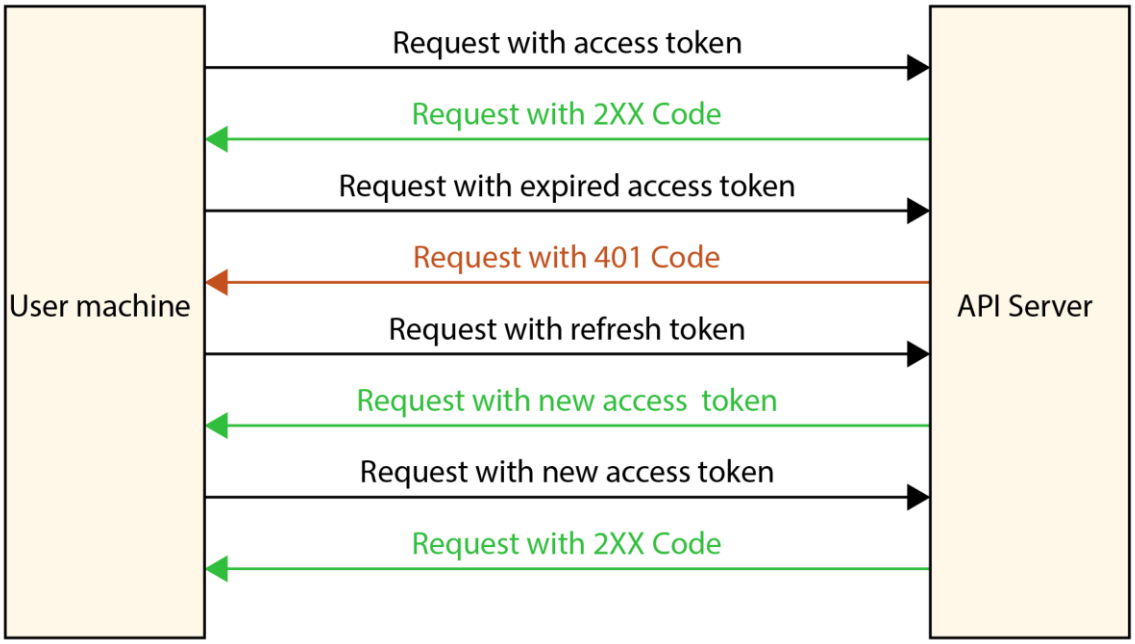


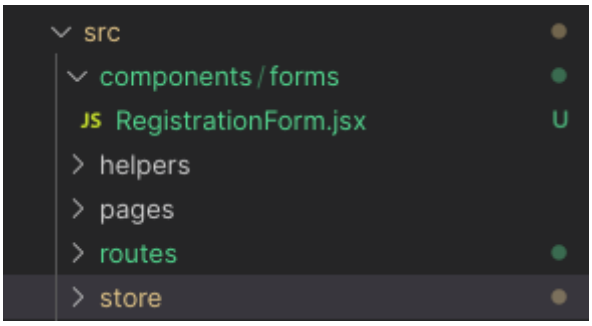




Chapter 07: Building Login and Registration Forms







Welcome to the Postagram!

This is a new social media site that will allow you to share your thoughts and experiences with your friends. Register now and start enjoying!
Or if you already have an account, please login.

First Name

Enter first name

Last name

Enter last name

Username

Enter username

Email address

Enter email

Password

Password

Bio

A simple bio ... (Optional)

Submit

Profile

Welcome!

Welcome to Postagram!

Login now and start enjoying!
Or if you don't have an account, please register.

Username

Enter username

Password

Password

Submit

Username

koladevaaa

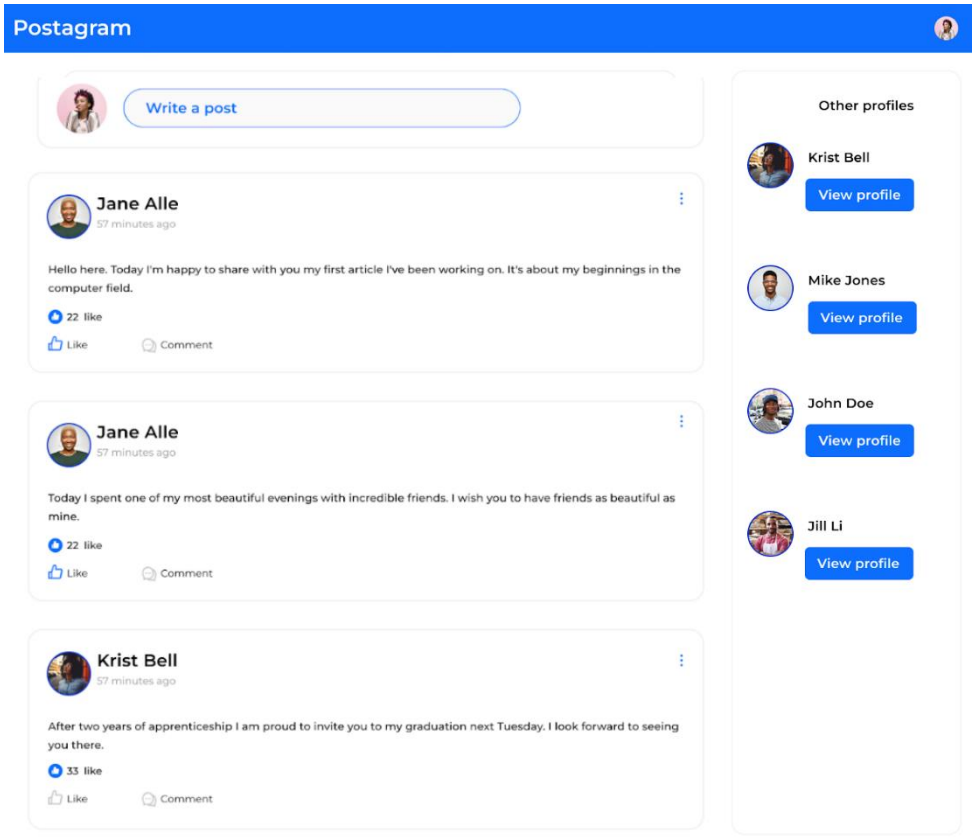
Password

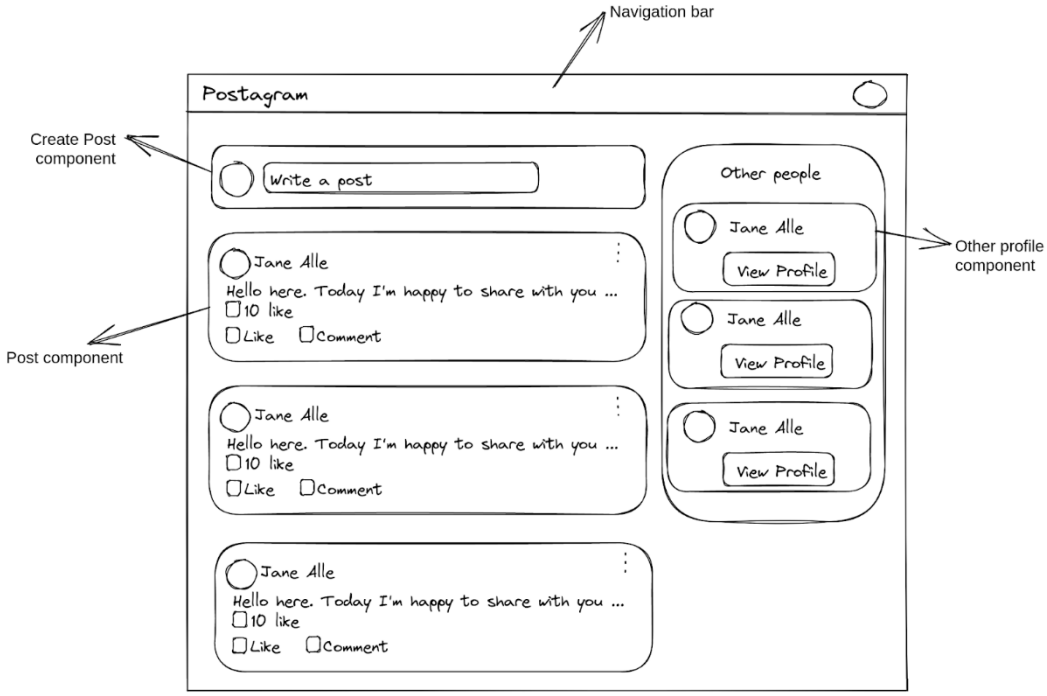
●●●●●●●●●

{"detail":"No active account found with the given credentials"}

Submit

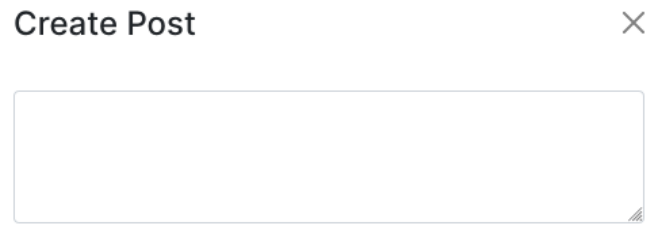
Chapter 08: Social Media Posts

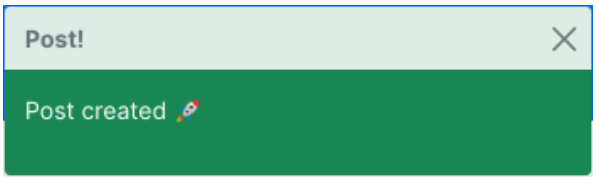


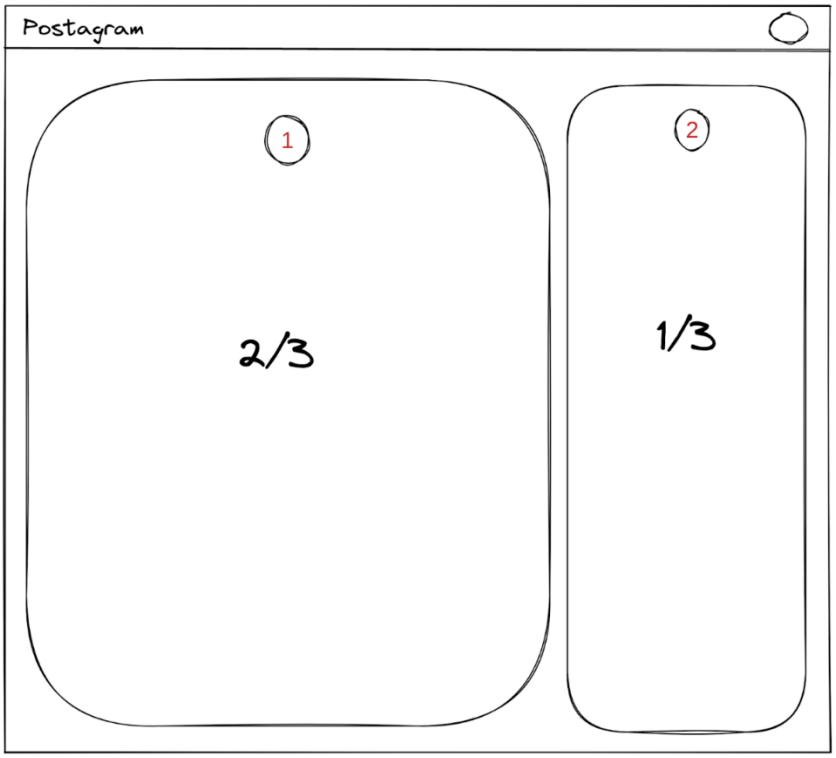


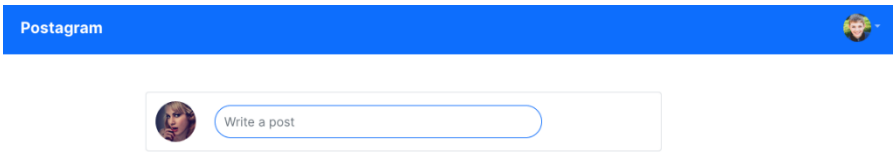
Postagram
1
3
2
Profile
Logout
Write a post
Suggested people

