

Assignment - Web Conveners

Institute Technical Council

Deadline: May 14th 2023, 11:59 PM

You can choose to do either Task 1 or Task 2. The following sub-tasks must be done in order. It will fetch you more points the more number of subtasks you do. There is also a Compulsory Task that only judges your designing skills. You are free to use any framework or just HTML, CSS, or JavaScript for this task.

COMPULSORY TASK (ONLY FOR TESTING DESIGNING SKILLS)

Redesign the ITC website's home page containing a navigation bar and any random information on the page (you can also take information from the current website (doesn't matter))

THE BEST DESIGN WILL BE INCORPORATED INTO THE ITC WEBSITE

For those who are interested in **backend development**

TASK-1 Create a **Django** app called project portal:

- It should contain a database containing the Project Names, Project details, project proposer name and people involved in the project (at least 2). **(15 points)**
- The website should display all the project names on its homepage and when clicking on a particular project name it should display a page containing all the other details mentioned in the point above. **(5 points)**
- The URLs of the webpages of each project should be dynamic i.e. contain the project ID (For example https://localhost:8000/project_drone) must display the details of the project with that particular Project name **(5 points)**
- Integrate Bootstrap with the HTML code **(10 points)**
- Create an API that returns all the projects of a given person (HINT: You can use roll no. for people involved in the project) **(20 points)**
- Create Rest API using DJANGO REST API which displays all the details from the database. **(20 points)**

For those who are interested in **frontend development**

TASK-2 Create a webapp app called Project Portal-frontend:

(use the latest version of AngularJs or React Js)

- Basic Login and Register Page. **(15 points)**
- Create components to display the navigation bar, all the project names and a pic of the project and the names of project members (creative designs will be given bonus points) **(15 points)**
- Integrate Bootstrap with Angular/React **(10 points)**

- Use routers to navigate between project pages and display only the details of that particular project when clicked on **(10 points)**
- In the navbar create a link for the Todo page where you have to call the API <https://jsonplaceholder.typicode.com/todos/> and display 50 objects. **(10 points)**

BONUS

Once you are done with Tasks 1 and Tasks 2, you can proceed to integrate your Task-2 app with Django Rest API to make the page dynamic. That is you display the details of the projects in the frontend app by sending requests to the backend through Django's Rest API feature. **(40 points)**

PREFERENCE:

Fill in your final preference order(top 3) for the various clubs/teams(This is necessary as some of you want to change the order after attending the GWs). Fill it out even if it is the same as what you filled in the form.

Everyone should submit it in a text file and include it with the rest of the assignment.

SUBMISSION:

Your work should be uploaded as a GitHub repo and you need to submit the repo link to us. The repo should be shared with my Email-Id(given below).

Contact the undersigned for clarifications:

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