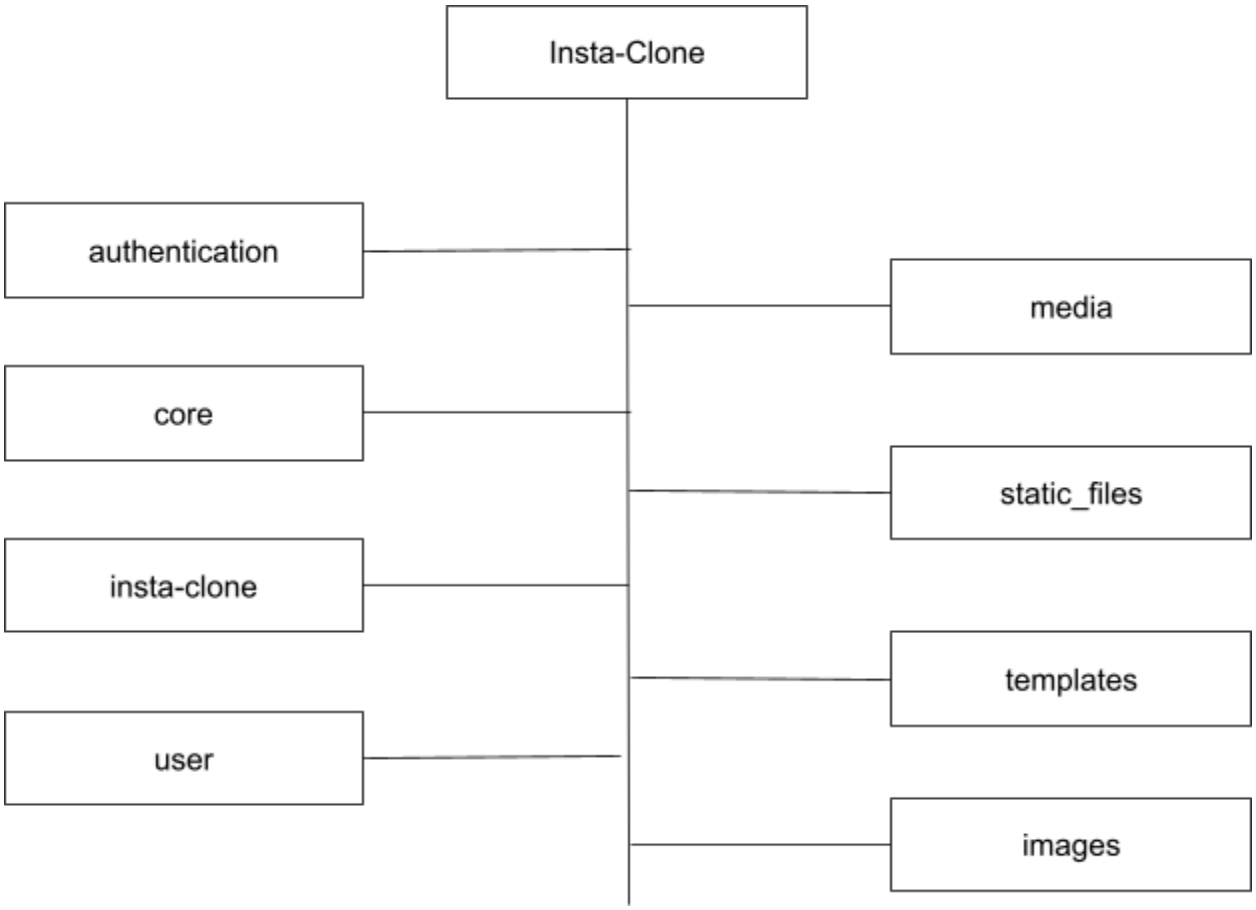
Below is the file directory structure for the insta-clone project, now we will see in detail what all files are present in those folders and how they are connected with each other.



Now all the folders on the left are the main folders that contain the actual logic and implementation of the whole application.
And the folders on the right are related to files like media and static.

Now let's talk about all the apps one by one

1. **Authentication**

authentication
├── admin.py
├── apps.py
├── forms.py
├── __init__.py
├── migrations

```
│   │   ├── __init__.py
│   ├── models.py
│   ├── urls.py
│   └── views.py
```

Here we can **ignore** the folders **migrations and __pycache__** because these are just the different database migrations done for the local storage.

Now, this app is the implementation of **authentication and authorization** part where we implement the functionalities like -

- Sign in
- Sign out
- Forgot password or Reset part

All the relevant endpoints can be seen in the **urls.py** file and all the implementation and the logic for those endpoints can be seen in the **views.py** file.