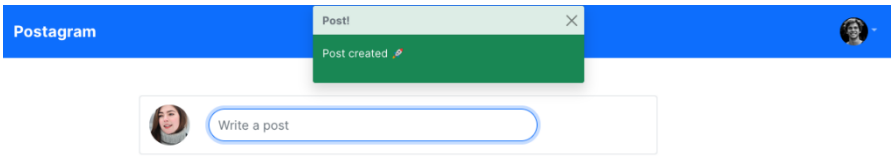
Postagram

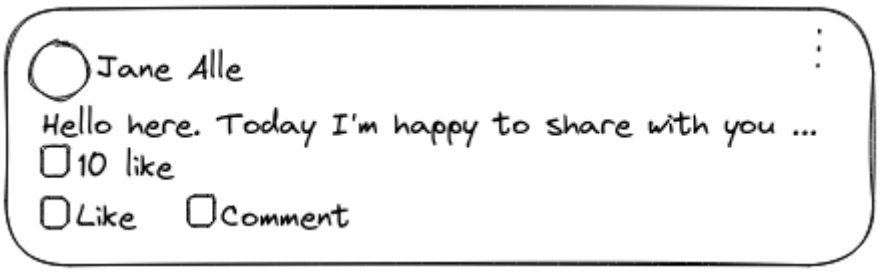

Create Post
Post

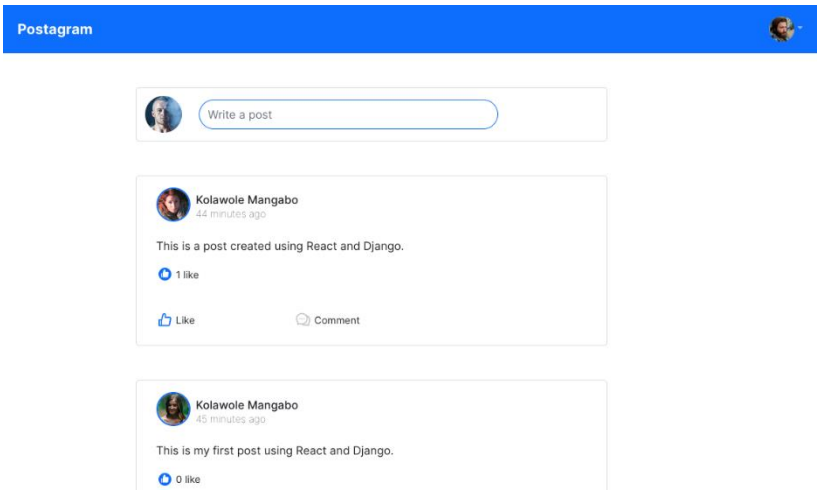

Post!
Post created 🚀

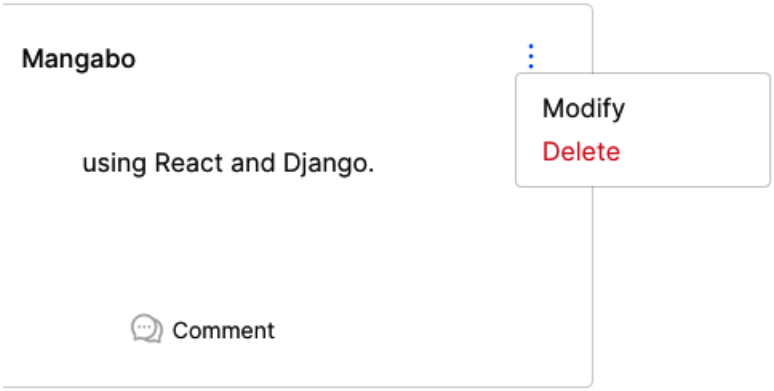

Postagram
1
2/3
2
1/3

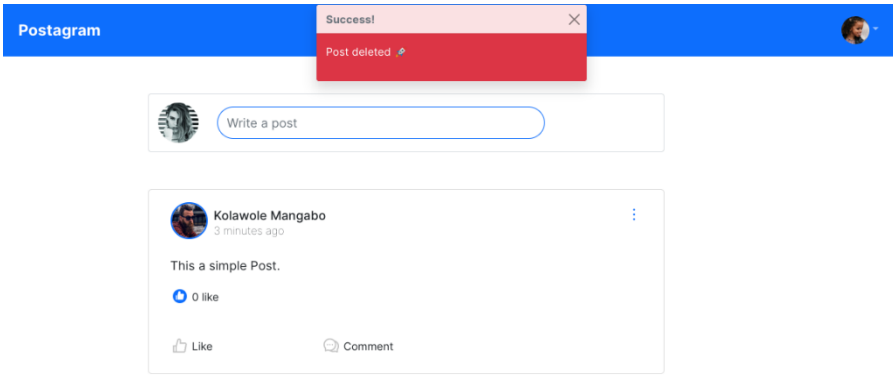

Postagram
Write a post

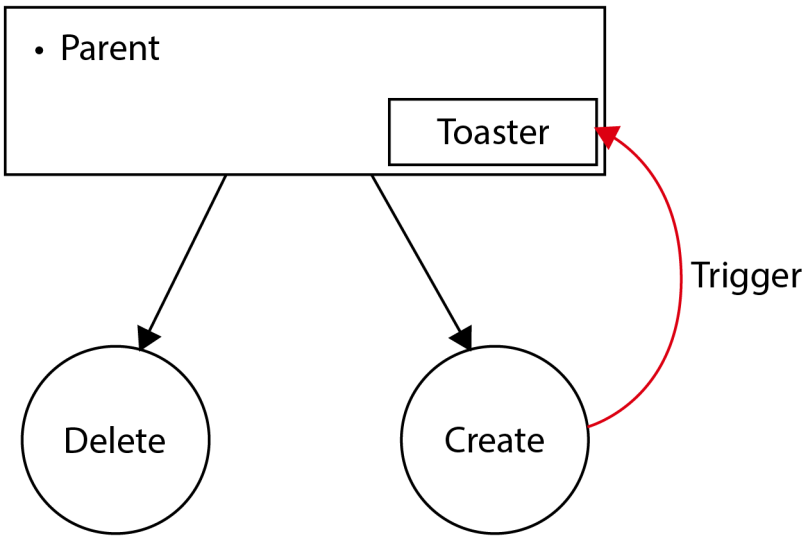

Postagram
Post!
Post created
Write a post


Jane Alle
Hello here. Today I'm happy to share with you ...
10 like
Like
Comment

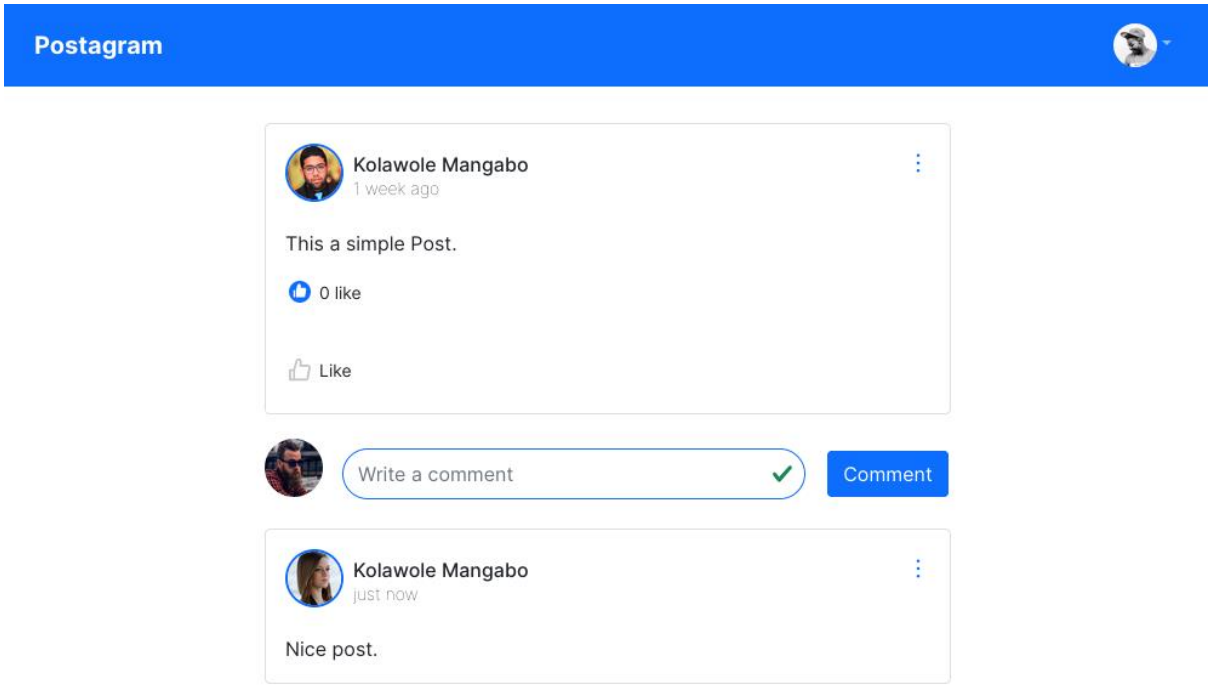

Postagram
Write a post
Kolawole Mangabo
44 minutes ago
This is a post created using React and Django.
1 like
Like
Comment
Kolawole Mangabo
45 minutes ago
This is my first post using React and Django.
0 like

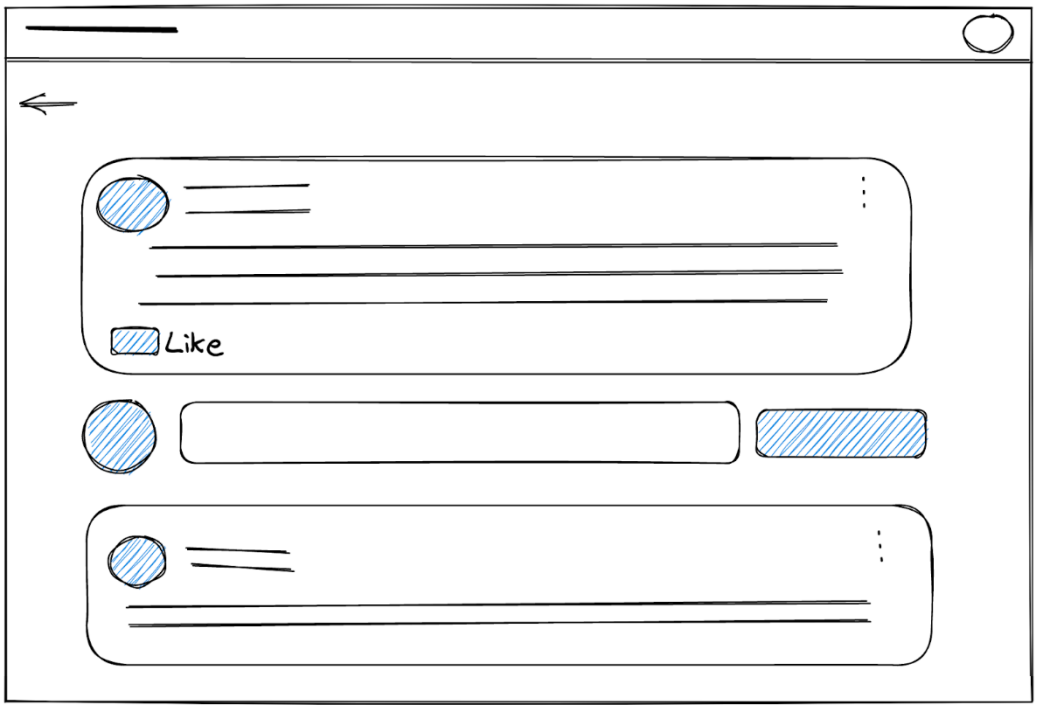

Mangabo
using React and Django.
Comment
Modify
Delete

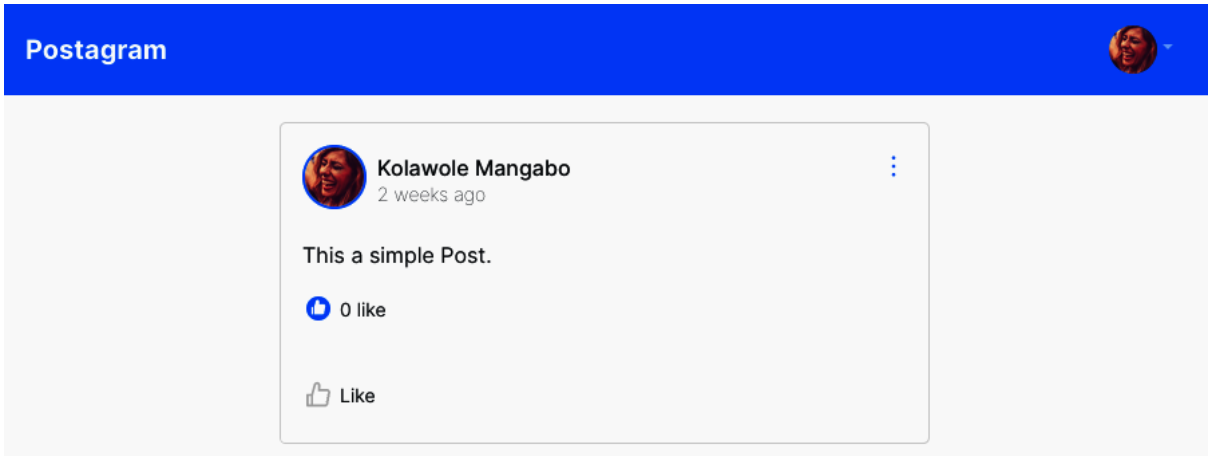

Postagram
Success!
Post deleted
Write a post
Kolawole Mangabo
3 minutes ago
This a simple Post.
0 like
Like
Comment

