

# **Online Repository for Computer Engineering Department - Project Summary**

## **Project Overview**

The Online Repository for the Computer Engineering Department aims to address the challenges faced by the department in managing and accessing undergraduate project reports. This web application will leverage HTML, CSS, and Bootstrap for the user interface, and Django Framework for the backend.

## **Project Tasks**

### **1. Design Interface**

Design a user-friendly interface using HTML, CSS, and Bootstrap for a seamless user experience.

### **2. Django Project Setup**

Create a Django project to serve as the foundation for the web application.

### **3. APP Creation**

Divide the project into two Django apps:

Users App: Responsible for user registration and login authentication.

Dashboard App: Handles functionalities related to project reports and dashboard management.

### **4. User Registration and Login System**

Implement a robust user registration and login authentication system to ensure secure access to the web application.

## **5.CRUD for Administrator**

Utilize CRUD concepts to allow administrators to:

- Add project work reports in PDF format to the web application.

## **6. CRUD for Users**

Utilize CRUD concepts to allow users to:

- Read published project work reports.

## **7.Database Integration**

Utilize PostgreSQL as the database for the project to ensure efficient data management.

# **Development Workflow**

### **1.Interface Design:**

- Create responsive and visually appealing interfaces using HTML, CSS, and Bootstrap.

### **2.Django Project and APP Creation:**

- Set up the Django project and create separate apps for Users and Dashboard functionalities.

### **3.User Registration and Login:**

- Implement user registration and login functionalities for secure access.

### **4.Administrator CRUD:**

- Design forms and views to enable administrators to perform CRUD operations for project reports.

### **5.User CRUD:**

- Implement views and templates for users to read published project reports using CRUD concepts.

## **6.Database Integration:**

- Configure PostgreSQL as the project's database for efficient data storage and retrieval.

# **Getting Started**

## **Prerequisites**

- Python installed on the server.
- Django Framework installed (**pip install django**).
- Database setup (SQLite or other preferred database).

## **Installation**

1. Clone the repository:

git <https://github.com/AFIA-DABANKA/Ugspace.git>

2. Navigate to the project directory:

```
cd Ugspace
```

3. Install dependencies:

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

4. Run migrations:

```
python manage.py migrate
```

5. Start the development server:

```
python manage.py runserver
```

