Project

The purpose of this project is to exercise concepts and techniques learned in the class. You are required to form teams and develop a web based application. The project should embrace the following aspects:

- The main pages must be built using HTML, CSS, and Ajax.
- Use Python in backend.
- Perform client side input validation using JavaScript.

Potential Projects: Hint: Choose one project from the following

University Library system
Required minimum functionalities: 1. Home page   2. Signing up a new user (e.g. admin, student)   3. Login as admin and as student   4. Updating a user details   5. Adding a book (by admin)   6. Updating a book details (by admin)   7. Browsing books ((by admin and students)   8. Showing a list of books that satisfy certain criteria (e.g., ISBN, publication year, author…)   9. Performing operations on books: borrowing, returning, extending borrowing period   10. Log out

Domestic flight reservation

Required minimum functionalities:
1. Signing up a new user (e.g. admin, customer)
2. Login as admin and as customer
3. Updating a user details
4. Adding an aircraft (by admin)
5. Updating an aircraft details (by admin)
6. Adding a flight (by admin)
7. Updating a flight details (by admin)
8. Showing a list of available flights that satisfy certain criteria (e.g. date, source, destination, required number of seats…)
9. Performing operations on flights: booking, canceling, changing class, accepting payment
10. Log out

Train booking

Required minimum functionalities:

1. Signing up a new user (e.g. admin, customer)
2. Login as admin and as customer
3. Updating a user details
4. Adding an train (by admin)
5. Updating a train details (by admin)
6. Adding a trip (by admin)
7. Updating a trip details (by admin)
8. Showing a list of available seats that satisfy certain criteria (e.g. date, time, source, destination, required number of seats…)
9. Performing operations on trips: booking, canceling, and accepting payment
10. Log out

Online Recruitment

Required minimum functionalities:

1. Home page
2. Signing up a new user (e.g. job seeker, employer)
3. Login as job seeker and employer
4. Updating a user details
5. Adding/updating a vacancy (by employer)
6. Showing a list of vacancies that satisfy certain criteria (e.g.

    i. industry, location, required experience…)

7. Showing a list of job seekers that satisfy certain criteria (e.g.
    ii. industry, location, experience…)
8. Performing operations on vacancies: apply and save (by job seeker)
9. Performing operations on vacancies: hide (by employer)
10. Log out

Rules:

1. **Teams should be either 5 or 6 students not more or less.**
2. **Teams should not span different labs.**
3. **The deadlines will be 14/6/2021 at 11:59 pm.**
4. **Compress Project to: GroupNo_LeaderID_ProjectName.zip/rar/…**
5. **Only the leader will submit the project.**
6. **The project must contain file.txt with project name, team members' names and ids.**
7. **This part is important: You should upload video that contains demo for your project, in this video every member should explain its part, and the explanation should include how every part/ function works and how it is developed with which techniques and technologies. Hint: video with maximum 5 minutes.**