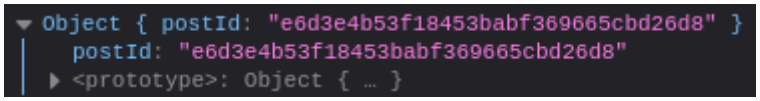

• Parent
Toaster
Trigger
Delete
Create

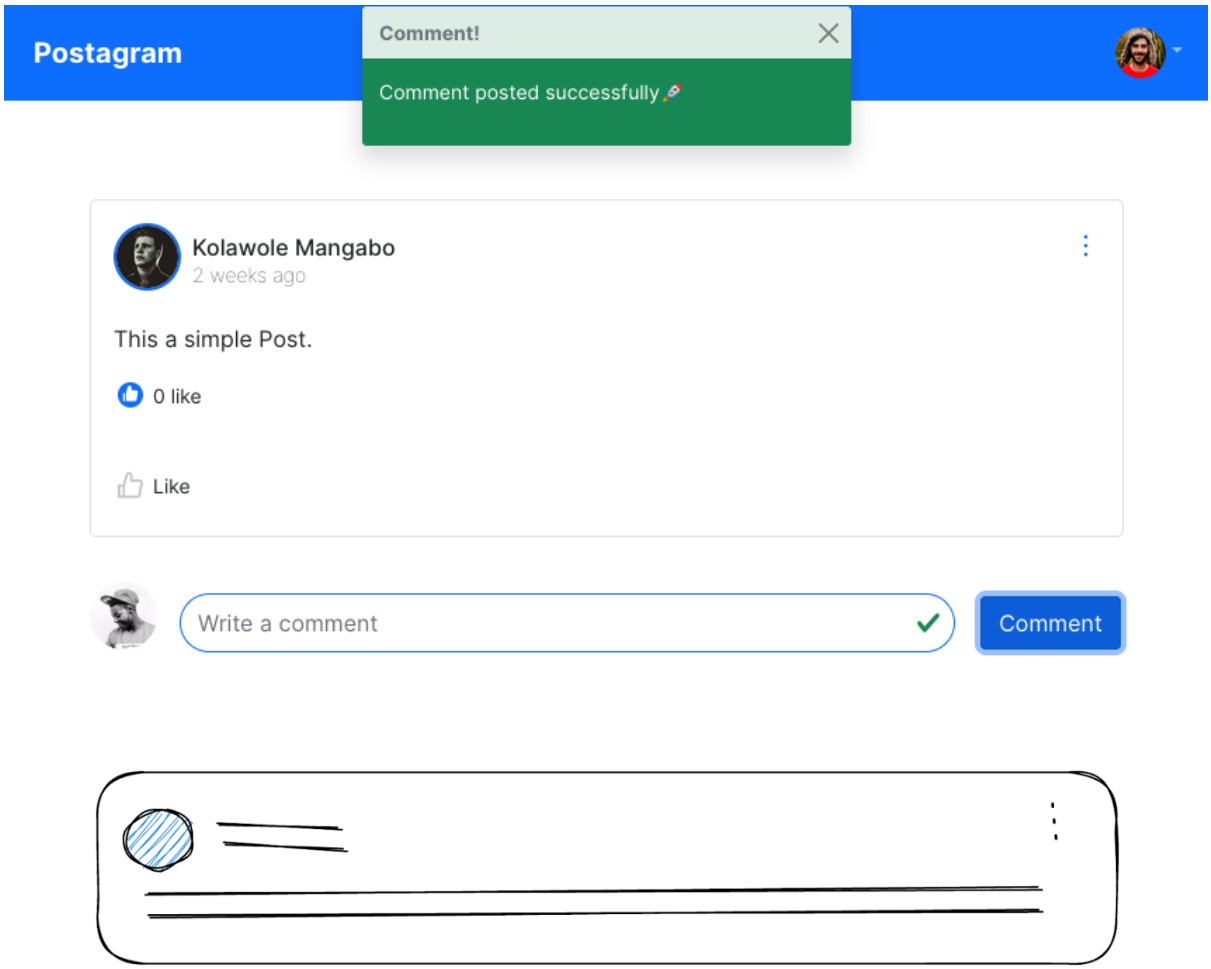
Chapter 09: Post comments

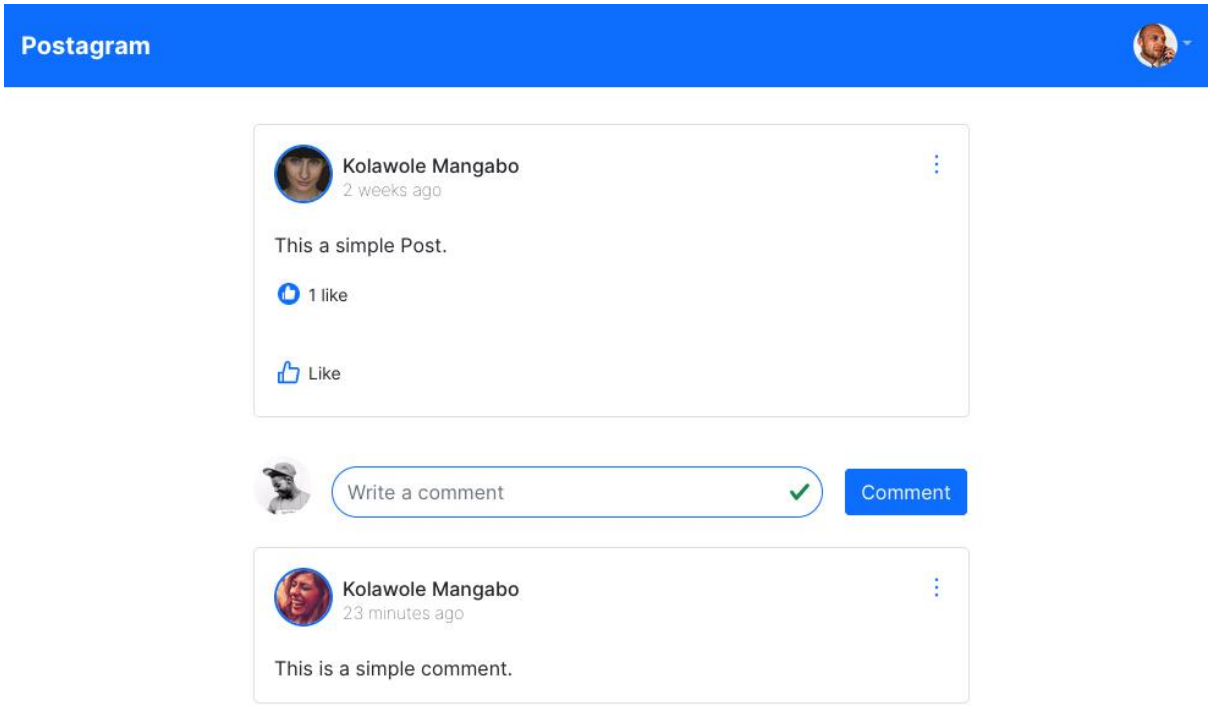


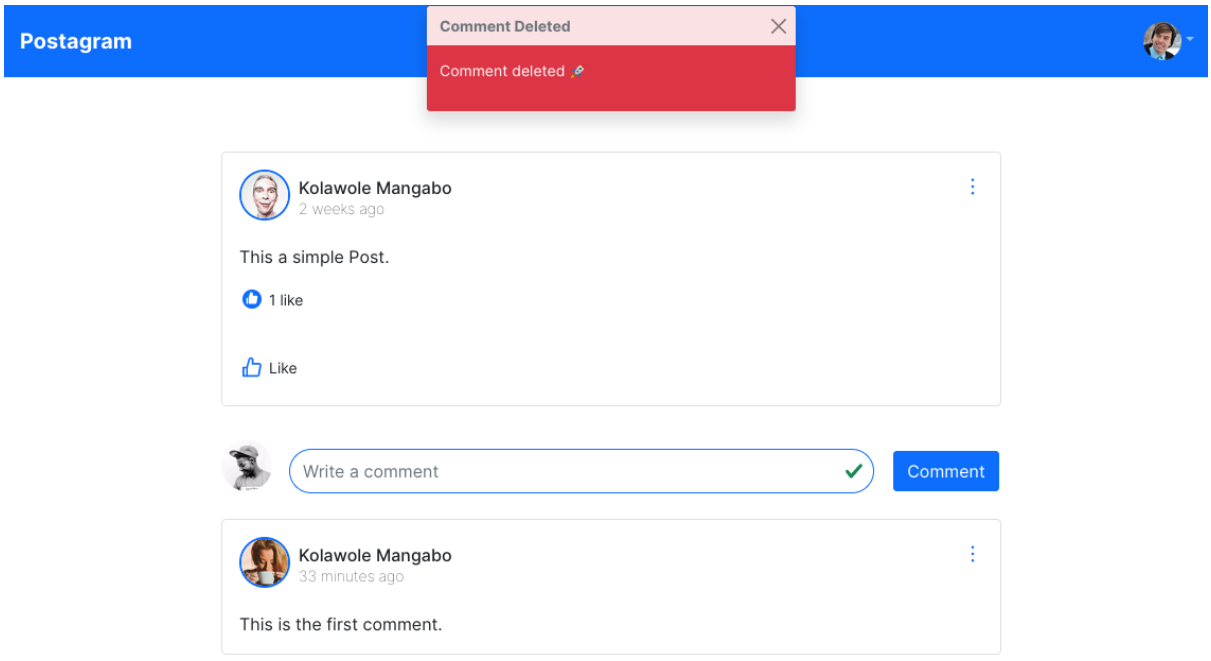


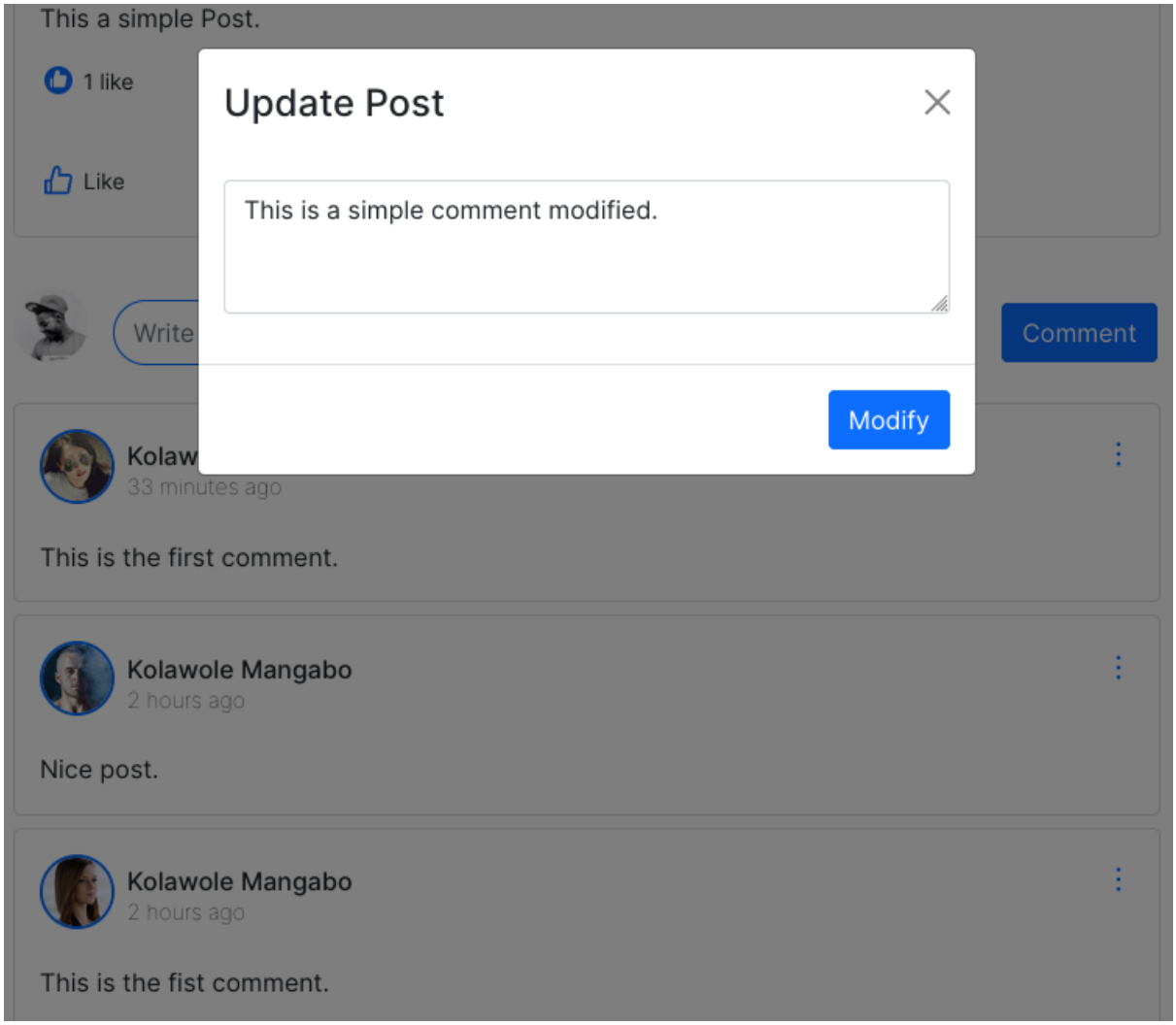

Postagram
Kolawole Mangabo
2 weeks ago
This a simple Post.
0 like
Like

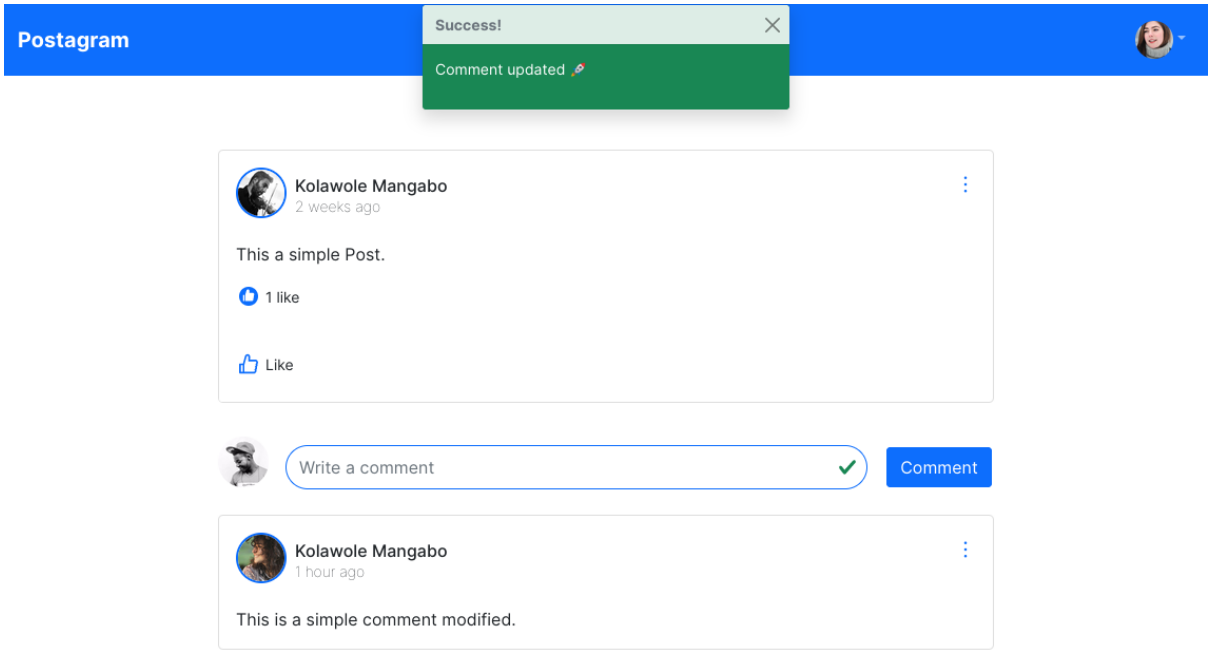

Object { postId: "e6d3e4b53f18453babf369665cbd26d8" }
postId: "e6d3e4b53f18453babf369665cbd26d8"
<prototype>: Object { … }


Postagram
Comment!
Comment posted successfully
Kolawole Mangabo
2 weeks ago
This a simple Post.
0 like
Like
Write a comment
Comment


Postagram
Kolawole Mangabo
2 weeks ago
This a simple Post.
1 like
Like
Write a comment
Comment
Kolawole Mangabo
23 minutes ago
This is a simple comment.


Postagram
Comment Deleted
Comment deleted
Kolawole Mangabo
2 weeks ago
This a simple Post.
1 like
Like
Write a comment
Comment
Kolawole Mangabo
33 minutes ago
This is the first comment.


This a simple Post.
1 like
Like
Update Post
This is a simple comment modified.
Modify
Write
Comment
Kolaw
33 minutes ago
This is the first comment.
Kolawole Mangabo
2 hours ago
Nice post.
Kolawole Mangabo
2 hours ago
This is the fist comment.


Postagram
Success!
Comment updated
Kolawole Mangabo
2 weeks ago
This a simple Post.
1 like
Like
Write a comment
Comment
Kolawole Mangabo
1 hour ago
This is a simple comment modified.

This a simple Post.

1 like

Like

Write a comment

Comment

Kolawole Mangabo

1 hour ago

This is a simple comment modified.

