Setting up the React Native development environment

Cloning the Project

1. Clone the marvel-api-mobile-app from the GitHub repository. Run the command below

> git clone https://github.com/taba-andrade/marvel-api-mobile-app.git

Setting Up Python and Django

1. Install Python

> Go to https://www.python.org/downloads/ to download and install Python

2. Open the terminal (macOS) or command prompt (Windows) and run the commands below to upgrade pip and install virtualenv

```
python -m pip install --upgrade pip

pip install virtualenv
```

3. CD into your project's directory "marvel-api-mobile-app/backend" and run the command below to create a new Python virtual environment

```
virtualenv venv
```

4. Activate the new Python virtual environment with the command below -- You should see (venv) in your terminal or command prompt (Windows) when the virtual environment is active

```
source venv/bin/activate (macOS)

venv\Scripts\activate (Windows)
```

5. Make sure you are still CD'ed into "marvel-api-mobile-app/backend" and install Django and package dependencies from requirements.txt by running the command below

```
pip install -r requirements.txt
```

6. You will need to generate a new Django secret key to add to your project. Make sure you are still cd'ed into "marvel-api-mobile-app/backend" and run the commands below and record the newly created Django secret key to be added in step (7):

```
python manage.py shell [enter]

from django.core.management.utils import get_random_secret_key [enter]

print(get_random_secret_key()) [enter]

quit() [enter]
```

Note: make sure you remove the trailing # comment (if one exists) from the secret key before applying it in the next step.

7. Create a file named ".env" in the "marvel-api-mobile-app/backend/marvel" folder to hold your Django secret key as well as your public and private Marvel API keys. The file should look something like this:

```
SECRET_KEY=ksoldkj-9^oiksd(oplsk!@4! dlhkm8t!*9l+^polksi
PUBLIC_KEY=5a9563s6955s6fd9ac92f688
PRIVATE_KEY=12f8fd93337854e38ee1921a9461c88981945c
```

8. Run the commands below to setup Django admin models

```
python manage.py makemigrations

python manage.py migrate
```

9. Create a new super user account to logon to Django Admin
   with the command below

   ```
   python manage.py createsuperuser
   ```

Running your Django application

1. Start the Django server with the command below

   ```
   python manage.py runserver your_ip_address:8000
   ```

2. You should now be able to access your Django admin
   dashboard and the API endpoints below

   http://your_ip_address:8000/admin (Django Admin Dashboard)
   http://your_ip_address:8000/api/characters/
   http://your_ip_address:8000/api/comics/{character_id}/
   http://your_ip_address:8000/api/character-
   search/{character_name}/

Setting Up NodeJS and React Native

1. Install Node.js

   Browse to https://nodejs.org/en/download/ to install the latest LTS version

2. Open the cloned project in VSCode and cd into "marvel-api-
   mobile-app/frontend". Once in that directory do this:

   a) Delete the files package-lock.json and yarn.lock

   b) Run the command: **npm install**

<u>Running your React Native application</u>

Install the [Expo Go](#) app on your iOS or Android phone and connect to the same wireless network as your computer. On Android, use the Expo Go app to scan the QR code from your terminal to open your project. On iOS, use the built-in QR code scanner of the default iOS Camera app.

1. To start your React Native app, run the command:

> a) Make sure your Django "backend" server is running
>
> b) Run the command: **npx expo start** # you can also use: npm