CTIS 256
Introduction to Backend Development
PROJECT
2022-2023 Fall

Deadline : 23 Dec 2022, 23:59
Team Size: Minimum 3, Maximum 4 students (from any sections)
Presentation: The team (all members) will demonstrate their project on a laptop at my office by getting appointment from moodle.
2 Submissions:

- Submit team members. If you want to select different topic and get approvement from instructor you have to submit project topic and its details (due date: 17.10.2022, 23:55).
-All project source codes, assets and database exports should be uploaded to moodle by one of the team members (due date: 23 Dec 2022, 23:59).

Team work: Each team member will be responsible from a particular part of the project.

A Sustainability Project

You will develop a multi-user, web based CTIS Project Management application in which you are free to design your own user interfaces and the database design using php, and mysql. If you have different project idea, get approvement from course instructor.

Functional Requirements:

- There are two different types of users in the system, admin, instructor, student, and firm.
- **Firm User:**
    o Can register for the system with its email, firm name, username, password, city, district, and address **(5Pts).**
    o Can update/edit its own information described above (**5Pts**).
    o Can add projects detail as project name, project description, project requirements, required software and hardware etc (**8Pts**).
    o Can list, delete and edit, search projects (**9Pts**).
        ▪ Project year automatically assigned when project is created.
        ▪ Project state (accepted, reject) also must be displayed
- **Instructor User/Project Advisor User:**
    o Can register for the system with its email, name, username, password **(3Pts)**.
    o Can update/edit its own information described above (**3Pts**).
    o Can add projects detail as project name, project description, project requirements, required softwares, required hardware etc. (**5Pts**)

- o Can list, delete and edit, search his/her projects (**3Pts**).
    - Project year automatically assigned when project is created.
    - Project state (waiting, accepted, rejected) also must be displayed
  - o Can display, search all the projects and the uploaded resources of projects (**3Pts**).
  - o For each project document, project advisor can write comments (**3Pts**)
    - These comments can be displayed by other advisors
- **Student User:**
  - o Can register for the system with email, name, username, password (**2Pts**)
  - o Can update/edit its own information described above (**2Pts**).
  - o Can add projects detail as project name, project description, project requirements, required software's, required hardware, project group members etc. (**5Pts**)
  - o Can list, delete and edit, search his/her projects. (**5Pts**)
    - Project year automatically assigned when project is created.
    - After submission date project cannot be deleted or updated.
    - Project state (waiting, accepted, reject) also must be displayed
  - o Can upload project resources like poster, video (**5Pts**).
- **Admin User:**
  - o Can display student, firm and instructor projects (**4Pts**)
  - o Can sort the projects according to different project details like project year, semester etc. (**2Pts**)
  - o Can accept, reject the projects (**5Pts**).
  - o Can manage the students (**5Pts**).
  - o Can assign advisor to accepted projects (**5Pts**).
- **Users without registration**
  - o Can display the projects according to project year (**3Pts**).
  - o Can search the project according to project name, student name, year, semester (**3Pts**).

Non-Functional Requirements:

- Authentication must be provided (**10Pts**)
- All forms should be validated and offer sticky-form functionality for usability (**6Pts**).
- Applications must be protected against sql injection, XSS, and CSRF attacks (**5Pts**).
- The system must have a decent user interface (**8Pts**).
  - o You can make use of html templates, third party jQuery plugins and/or bootstrap-like css frameworks in frontend.
- The system should have meaningful data in the demonstration, do not use garbage test data (**3Pts**).

- The requirements give the overall picture of the application. Therefore, you can use your own initiative for missing parts.
- There are +25 Points Bonus.
- Cheating is strictly prohibited. Otherwise, all team members get zero.
- In the demonstration, I'll ask questions to all team members about the project. I'll assess your grades based on your answers. You'll get grades depending on your contribution to the project.
- 20 Points penalty for late submission. The submission will be closed on 23 Dec, 23:59.