1 like

Like

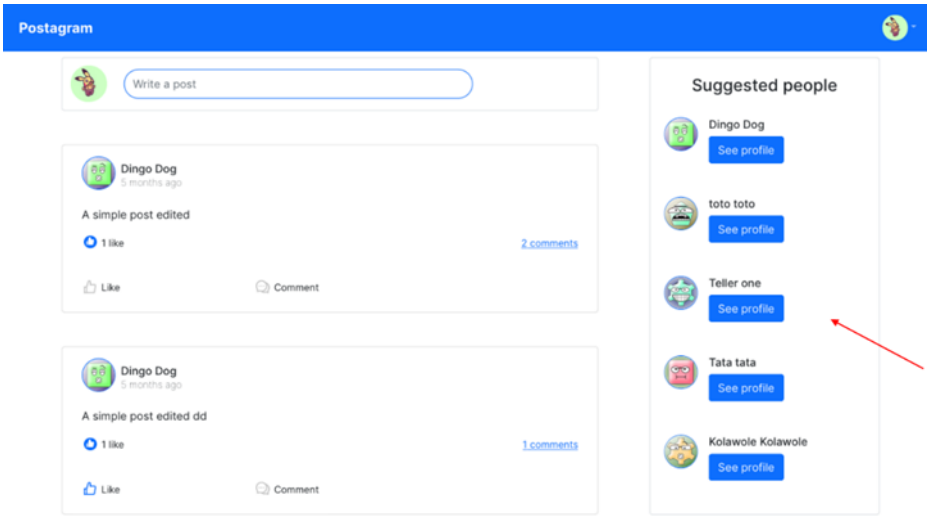
Kolawole Mangabo

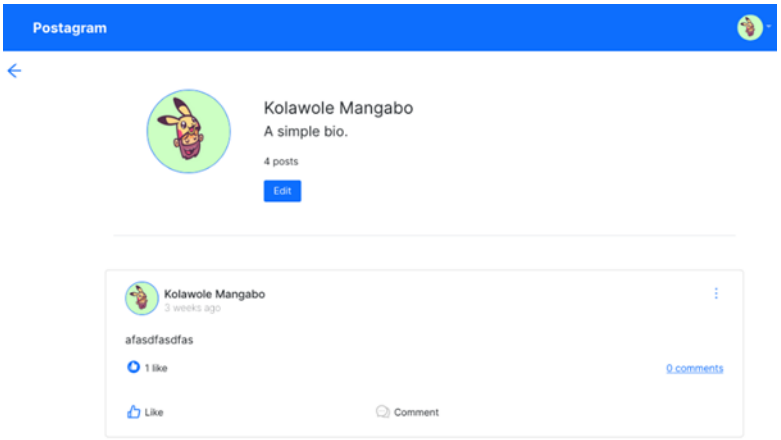
3 hours ago

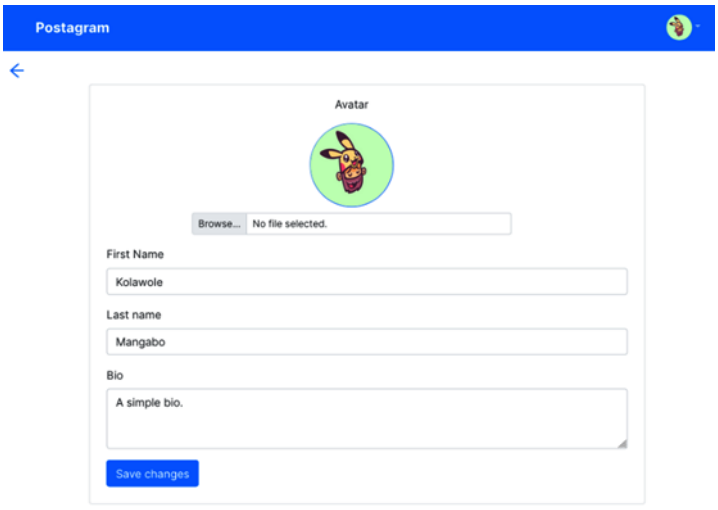
Nice post.

0 like

Chapter 10: User Profiles





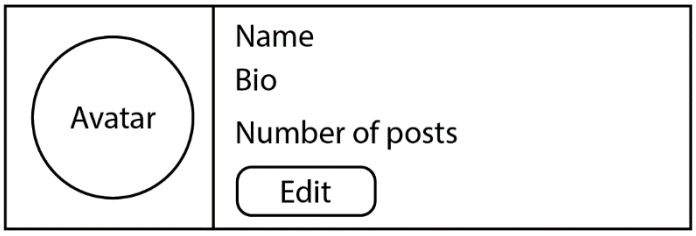


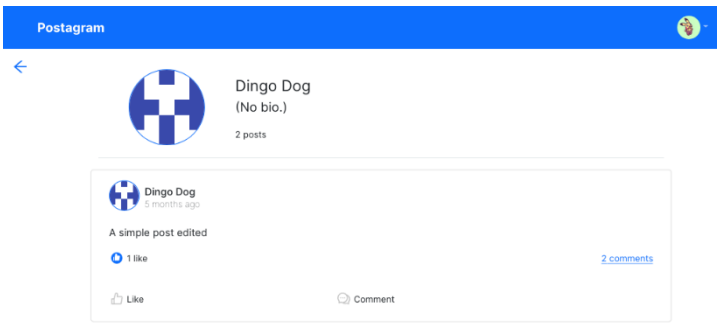
Kolawole Mangabo

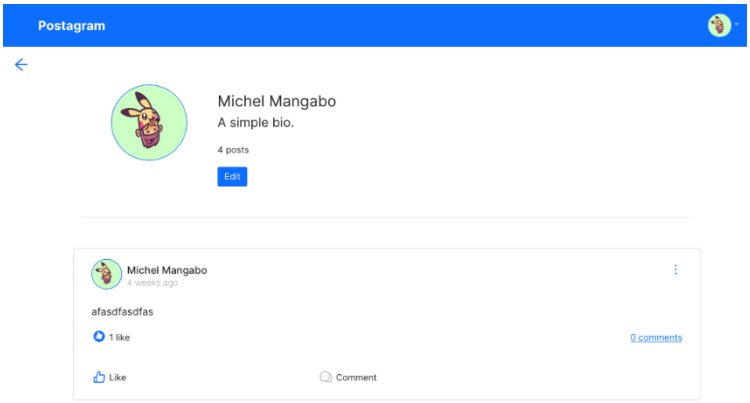
A simple bio.

4 posts

Edit





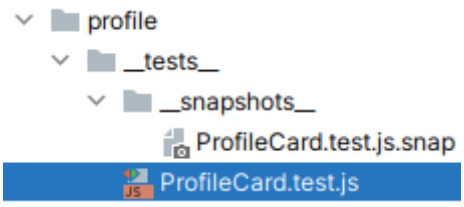

Postagram
Michel Mangabo
A simple bio.
4 posts
Edit
Michel Mangabo
4 weeks ago
afasdfasdfas
1 like
0 comments
Like
Comment

Chapter 11: Effective UI Testing for React Com-ponents

```
Test Suites: 1 failed, 1 total
Tests:       1 failed, 1 total
Snapshots:   0 total
Time:        2.6 s
Ran all test suites.

Watch Usage: Press w to show more.
```

```
FAIL src/App.test.js
  × renders learn react link (134 ms)

  ● renders learn react link

    useRoutes() may be used only in the context of a <Router> component.
```

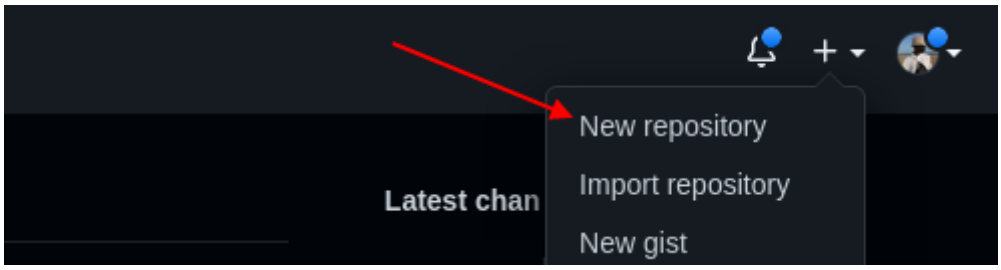
```
PASS src/App.test.js
  ✓ renders learn react link (59 ms)

Test Suites: 1 passed, 1 total
Tests:       1 passed, 1 total
Snapshots:   0 total
Time:        3.445 s
Ran all test suites.

Watch Usage: Press w to show more.
```

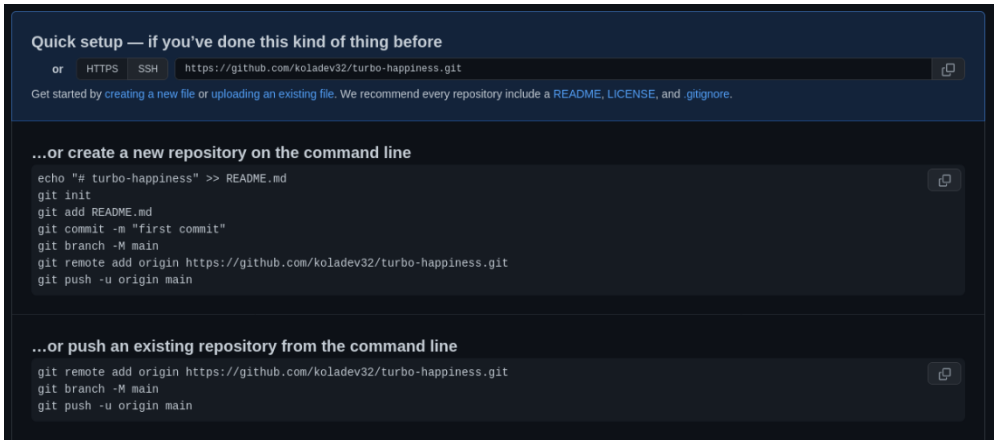


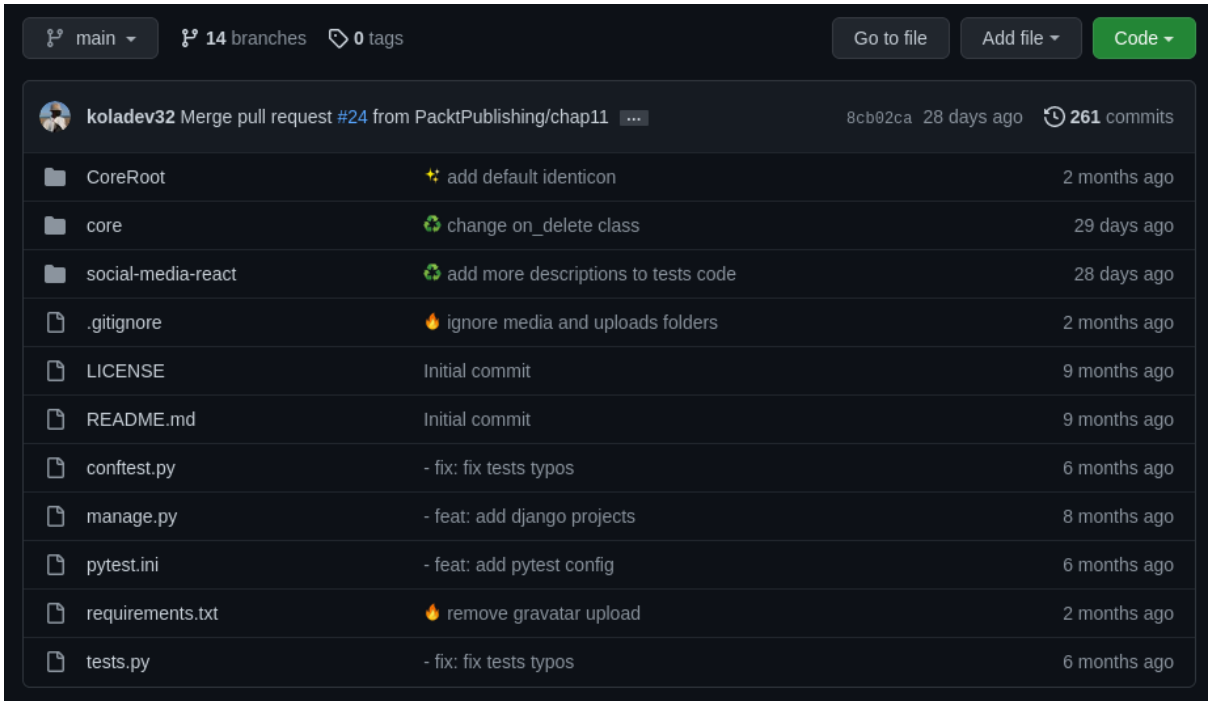
Chapter 12: Deployment Basics – Git, GitHub, and AWS

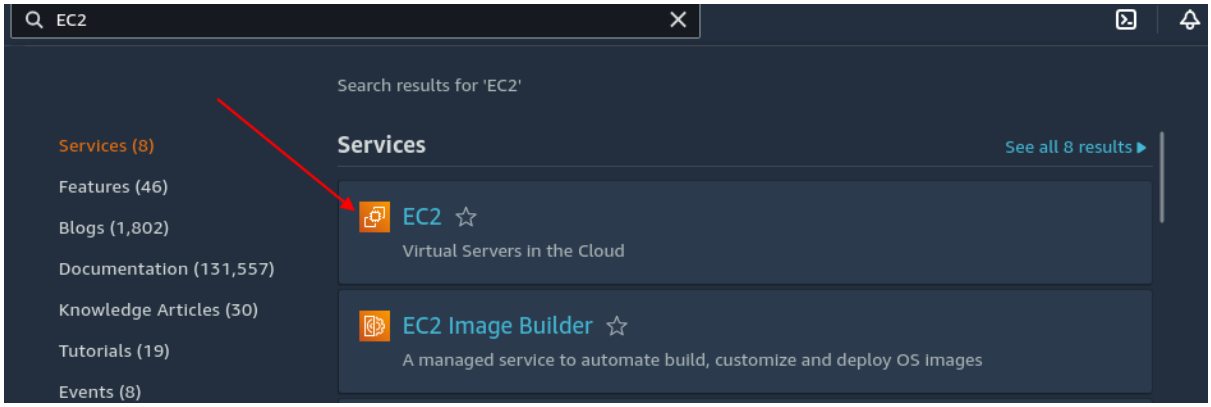
```
(venv) koladev@koladev123xxx:~/Downloads/Full-stack-Django-and-React-main$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   .gitignore
        new file:   CoreRoot/__init__.py
        new file:   CoreRoot/asgi.py
        new file:   CoreRoot/settings.py
        new file:   CoreRoot/urls.py
        new file:   CoreRoot/wsgi.py
        new file:   LICENSE
        new file:   README.md
        new file:   conftest.py
        new file:   core/__init__.py
        new file:   core/abstract/__init__.py
```

