**Contribution of Nethra Gunti (S20180010061):**

**Project Idea:**  To develop a multi-purpose web-application that can be used to for searching/gathering information about any domain, IP, email address, bitcoins, malware etc. The application entirely uses open source APIs for doing the job so that it does not violate any copyrights.

**Percentage of Project that has been completed:** Around 55% of the project has been completed.

**My Contributions to the Project:**

To begin with, I’m working on the backend part of the project. My major role is to integrate the Frontend and the API Logic with the backend. I have also created the entire Users authentication app and integrated it as well. I have also worked a litle on the signin/login page while integrating it with the app. Through the course of time, I’ve improved my django-skills and also learnt deployemnet by AWS.

Now, coming to the technical detials, here is a list of what I’ve been using

Environments: Pip installed virtualenv running on a Linux machine.

Languages and Frameworks: Django, Django-Rest. Also planning to use Django-Celery-Beat and Django-Allauth for periodiciting tasks and multi-platform authentication via social media.

Libraries: Several Django libraries and few Python libraries. Contrib.auth.models, Django forms, Mail servers, Django widgets being few of those.

Tasks Completed:

1. Authentication – Entire Users app: models, views, urls and redirecting upon successful task completion. (LOGIN/LOGOUT\_REDIRECT\_URL).

2. Registration- Made custom User models using AbstractUser from django models and Users.

3. Integrated Frontend with the django-codes while applying changes where required.

4. Made widgets for the django forms so the can be custom styled.

5. Half way through the ‘Reset-Password’ process.

6. Integrated the API-Logic as well with the main project.

7. Studied and practiced deployment by AWS.

Future Plans:

1. To make this app authenticable via any social media platform for which I plan on using one of the django frameworks like Allauth.

2. To make Social Media monitoring possible by creating Periodic tasks using Django-Celery.

3. Enabling SMS services and also comes with it optional Two-step login/verification process.

Problems Faced:

Getting hands-on experience in django sure wasnt a smooth sail due the huge number of files and totally alienated work flow. But gradually, I did start understanding how things work. I think it’s more important to have an idea about how something is gonna work even before you implement it.

The second thing which got to me was that a piece of code would work once fine, a subtle addition and it doesn’t work anymore even after I undo the changes.

During integration of the frontend, I first had to understand the huge layout and then start adding tags and comments and sometimes it would even mess up the whole page so they had to be studied thourougly. This was defenitely the most time taking part.

References:

Official Documentations

YouTube -- Corey Schafer

StackOverFlow

W3Schools

Thank You

Nethra Gunti