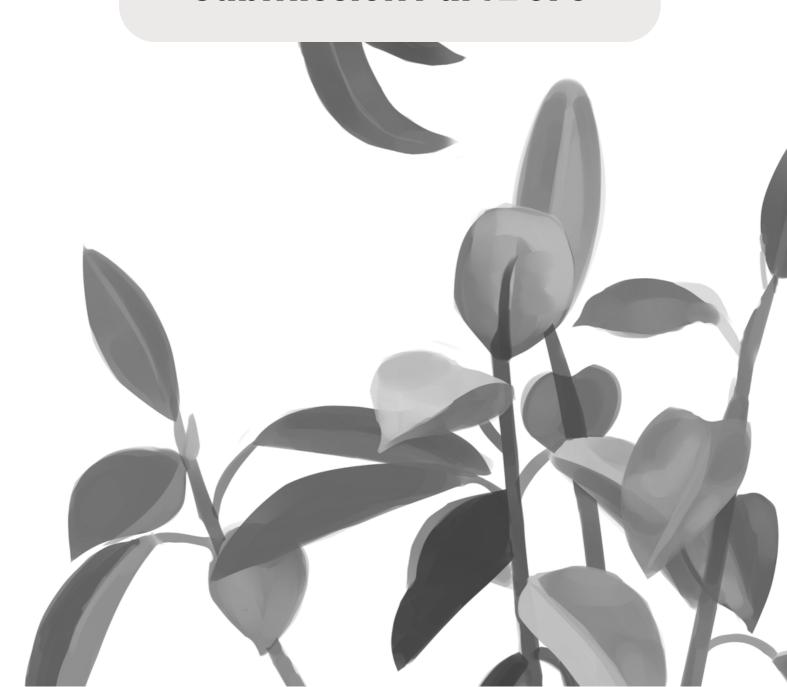


# Part A

DRF Project
Submission Part 2 of 3



## **Project Requirements**

SHE{CODES} Plus

## **Project: Crowdfunding**

## **Project Description**

Kickstarter, Go Fund Me, Kiva, Change.org, Patreon... All of these different websites have something in common: they provide a platform for people to fund projects that they believe in, but they all have a slightly different approach. You are going to create your own crowdfunding website, and put your own spin on it!

## **Project Requirements**

Your crowdfunding project must:

- ✓ Be separated into two distinct projects: an API built using the Django Rest Framework and a website built using React.
- ✓ Have a cool name, bonus points¹ if it includes a pun and/or missing vowels. See <a href="https://namelix.com/">https://namelix.com/</a> for inspiration.
- ✓ Have a clear target audience.
- - √ Username

  - Password
- Ability to create a "project" to be crowdfunded which will include at least the following attributes:

  - ✓ Title ✓ Owner (a user)
  - √ Description
  - √ Image
  - Target amount to fundraise
  - ✓ Whether it is currently open to accepting new supporters or not
  - ✓ When the project was created
- ✓ Ability to "pledge" to a project. A pledge should include at least the following attributes:
  - ✓ An amount
  - √ The project the pledge is for
  - The supporter/user (i.e. who created the pledge)
  - Whether the pledge is anonymous or not
  - ✓ A comment to go along with the pledge
- √ Implement suitable update/delete functionality, e.g. should a project owner be allowed to update a project description?
- √ Implement suitable permissions, e.g. who is allowed to delete a pledge?
- Return the relevant status codes for both successful and unsuccessful requests to the API.
- Handle failed requests gracefully (e.g. you should have a custom 404 page rather than the default error page).
- Use Token Authentication.
- Implement responsive design.

#### **Additional Notes**

No additional libraries or frameworks, other than what we use in class, are allowed unless approved by the Lead Mentor.

<sup>&</sup>lt;sup>1</sup> Bonus points are meaningless.

## **Project Submission Details**

#### SHE{CODES} Plus

Note that while this is a crowdfunding website, actual money transactions are out of scope for this project.

#### MVP Plan Submission

Please submit the following:

- The title of your website.
- ✓ A paragraph detailing the purpose and target audience for your website.
- ✓ The features your MVP will include.
- ✓ At least 3 additional features you would like to include if you reach your MVP.
- An API specification.
- A database schema.
- Wireframes. mood-board instead
- ✓ Colour Scheme.
- Heading and body font(s). mood-board instead

### Part A Submission

Please submit the following:

- A link to the GitHub repository containing the code for your project.
- A link to the deployed project.
- A screenshot of Insomnia, demonstrating a successful GET method for any endpoint.
- A screenshot of Insomnia, demonstrating a successful POST method for any endpoint.
- ✓ A screenshot of Insomnia, demonstrating a token being returned.
- Step by step instructions for how to register a new user and create a new project (i.e. endpoints and body data).
- Your refined API specification and Database Schema.