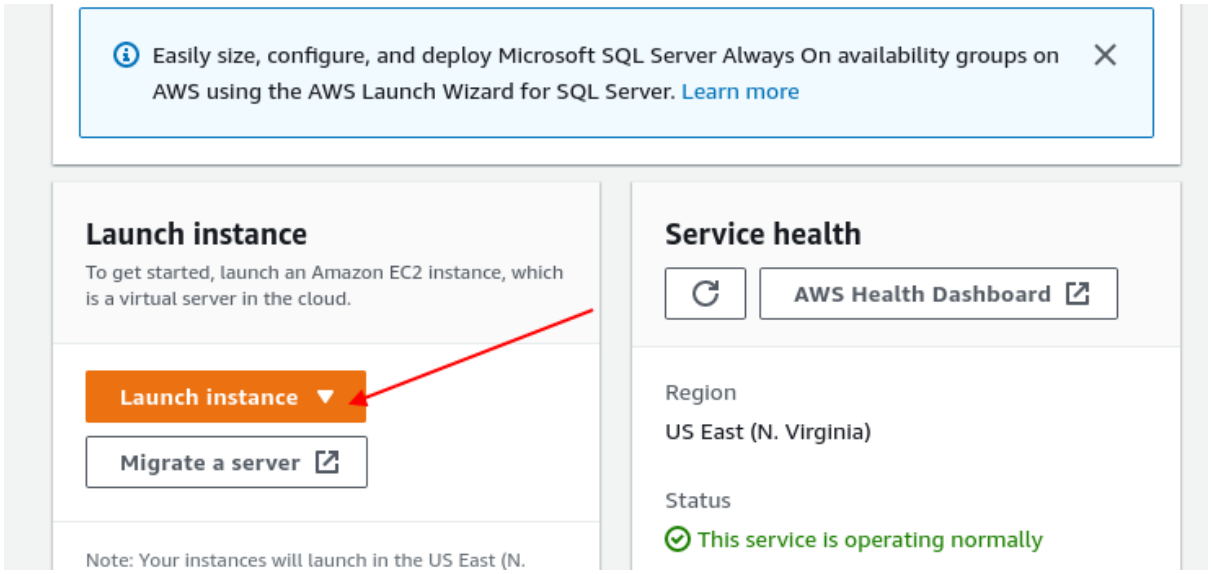
```
(venv) koladev@koladev123xxx:~/Downloads/Full-stack-Django-and-React-main$ git log
commit 7fab9bf8a03f6e2bd42291214168f9c7c3d7c308 (HEAD -> master)
Author: koladev <onaelmangabo@gmail.com>
Date:   Sun Sep 18 01:09:45 2022 +0100

    Initialize git in API project
```

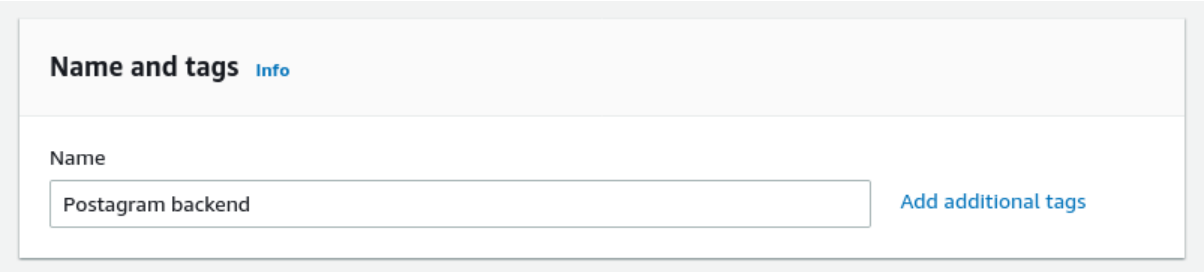


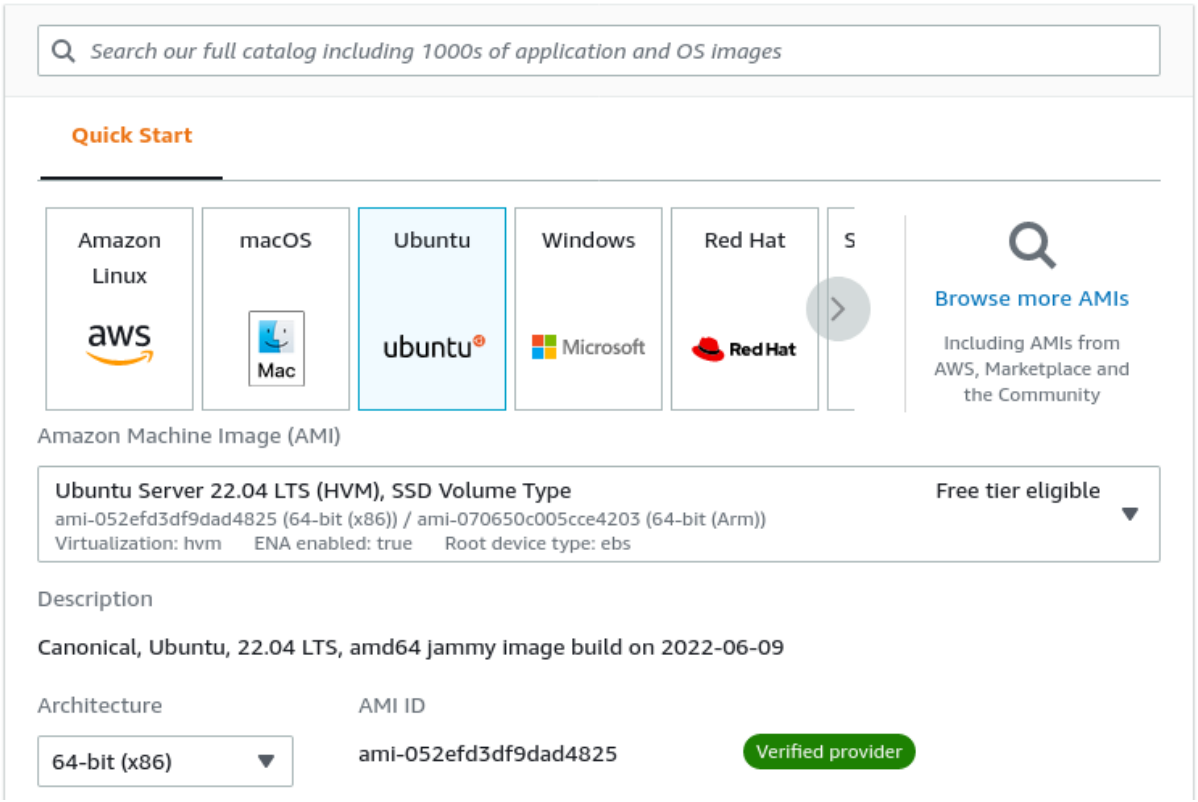


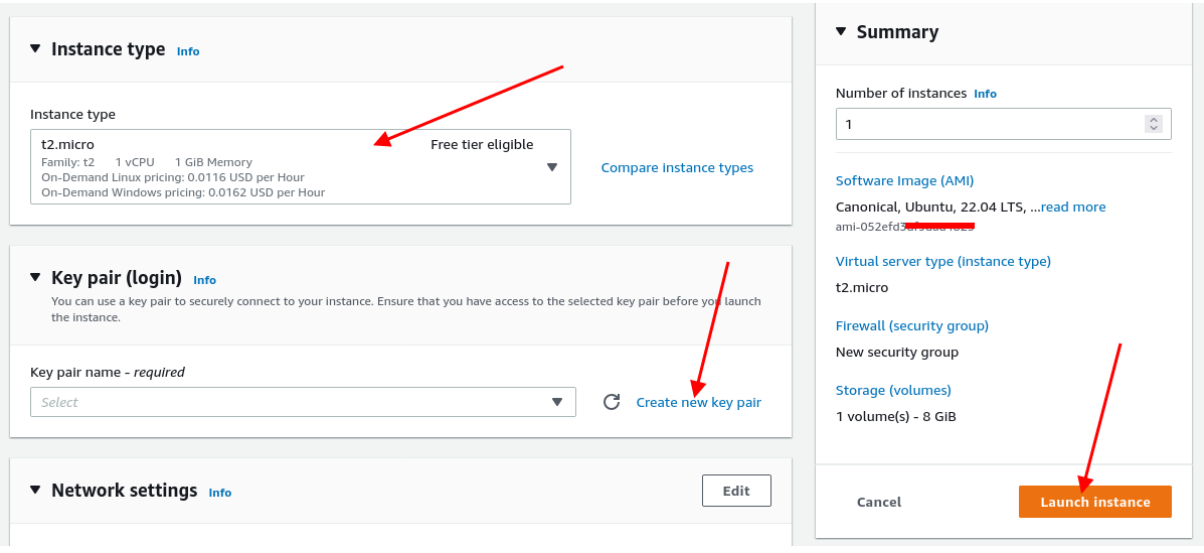

main
14 branches
0 tags
Go to file
Add file
Code
koladev32 Merge pull request #24 from PacktPublishing/chap11 ...
8cb02ca 28 days ago
261 commits
CoreRoot add default identicon 2 months ago
core change on_delete class 29 days ago
social-media-react add more descriptions to tests code 28 days ago
.gitignore ignore media and uploads folders 2 months ago
LICENSE Initial commit 9 months ago
README.md Initial commit 9 months ago
conftest.py - fix: fix tests typos 6 months ago
manage.py - feat: add django projects 8 months ago
pytest.ini - feat: add pytest config 6 months ago
requirements.txt remove gravatar upload 2 months ago
tests.py - fix: fix tests typos 6 months ago

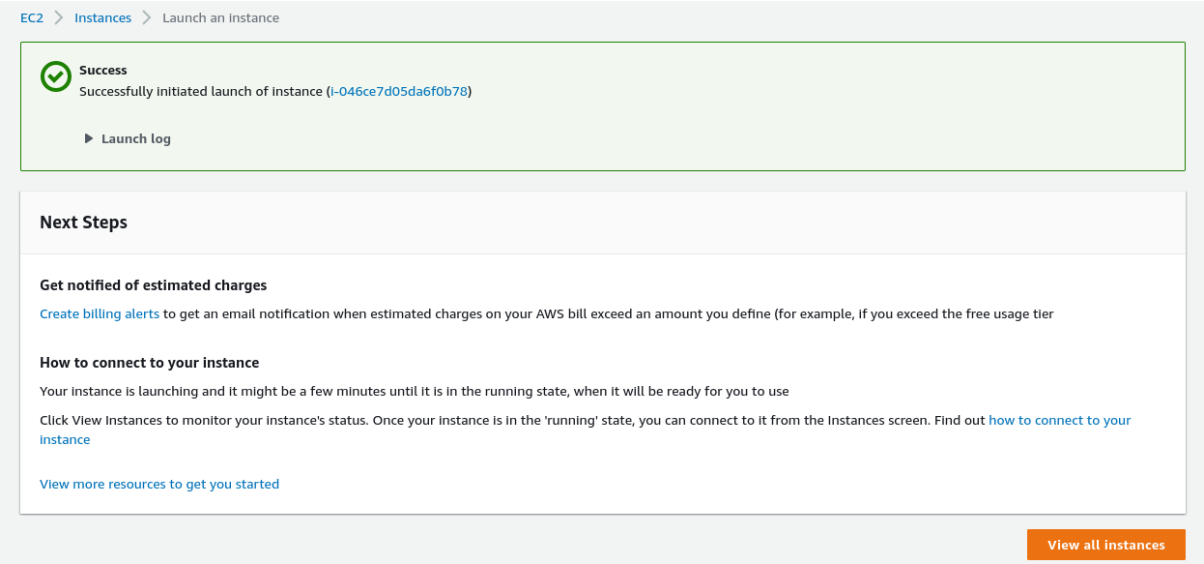

EC2
Search results for 'EC2'
Services (8)
Features (46)
Blogs (1,802)
Documentation (131,557)
Knowledge Articles (30)
Tutorials (19)
Events (8)
Services
See all 8 results
EC2
Virtual Servers in the Cloud
EC2 Image Builder
A managed service to automate build, customize and deploy OS images

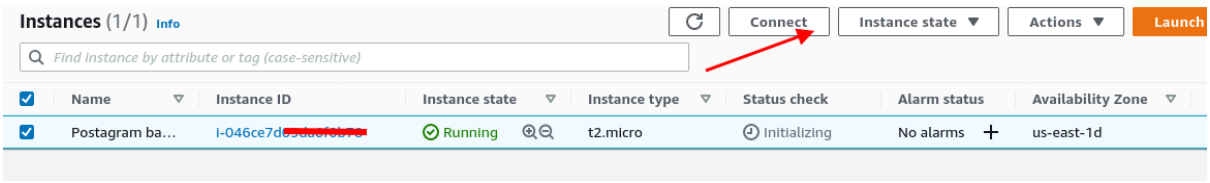

Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. Learn more
Launch instance
To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.
Launch instance
Migrate a server
Note: Your instances will launch in the US East (N.
Service health
AWS Health Dashboard
Region
US East (N. Virginia)
Status
This service is operating normally

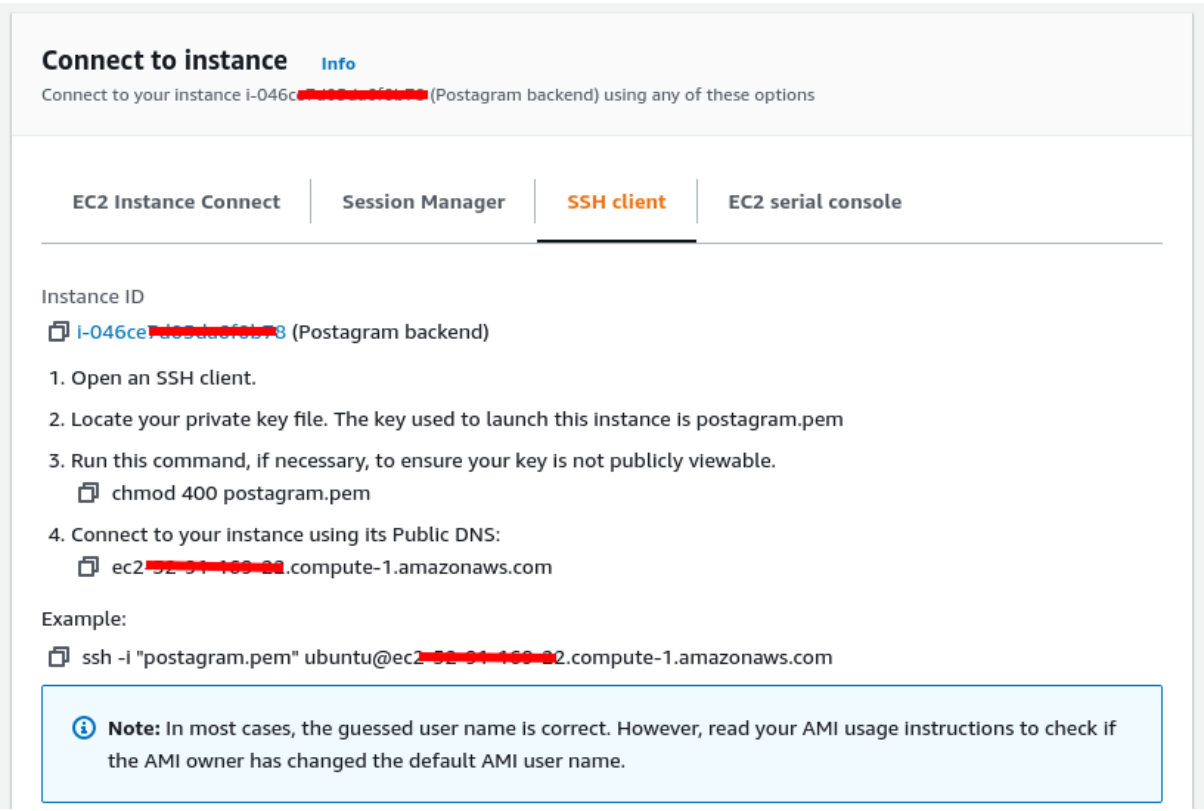

Name and tags Info
Name
Postagram backend
Add additional tags

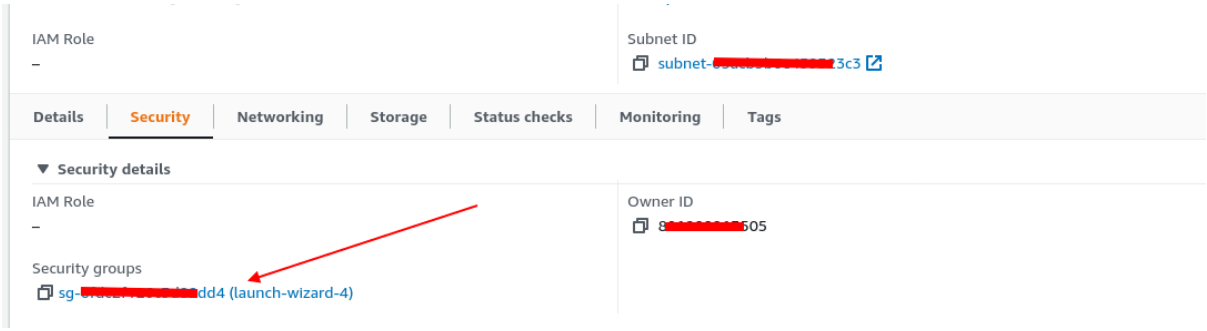

Search our full catalog including 1000s of application and OS images
Quick Start
Amazon Linux
macOS
Mac
Ubuntu
ubuntu
Windows
Microsoft
Red Hat
Red Hat
S
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Amazon Machine Image (AMI)
Ubuntu Server 22.04 LTS (HVM), SSD Volume Type
ami-052efd3df9dad4825 (64-bit (x86)) / ami-070650c005cce4203 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs
Free tier eligible
Description
Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2022-06-09
Architecture
64-bit (x86)
AMI ID
ami-052efd3df9dad4825
Verified provider

