

# NSU STUDY PORTAL

## Weekly Progress Report

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Department of Electrical and Computer Engineering North South University

**CSE 299: Junior Project Design**

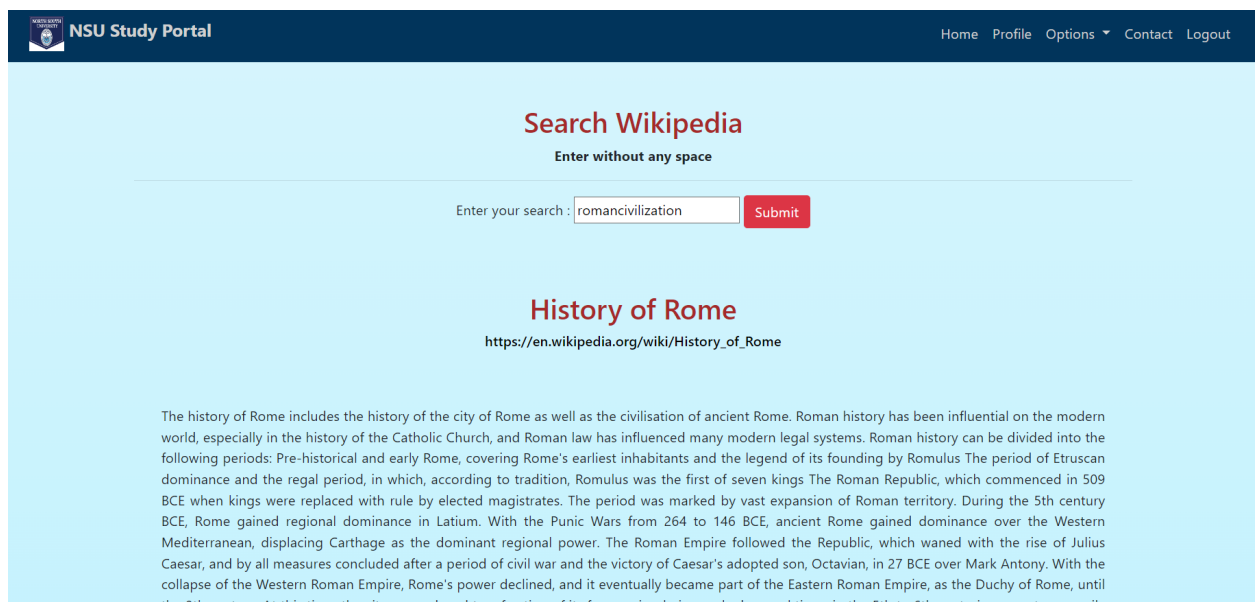
**Group Number- 3**

**Week – 3**

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# 1. PROGRESS & ACHIEVEMENTS

I have worked on Django views.py and models.py this week. Django views are Python functions that take http requests and return http response, like HTML documents. A web page that uses Django is full of views with different tasks and missions. Views are usually put in a file called **views.py** located on our app's folder. When we created the Django project, we got an empty default SQLite database. It was created in the CSE299 root folder. I have also used Youtube & Wikipedia API in the views.py file. Django REST Framework is a wrapper over default Django Framework, basically used to create APIs of various kinds. There are three stages before creating an API through REST framework, Converting a Model's data to JSON/XML format, Rendering this data to the view, Creating a URL for mapping to the viewset. I also used Django Crispy Form. Django-crispy-forms is an application that helps to manage Django forms.



```

@login_required
def wiki(request):
    if request.method=='POST':
        text=request.POST['text']
        form=DashboardForm(request.POST)
        search=wikipedia.page(text)
        context={
            'form':form,
            'title':search.title,
            'link':search.url,
            'details':search.summary
        }
        return render(request,'dashboard/wiki.html',context)
    else:
        form=DashboardForm()
        context={
            'form':form
        }
        return render(request,'dashboard/wiki.html',context)

```

## 2. OBSTACLES

I found some errors while working in the Django API. How do I use the API in Django? Firstly, Install and Set Up Django and DRF. I started by creating a Python virtual environment and activating it in the desired working directory. Then I Set Up the Django Models. Then, I set up Routers and Create API URLs. Lastly, I started using the API. I also faced some difficulty while working with Youtube API. I have to take the user input, then I have to set the API for Wikipedia title, link, details etc. Then I used Google Books API. After that, I will redirect to the wiki.html file. This API will fetch all the data from Google Book API. I used title, subtitle, description, count, categories, rating, thumbnail, preview etc to fetch the Google Book.

```

def books(request):
    if request.method=="POST":
        form=DashboardForm(request.POST)
        text=request.POST['text']
        url="https://www.googleapis.com/books/v1/volumes?q="+text
        r=requests.get(url)
        answer=r.json()
        result_list=[]
        for i in range(10):
            result_dict={
                'title':answer['items'][i]['volumeInfo']['title'],
                'subtitle':answer['items'][i]['volumeInfo'].get('subtitle'),
                'description':answer['items'][i]['volumeInfo'].get('description'),
                'count':answer['items'][i]['volumeInfo'].get('pageCount'),
                'categories':answer['items'][i]['volumeInfo'].get('categories'),
                'rating':answer['items'][i]['volumeInfo'].get('pageRating'),
                'thumbnail':answer['items'][i]['volumeInfo'].get('imageLinks').get('thumbnail'),
                'preview':answer['items'][i]['volumeInfo'].get('previewLink')
            }
            result_list.append(result_dict)
        context={

```

### 3. MILESTONES & REPORTING

Milestone	Tasks	Date
Week-1	Project Presentation about how our project will be done between this semester.	20-10-2022
Week-2	Sign up, Sign in page design & register-login functionality add to access the homepage.	03-11-2022
Week-3	Profile Page design, User Data Fetch.	10-11-2022
Week-4	Class Note Functionality, Fetch data & Admin Panel design.	17-11-2022
Week-5	Homework adds functionality, YouTube, Wiki page design.	24-11-2022
Week-6	YouTube Search, Wiki Search, Book Search.	01-12-2022
Week-7	Complain Page design & Functionality	08-12-2022
Week-8	Chat System	15-12-2022
Week-9	Final Demo + Report	22-12-2022