#### Part B Submission

Please submit the following:

- A link to the GitHub repository containing the code for your project.
- A link to the deployed project.
- A screenshot of the home page.
- A screenshot of the project creation form.
- A screenshot of a project with pledges.
- A screenshot of the resulting page when an unauthorized user attempts to edit a project.

## **GitHub Project Repo**

https://github.com/SheCodesAus/she-codescrowdfunding-api-project-Ms-KL



## Fly.dev Deployed Project

https://icy-dew-540.fly.dev/projects/

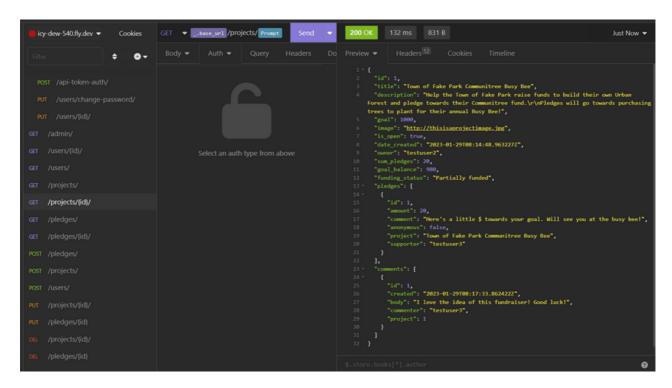


## Insomnia

### See also:

https://github.com/SheCodesAus/she-codes-crowdfunding-api-project-Ms-KL/tree/main/project\_submission/Part%20A%20Submission

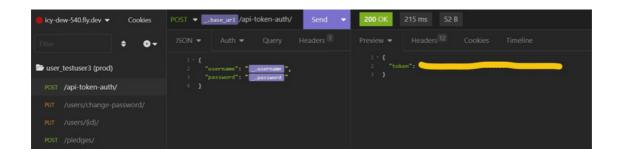
## **GET**



## **POST**



## **TOKEN**



## **Documentation**

#### See also:

https://github.com/SheCodesAus/she-codes-crowdfundingapi-project-Ms-KL#documentation

#### **Create User**

```
curl --request POST \
    --url https://icy-dew-540.fly.dev/users/ \
    --header 'Content-Type: application/json' \
    --data '{
        "username": "<insert_unique_username>",
        "email": "<insert_unique_email>",
        "password":"<insert_password>",
        "bio":"<insert_bio>",
        "avatar":"<insert_url_to_image>"
}'
```

## Sign in User

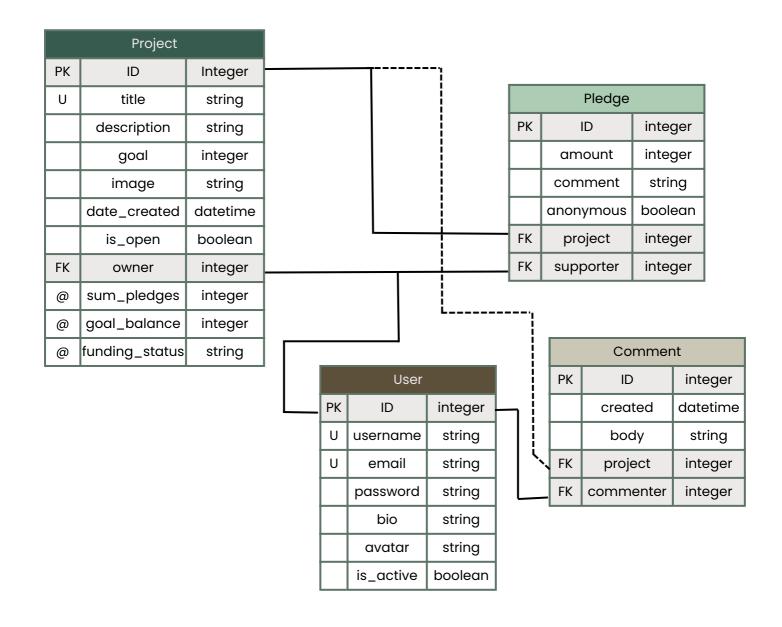
```
curl --request POST \
  --url https://icy-dew-540.fly.dev/api-token-auth/ \
  --header 'Content-Type: application/json' \
  --data '{
    "username": "<insert_unique_username>",
    "password": "<insert_password>"
}'
```