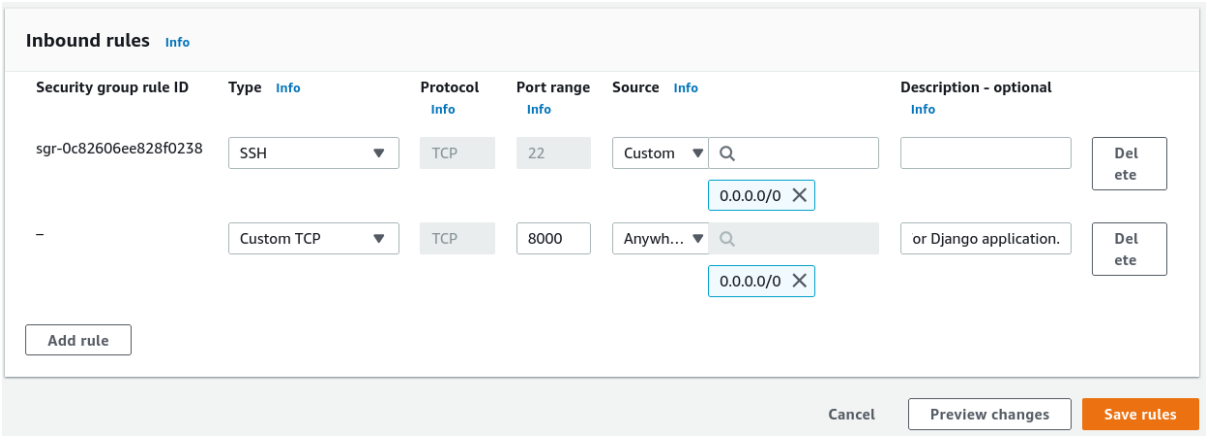

Instance type Info
Instance type
t2.micro
Family: t2 1 vCPU 1 GiB Memory
On-Demand Linux pricing: 0.0116 USD per Hour
On-Demand Windows pricing: 0.0162 USD per Hour
Free tier eligible
Compare instance types
Key pair (login) Info
You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.
Key pair name - required
Select
Create new key pair
Network settings Info
Edit
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance


EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-046ce7d05da6f0b78)
Launch log
Next Steps
Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier
How to connect to your instance
Your instance is launching and it might be a few minutes until it is in the running state, when it will be ready for you to use
Click View Instances to monitor your instance's status. Once your instance is in the 'running' state, you can connect to it from the Instances screen. Find out how to connect to your instance
View more resources to get you started
View all instances


Instances (1/1) Info
Connect
Instance state
Actions
Launch
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Postagram ba...
Running
t2.micro
Initializing
No alarms
us-east-1d


Connect to instance Info
Connect to your instance i-046c (Postagram backend) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-046ce (Postagram backend)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is postagram.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 postagram.pem
4. Connect to your instance using its Public DNS:
ec2 .compute-1.amazonaws.com
Example:
ssh -i "postagram.pem" ubuntu@ec2 .compute-1.amazonaws.com
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.





DisallowedHost at /

Invalid HTTP_HOST header: '[redacted].22:8000'. You may need to add '[redacted].22'

Request Method:	GET
Request URL:	http://[redacted].22:8000/
Django Version:	4.0.1
Exception Type:	DisallowedHost
Exception Value:	`Invalid HTTP_HOST header: '[redacted]:8000'. You may need to add '[redacted].22' to ALLOWED_HOST`
Exception Location:	/home/ubuntu/Full-stack-Django-and-React/venv/lib/python3.10/site-packages/django/http/request.py,
Python Executable:	/home/ubuntu/Full-stack-Django-and-React/venv/bin/python
Python Version:	3.10.4
Python Path:	`['/home/ubuntu/Full-stack-Django-and-React',`

Page not found (404)

Request Method:	GET
Request URL:	http://[redacted].22:8000/

Using the URLconf defined in `CoreRoot.urls`, Django tried these URL patterns, in this order:

1. admin/
2. api/
3. ^media/(?P<path>.*)$

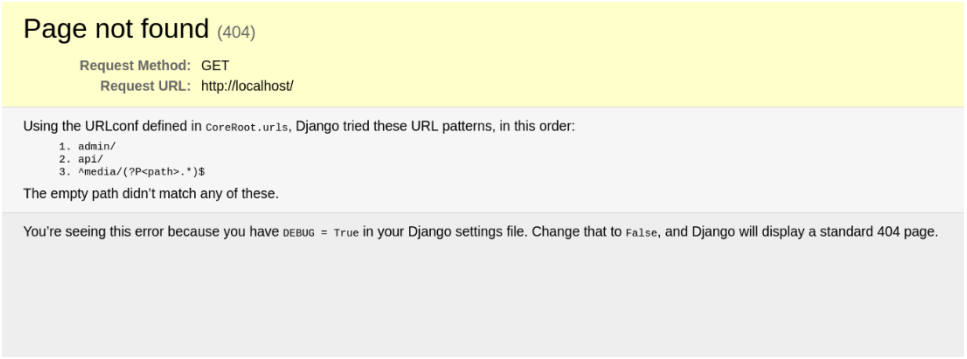
The empty path didn't match any of these.

You're seeing this error because you have `DEBUG = True` in your Django settings file. Change that to `False`, and Django will display a standard 404 page.

Chapter 13: Dockerizing the Django Project

```
(venv) koladev@koladev123xxx:~/PycharmProjects/Full-stack-Django-and-React$ docker ps
CONTAINER ID   IMAGE                    COMMAND                  CREATED         STATUS         PORTS
8c57a088fd6a   django-postagram:latest   "python manage.py ru…"   6 seconds ago   Up 6 seconds   0.0.0.0:8000->8000/tcp,
```

```
django.db.utils.OperationalError: could not connect to server: Connection refused
        Is the server running on host "localhost" (127.0.0.1) and accepting
        TCP/IP connections on port 5432?
could not connect to server: Address not available
        Is the server running on host "localhost" (::1) and accepting
        TCP/IP connections on port 5432?
```



Page not found (404)

Request Method: GET
Request URL: http://localhost/

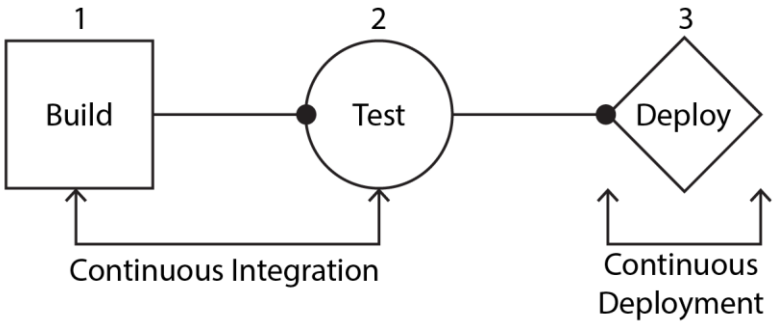
Using the URLconf defined in `CoreRoot.urls`, Django tried these URL patterns, in this order:

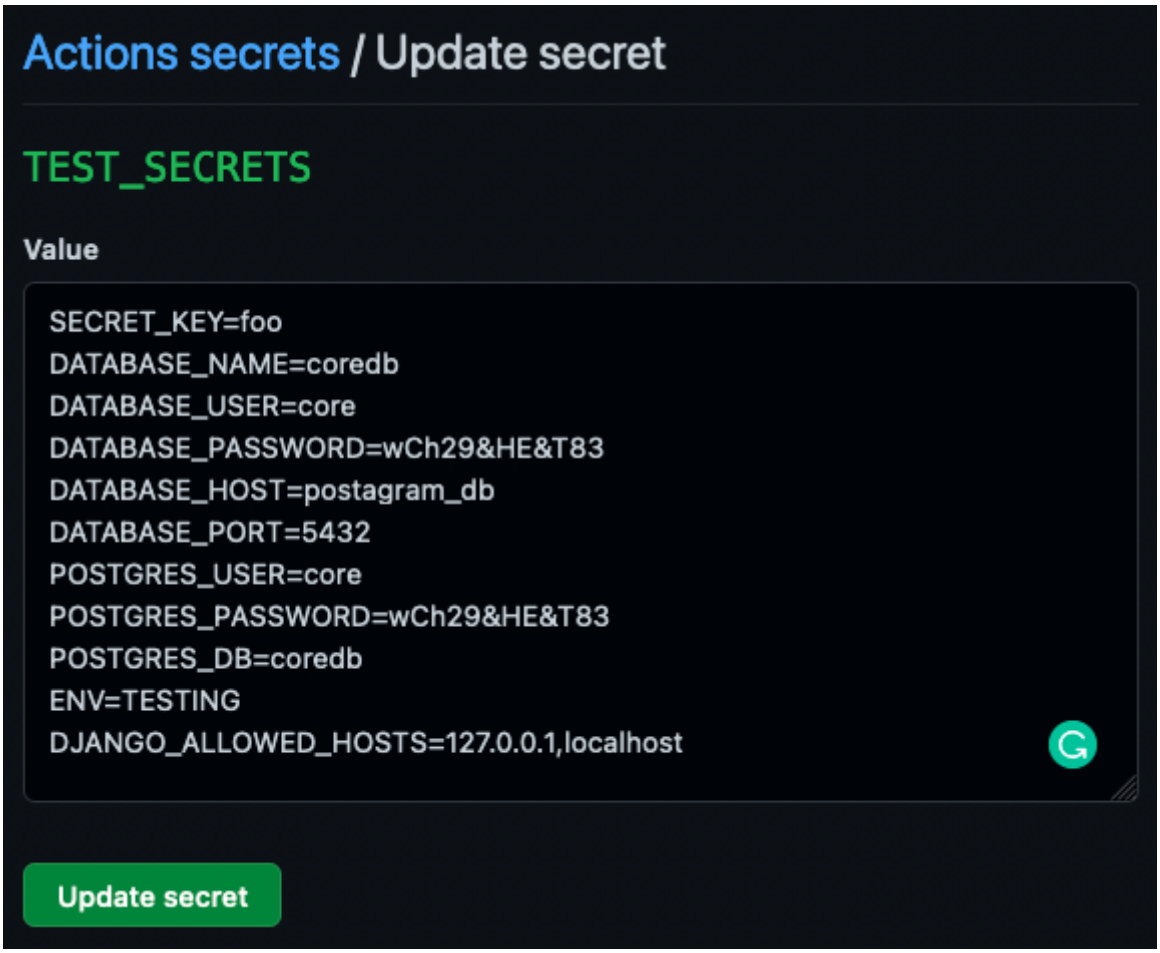
1. admin/
2. api/
3. ^media/(?P<path>.*)$

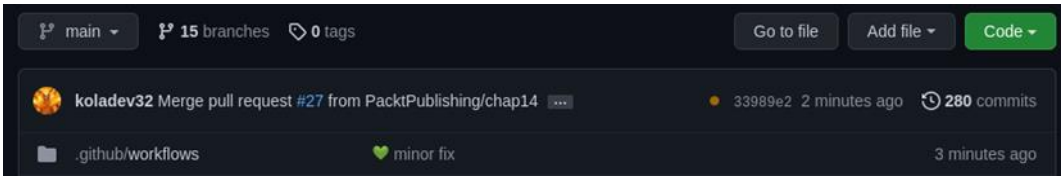
The empty path didn't match any of these.

You're seeing this error because you have `DEBUG = True` in your Django settings file. Change that to `False`, and Django will display a standard 404 page.