2. **Core**

```
core
├── admin.py
├── apps.py
├── forms.py
├── __init__.py
├── models.py
├── urls.py
└── views.py
```

Here we can **ignore** the folders **migrations and __pycache__** because these are just the different database migrations done for the local storage.

This app implements the **core** functionality of the complete application and handles the functionalities like -

- Home view for logged-in users.
- Follow and Unfollow someone.
- Create a post.
- Save a post.
- Unsave a post.
- Like a post.
- Comment on a post.
- Delete comment.
- Explore view page.

All the relevant endpoints can be seen in the **urls.py** file and all the implementation and the logic for those endpoints can be seen in the **views.py** file.

Here in the **models.py** file, we will be able to see all of the **database models** which are getting saved in the end and from which we are fetching data for comparison or for logic.

3. **insta-clone**

insta_clone
├── asgi.py
├── __init__.py
├── settings.py
├── urls.py
└── wsgi.py

Here we can **ignore** the folders **migrations and __pycache__** because these are just the different database migrations done for the local storage.

Now, this is the default app that is generated when we create our project. What is t's use then? So basically it's the main app where **all the requests first register** and from here on it's **redirected to its original place**.
It consists of an important file which is the **settings.py** file and it's the important of all because we have to register all of our apps in our settings file so that Django can recognize it, also the setting of the database is also done here.

Firstly the endpoint requests come to its **urls.py** file and from there it's redirected to its relevant space or you can say the relevant app.

4. **user**

user
├── admin.py
├── apps.py
├── forms.py
├── __init__.py
├── managers.py
├── models.py
├── urls.py
└── views.py

Here we can **ignore** the folders **migrations and __pycache__** because these are just the different database migrations done for the local storage.

In this particular app, we have taken care of the **user model** as we have customized it according to our needs to get the relevant user data. You can check the **models.py** file to see the complete model.
Some of the functionalities are

- Seeing everyone's profile
- Seeing your profile
- Edit your profile

All the relevant endpoints can be seen in the **urls.py** file and all the implementation and the logic for those endpoints can be seen in the **views.py** file.

5. **templates**

templates
├── authentication
│ ├── base.html
│ ├── components
│ │ └── no_login_navbar.html
│ ├── password_change_done.html
│ ├── password_change.html
│ ├── password_reset_complete.html
│ ├── password_reset_confirm.html
│ ├── password_reset_done.html
│ ├── password_reset_email.html
│ ├── password_reset.html
│ ├── signin.html
│ └── signup.html
├── components
│ ├── navbar.html
│ ├── post_card.html
│ └── post_detail_card.html
├── core
│ ├── base.html
│ ├── feed.html
│ ├── liked_posts.html
│ ├── post_detail.html
│ ├── posts_explore.html
│ └── saved_posts.html
└── user
├── all_profiles.html
├── anonymous_profile.html
├── authenticated_profile.html
└── profile_edit.html

Templates contain all the **HTML** code which represents our frontend, it's divided in the subsection to the relevant apps.

6. **media**

```
media
├── post_images
│   ├── DSCLead-Certificate2021.png
│   ├── WhatsApp_Image_2021-05-14_at_10.43.24_PM.jpeg
│   ├── WhatsApp_Image_2021-05-19_at_7.34.20_PM.jpeg
│   ├── WhatsApp_Image_2021-05-21_at_11.11.19_PM.jpeg
│   └── WhatsApp_Image_2021-05-21_at_11.28.41_PM.jpeg
└── profile_pictures
    ├── cookin.jpg
    ├── WhatsApp_Image_2021-05-14_at_10.43.24_PM_7THIM49.jpeg
    ├── WhatsApp_Image_2021-05-14_at_10.43.24_PM.jpeg
    └── WhatsApp_Image_2021-05-21_at_11.15.49_PM.jpeg
```

Media contains all the images that the user uploads, it's a separate folder so that it'll be easy for us to put it directly to the relevant database in the future.

7. **static-files**

```
static_files
├── img
│   ├── appstore.png
│   ├── instalogo.png
│   ├── no-posts1.jpg
│   ├── no-posts2.jpg
│   ├── phone_img.png
│   └── playstore.png
└── styles
    ├── authentication
    │   ├── main.css
    │   ├── password_change.css
    │   ├── password_reset.css
    │   ├── signin.css
    │   └── signup.css
    ├── core
    │   ├── main.css
    │   ├── navbar.css
    │   └── post_card.css
    └── user
        ├── all_profiles.css
```

```
│       ├── profile.css
│       └── profile_edit.css
```

All the static files are listed here, which contains the CSS and the static images.

8. **images**

   This folder contains the relevant images which are used in the readme file.