## **Create Project**

```
curl --request POST \
--url https://icy-dew-540.fly.dev/projects/ \
--header 'Content-Type: application/json' \
--data '{
    "title": "<unique_title>",
    "description": "<project_description>",
    "goal": <integer>,
    "image": "<image_url>",
    "is_open": <boolean>,
    "date_created": "<auto_filled as today>"
}'
```

# Project Database Schema (Final)

PK: Primary Key | U: Unique | FK: Foreign Key | @: Property



# **Project API Specification (Final)**

HTTP Method	URL	Purpose	Request Body	Successful Response Code	Auth
GET	/projects/	Returns all projects.		200	N/A
POST	/projects/	Create a new project.	{   "title": "First Project",   "description": "This is a project",   "goal": 10,   "image": "http://image.jpg",   "is_open": true,   "date_created": "2023-01-29T09:50:24.154Z" }	201	Logged In
GET	/projects/1/	Returns the project with ID of "1".		200	N/A
PUT	/projects/1/	Updates the project with ID of "1".	{   "title": "First Project",   "description": "This is a project",   "goal": 10,   "image": "http://image.jpg",   "is_open": true }	200	Logged In Project Owner
DELETE	/projects/1/	Deletes the project with ID of "1".		200	Logged In Project Owner
POST	/pledges/	Create a new pledge.	{   "amount": 50,   "comment": "Good luck!",   "anonymous": false,   "project": "Bananas" }'	201	Logged In Pledge Owner
GET	/pledges/1/	Get the pledge with ID of "1".	{     "amount": 10,     "comment": "I have a dog",     "anonymous": false,     "project": "project title",     "supporter": "username" }	200	N/A
DELETE	/pledges/1/	Deletes the pledge with ID of "1".		200	Logged In Pledge Owner
PUT	/pledges/1/	Updates the pledge with ID of "1"	{   "comment": "I have a dog",   "anonymous": false,   "project": "project title" }	200	Logged In Pledge Owner
GET	/users/	Returns all users.		200	N/A
POST	/users/	Create a new user	{   "username": "exampleuser",   "email": "example@example.com",   "password": "passwordthingy",   "bio": "Insert bio",   "avatar": "https://image.jpg" }	201	N/A
PUT	/users/2/	Updates the user with ID of "2".	{   "username": "exampleuser",   "email": "example@example.com",   "is_active":true,   "bio":"Insert bio",   "avatar":"https://image.jpg" }	200	Logged In user
POST	/api-token-auth/	creates token	{ "username": " <insert_unique_username>", "password": "<insert_password>" }</insert_password></insert_unique_username>	201	N/A

# **Project API Specification (cont...)**

HTTP Method	URL	Purpose	Request Body	Successful Response Code	Auth
PUT	/users/change- password/	changes password	{ "old_password": "thisoldpassword", "new_password": "thisnewpassword" }	200	Logged In user
GET	/comments/	Returns all comments.		200	N/A
POST	/comments/	Create a new comment.	{   "body": "Great Work!",   "project": 2 }	201	Logged In
GET	/comments/1/	Returns the comment with ID of "1".		200	N/A
PUT	/comments/1/	Updates the comment with ID of "1".	{   "body": "Great Work!",   "project": 2 }	200	Logged In Comment Owner
DELETE	/comments/1/	Deletes the comment with ID of "1".		200	Logged In Comment Owner
GET	projects/? is_open=&owner=	Django-filter returning chosen field values		200	N/A
GET	/pledges/? supporter=&project=	Django-filter returning chosen field values		200	N/A

## **Additional Features Achieved**

## **Filter Pledges and Projects**

Filter pledges by supporter and project. Filter projects by is\_open and owner.

## **User Fields and History**

First Name, Last Name, Bio and Avatar added. User Comments, Pledges and Projects history listed in Custom User Detail

## **Change Password**

Change password functionality added

## **Comments**

Comments feature added for users to interact with project

## **Pledge and Comment History**

Pledge and Comment List displayed in Project Detail

## Unique field value restrictions

project.title, user.email, user.username restricted; must be unique: throws integrity error with re-entry trigger if not unique

## **Properties added**

sum\_pledge, goal\_balance & funding\_status added in Project Detail