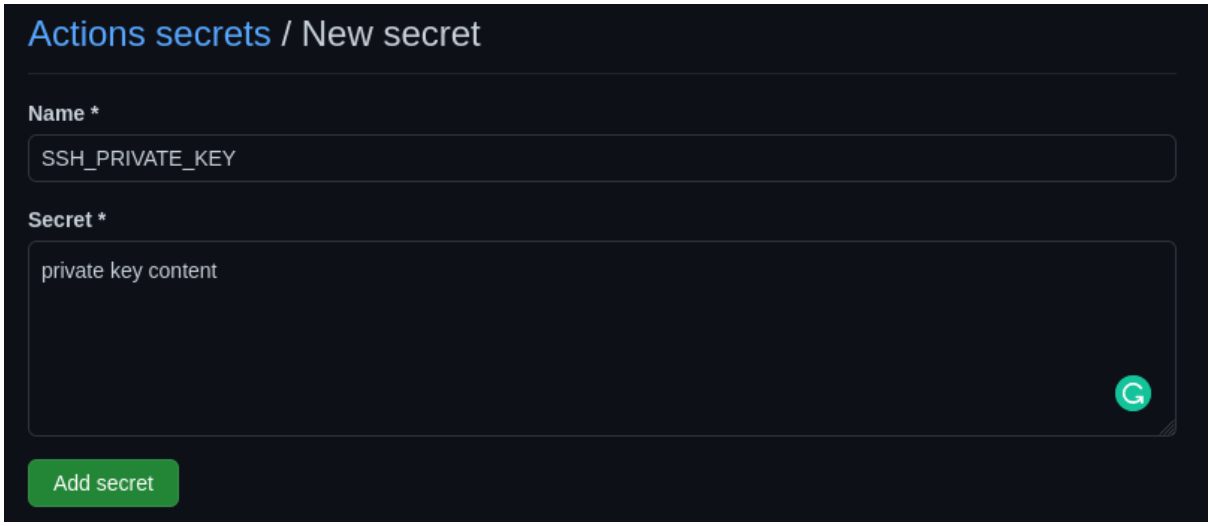
Chapter 14: Automating Deployment on AWS

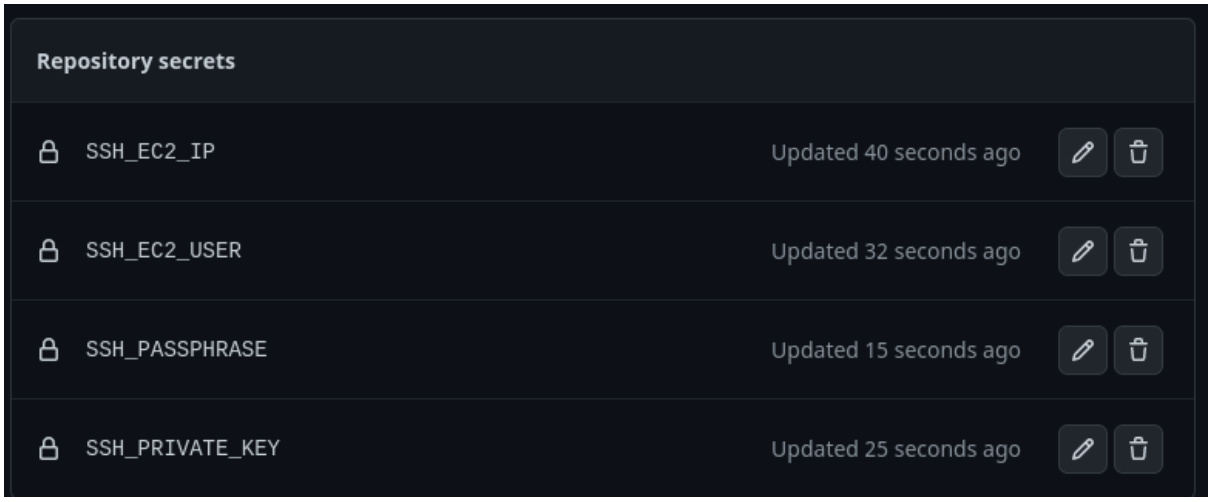


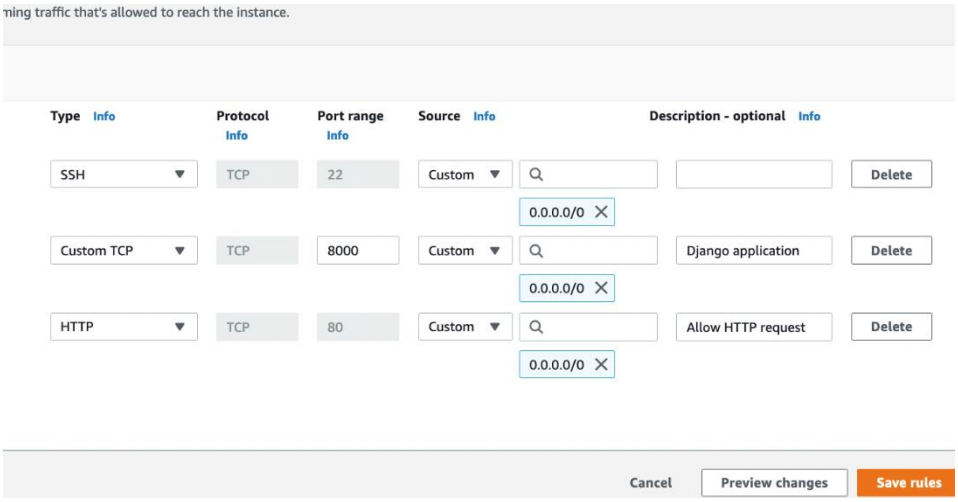




```
koladev@koladev123xxx:~$ ssh-keygen -t rsa -b 4096 -C "your_email@example.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/home/koladev/.ssh/id_rsa): postagramapi
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in postagramapi
Your public key has been saved in postagramapi.pub
The key fingerprint is:
SHA256:S8j87XJkISvFb67JrvcKFT8+glW7PGoh1QX9f7XolJA your_email@example.com
The key's randomart image is:
+---[RSA 4096]----+
|          .o     |
|            o    |
|       .......   |
|     o .=+oE  . .|
|      +oS++.. o.o|
|      o*o==o + .o|
|      oo+*B o   .|
|       o+=oo .   |
|      .=B*o      |
+----[SHA256]-----+
```

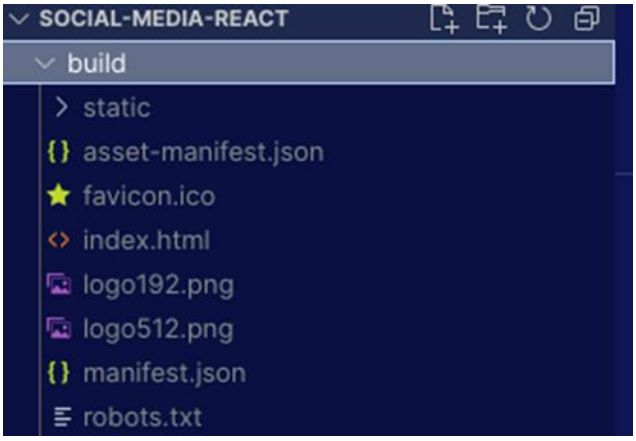


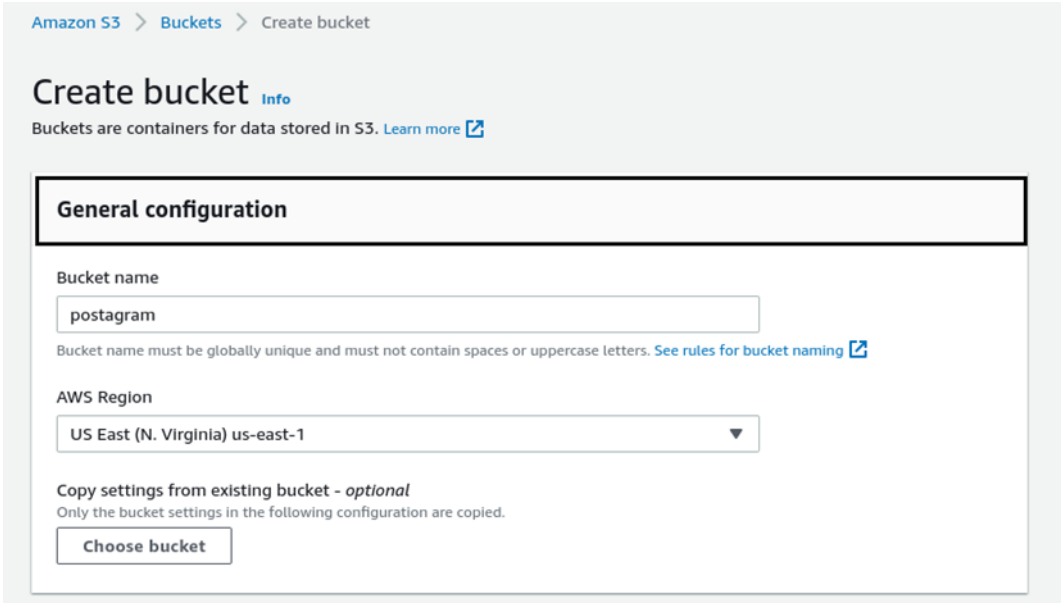

Repository secrets
SSH_EC2_IP
Updated 40 seconds ago
SSH_EC2_USER
Updated 32 seconds ago
SSH_PASSPHRASE
Updated 15 seconds ago
SSH_PRIVATE_KEY
Updated 25 seconds ago

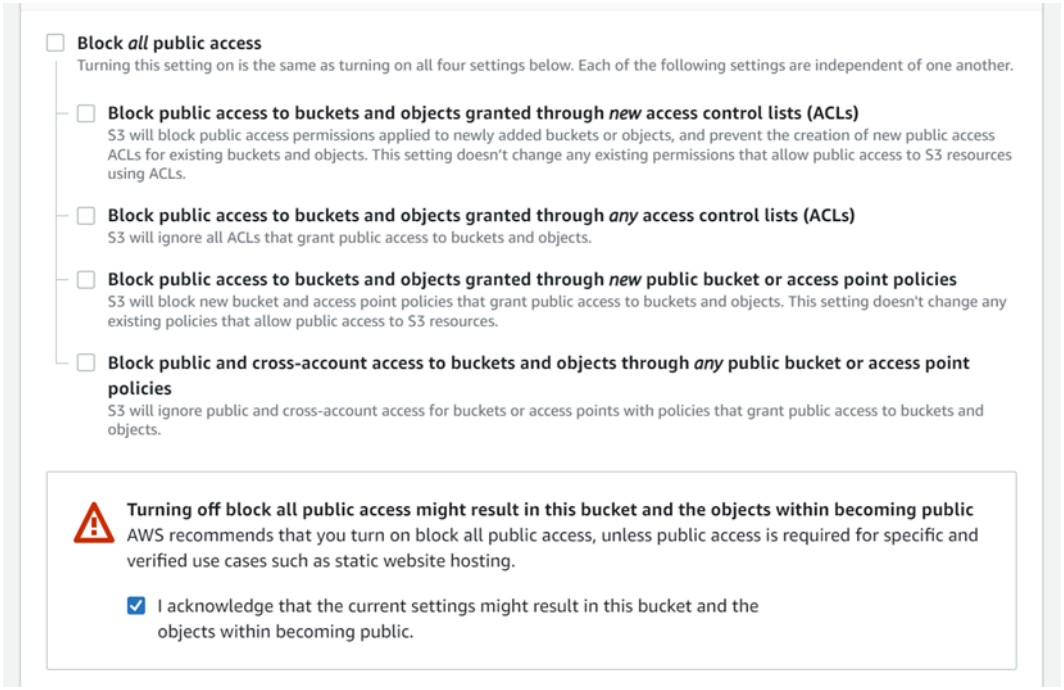

ning traffic that's allowed to reach the instance.
Type Info
Protocol Info
Port range Info
Source Info
Description - optional Info
SSH
TCP
22
Custom
0.0.0.0/0
Delete
Custom TCP
TCP
8000
Custom
0.0.0.0/0
Django application
Delete
HTTP
TCP
80
Custom
0.0.0.0/0
Allow HTTP request
Delete
Cancel
Preview changes
Save rules

Chapter 15: Deploying Our React App on AWS

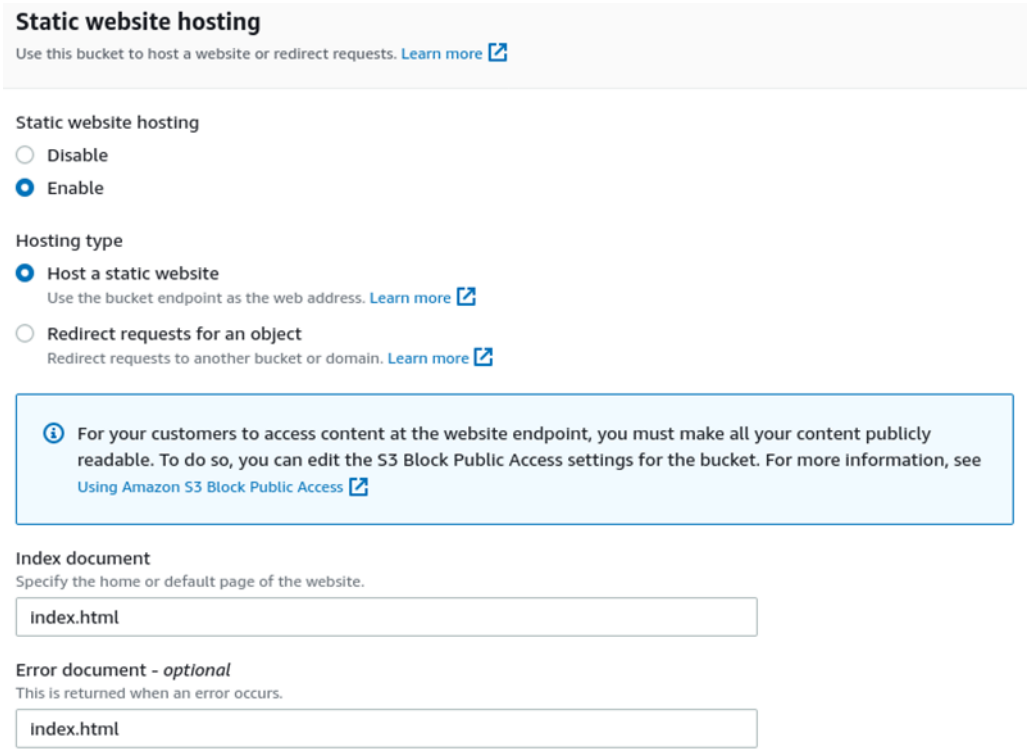
```
koladev@koladev123xxx:~/Full-stack-Django-and-React/social-media-react$ yarn build
yarn run v1.22.17
$ react-scripts build
Creating an optimized production build...
Compiled successfully.

File sizes after gzip:

  105.01 kB (-22 B)  build/static/js/main.6131d0b4.js
  27.84 kB (-43 B)   build/static/css/main.ff2a2b38.css

The project was built assuming it is hosted at /.
You can control this with the homepage field in your package.json.

The build folder is ready to be deployed.
You may serve it with a static server:

  yarn global add serve
  serve -s build

Find out more about deployment here:

  https://cra.link/deployment

Done in 27.90s.
```

