

Web technology IS231 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 (you can use CSS frameworks like bootstrap, materialUI...etc), and Ajax.
- Use PHP in backend.
- Use MySQL database to store and query the data.
- The data in each project coming from forms must be inserted, updated, deleted, and selected from the database
- Perform client-side input validation using JavaScript (HTML5 elements also ok).

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 user details
5. Adding a book (by admin)
6. Updating a book detail (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

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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 user details
4. Adding an aircraft (by admin)
5. Updating an aircraft detail (by admin)
6. Adding a flight (by admin)
7. Updating a flight detail (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 user details
4. Adding a train (by admin)
5. Updating train details (by admin)
6. Adding a trip (by admin)
7. Updating 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

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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 user details
5. Adding/updating a vacancy (by employer)
6. Showing a list of vacancies that satisfy certain criteria (e.g., 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 30-12-2021 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.**

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- 8. The projects will be presented** in the form of a book contain the Website Project Report with the names of the group, and this book provides at least two copies, and the names of the group, the name of the project, the name of the doctor and the faculty member supervising the project will be placed on the cover of the book.
- 9. The students will present** a presentation and a demo explaining what they did?
- 10. The dates for discussion** of the project in attendance will be determined later

How to Write a Website Project Report

The Major Components of a Project Report

The kind of project report you are writing will dictate the main sections of the report. For example, a status report will include a section on updates, while a proposal will not. The major components of a project report include:

- **Title:** Use a clear and explanatory title for your report so the readers can immediately know what it is about. For example, “Q4 Marketing Campaign Status Update” is more informative than “February Project Report.”
- **Executive Summary:** Give the readers a preview of what they will find in the report. Don’t go into detail. Instead, offer the main points. It’s best to write this section last, after the rest of the report is written.
- **Introduction:** Provide the readers with background and context. State the goal of the project report here.
- **Progress:** This section is particularly important if you’re providing a status update on your project. Discuss what has been achieved to date and what remains to be completed. Use metrics where possible.
- **Targets vs. Results:** Similar to the progress section, this is where you can provide updates on how your project is going. Outline the key performance indicators for your project, state the benchmarks and show the current results. For some projects, this section is best completed when the project is over. For others, you may be able to show in-progress results.
- **Risks and Obstacles:** In a proposal, you’ll need to outline the potential risks for undertaking the project. It’s important to discuss them so that the company can prepare solutions to manage the risks. For a project in progress, outline the obstacles you face that are standing in the way of successful completion. If there

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are recommendations for clearing those obstacles, you can write about them here.

- **Resources:** Provide details about what internal and external human resources are involved in the project.
- **Budget:** Show whether or not you are coming in on budget and why or why not. If you will be over budget, provide explanations for additional funding you require.
- **Schedule:** Discuss the timeline and expected completion. If the project is already complete, discuss how realistic the timeline was and any recommendations you have for next time.

- **Project pages :**In this part, the project pages are attached in the order of their entry as successive images
- **Project Coding system :**In this part, the project code is attached as text from a PDF file
- **Conclusion:** This section is where you can share what you learned from this project. How has the organization benefited?
- **Recommendations:** Share any ideas you have for future projects, company processes or other aspects based on the insights you learned from this project.
- **Appendices:** Attach any data, graphics or research that relates to information you have presented in your project report.