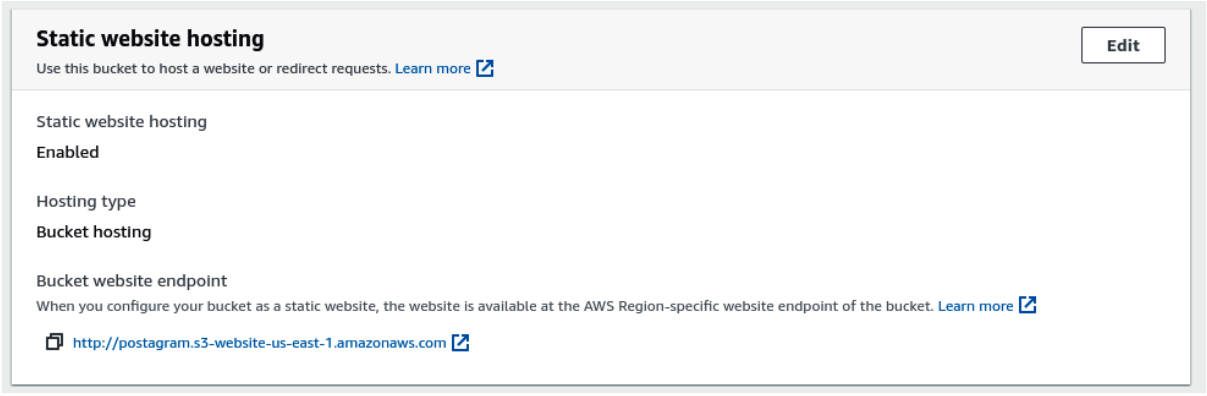


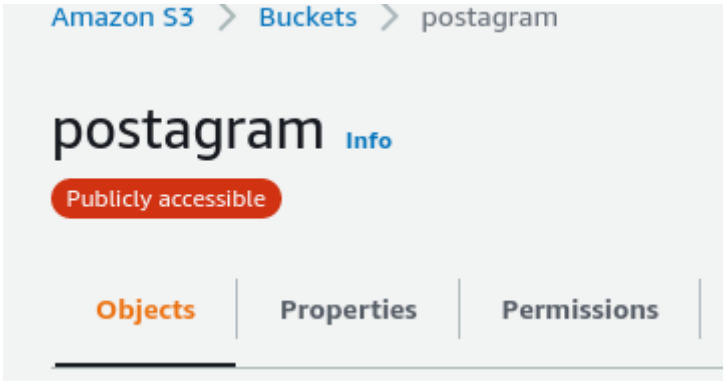

Amazon S3 > Buckets > Create bucket
Create bucket Info
Buckets are containers for data stored in S3. Learn more
General configuration
Bucket name
postagram
Bucket name must be globally unique and must not contain spaces or uppercase letters. See rules for bucket naming
AWS Region
US East (N. Virginia) us-east-1
Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.
Choose bucket


Block all public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.
Block public access to buckets and objects granted through new access control lists (ACLs)
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
Block public access to buckets and objects granted through any access control lists (ACLs)
S3 will ignore all ACLs that grant public access to buckets and objects.
Block public access to buckets and objects granted through new public bucket or access point policies
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
Block public and cross-account access to buckets and objects through any public bucket or access point policies
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.
Turning off block all public access might result in this bucket and the objects within becoming public
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.
I acknowledge that the current settings might result in this bucket and the objects within becoming public.

Viewer
Viewer protocol policy
HTTP and HTTPS
Redirect HTTP to HTTPS
HTTPS only
Allowed HTTP methods
GET, HEAD
GET, HEAD, OPTIONS
GET, HEAD, OPTIONS, PUT, POST, PATCH, DELETE
Cache HTTP methods
GET and HEAD methods are cached by default.
OPTIONS
Restrict viewer access
If you restrict viewer access, viewers must use CloudFront signed URLs or signed cookies to access your content.
No
Yes


Static website hosting
Use this bucket to host a website or redirect requests. Learn more
Static website hosting
Disable
Enable
Hosting type
Host a static website
Use the bucket endpoint as the web address. Learn more
Redirect requests for an object
Redirect requests to another bucket or domain. Learn more
For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see Using Amazon S3 Block Public Access
Index document
Specify the home or default page of the website.
index.html
Error document - optional
This is returned when an error occurs.
index.html


Static website hosting
Use this bucket to host a website or redirect requests. Learn more
Edit
Static website hosting
Enabled
Hosting type
Bucket hosting
Bucket website endpoint
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. Learn more
http://postagram.s3-website-us-east-1.amazonaws.com



Objects (8)

Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more

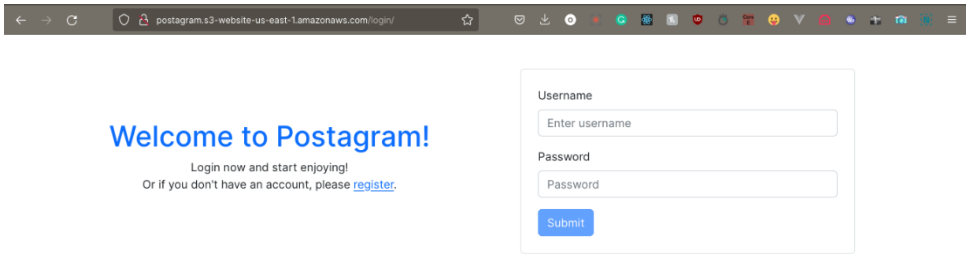
Copy S3 URI | Copy URL | Download | Open | Delete | Actions

Create folder | Upload

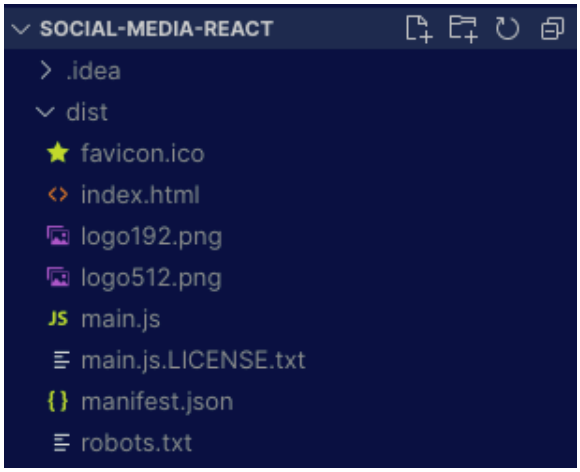
Find objects by prefix

1

Name	Type	Last modified	Size	Storage class
asset-manifest.json	json	October 25, 2022, 23:45:35 (UTC+01:00)	369.0 B	Standard
favicon.ico	ico	October 25, 2022, 23:45:44 (UTC+01:00)	3.8 KB	Standard
index.html	html	October 25, 2022, 23:45:37 (UTC+01:00)	644.0 B	Standard
logo192.png	png	October 25, 2022, 23:45:43 (UTC+01:00)	5.2 KB	Standard
logo512.png	png	October 25, 2022, 23:45:41 (UTC+01:00)	9.4 KB	Standard
manifest.json	json	October 25, 2022, 23:45:40 (UTC+01:00)	492.0 B	Standard
robots.txt	txt	October 25, 2022, 23:45:38 (UTC+01:00)	67.0 B	Standard
static/	Folder	-	-	-



Chapter 16: Performance, Optimization, and Security




```
koladev@koladev123xxx:~/PycharmProjects/Full-stack-Django-and-React/social-media-react$ pnpm import
 WARN  `node_modules` is present. Lockfile only installation will make it out-of-date
 WARN  Could not find preferred package /fsevents/2.3.2 in lockfile
 WARN  Could not find preferred package /fsevents/2.3.2 in lockfile
 WARN  Could not find preferred package /fsevents/2.3.2 in lockfile
 WARN  Could not find preferred package /fsevents/2.3.2 in lockfile
 WARN  4 other warnings
 WARN  deprecated svgo@1.3.2: This SVGO version is no longer supported. Upgrade to v2.x.x.
 WARN  deprecated stable@0.1.8: Modern JS already guarantees Array#sort() is a stable sort, so this library is deprecated. See the compatibility table on MDN: https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/sort#browser_compatibility
 WARN  deprecated w3c-hr-time@1.0.2: Use your platform's native performance.now() and performance.timeOrigin.
Progress: resolved 1142, reused 1141, downloaded 0, added 0, done
```

CloudFront > Distributions > create

Create distribution

Origin

Origin domain

Choose an AWS origin, or enter your origin's domain name.

postagram.s3.us-east-1.amazonaws.com

Origin path - *optional* Info

Enter a URL path to append to the origin domain name for origin requests.

Enter the origin path

Name

Enter a name for this origin.

postagram.s3.us-east-1.amazonaws.com

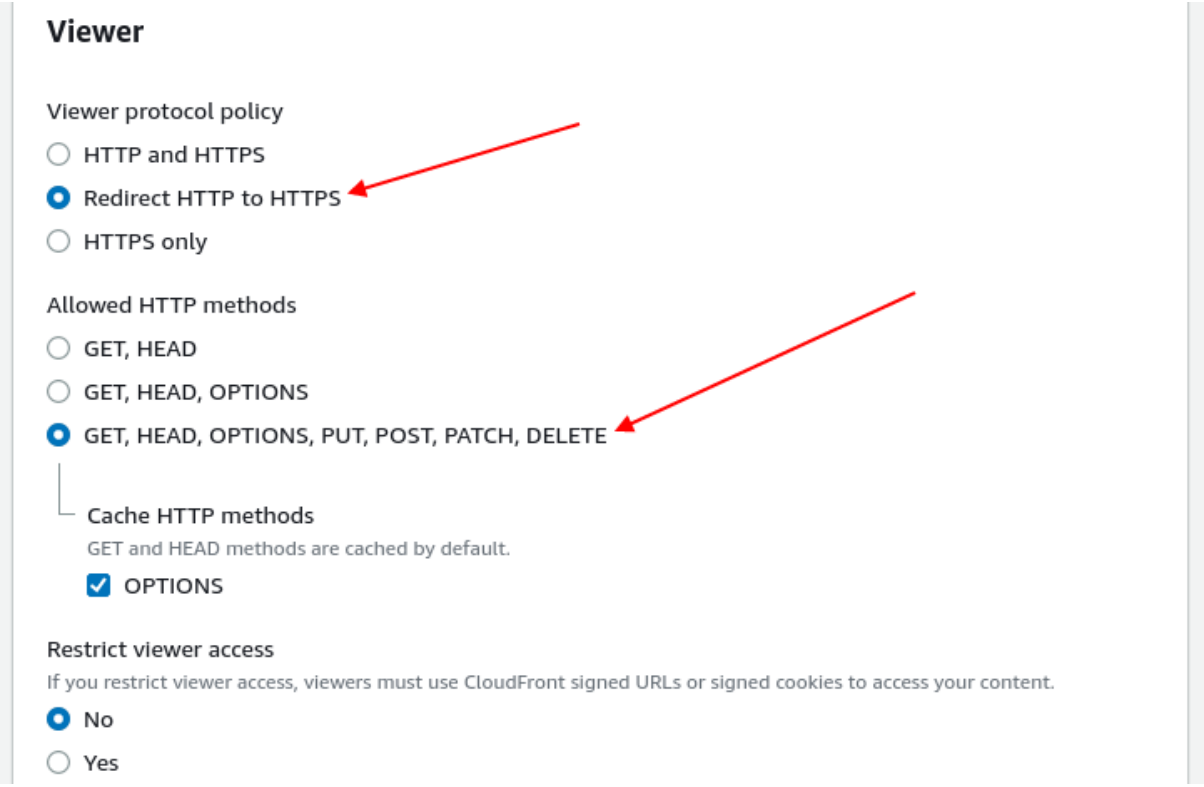
Origin access Info

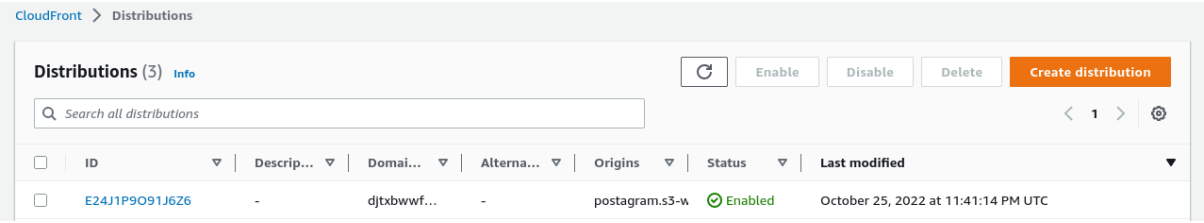
- (•) Public
  Bucket must allow public access.
- ( ) Origin access control settings (recommended)
  Bucket can restrict access to only CloudFront.
- ( ) Legacy access identities
  Use a CloudFront origin access identity (OAI) to access the S3 bucket.

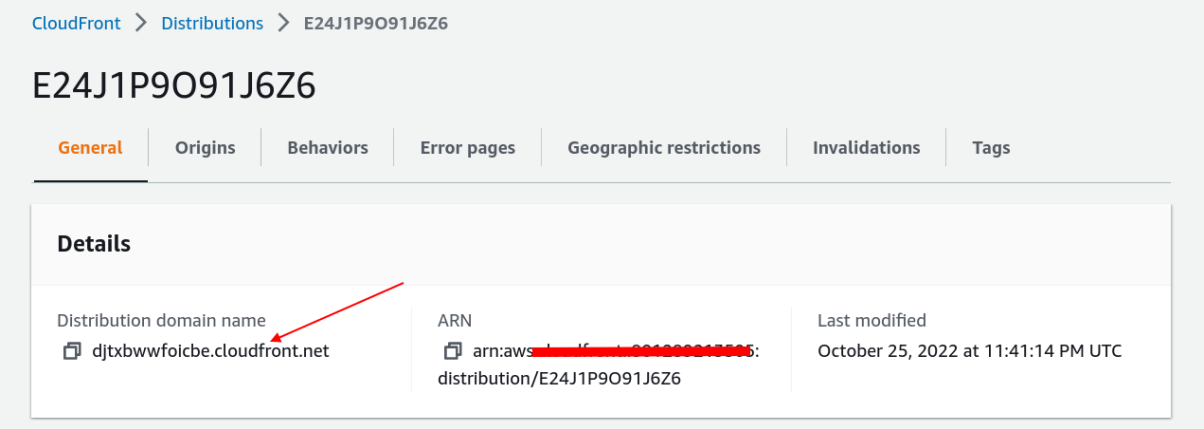
Add custom header - *optional*

CloudFront includes this header in all requests that it sends to your origin.

Add header


Viewer
Viewer protocol policy
HTTP and HTTPS
Redirect HTTP to HTTPS
HTTPS only
Allowed HTTP methods
GET, HEAD
GET, HEAD, OPTIONS
GET, HEAD, OPTIONS, PUT, POST, PATCH, DELETE
Cache HTTP methods
GET and HEAD methods are cached by default.
OPTIONS
Restrict viewer access
If you restrict viewer access, viewers must use CloudFront signed URLs or signed cookies to access your content.
No
Yes


CloudFront > Distributions
Distributions (3) Info
Enable
Disable
Delete
Create distribution
Search all distributions
ID
Descrip...
Domai...
Alterna...
Origins
Status
Last modified
E24J1P9O91J6Z6
-
djtxbwwf...
-
postagram.s3-w
Enabled
October 25, 2022 at 11:41:14 PM UTC


CloudFront > Distributions > E24J1P9O91J6Z6
E24J1P9O91J6Z6
General
Origins
Behaviors
Error pages
Geographic restrictions
Invalidations
Tags
Details
Distribution domain name
djtxbwwfoicbe.cloudfront.net
ARN
distribution/E24J1P9O91J6Z6
Last modified
October 25, 2022 at 11:41:14 PM UTC