

Final Assignment

Project Overview

1. Websites

- Booking Frontend
 - User-friendly interface to browse and book various services (e.g., hotel rooms, meeting rooms, and other bookable services).
 - Display service options, descriptions, and pricing.
 - Booking form with customizable options.
 - User authentication (optional).
- Admin Dashboard
 - Manage bookings with search, filter, modify, and cancel options.
 - Dashboard for administrative tasks.

2. Backend & Database

- PostgreSQL Database
 - **Users:** Stores user info (name, email, contact).
 - **Bookings:** Details on service type, date, time, user info.
 - **Services:** List of services with descriptions, pricing, and options.
- Flask Integration

Connects to the database for data retrieval and updates.

3. Optional Requirements

- **Deployment:** Use hosting (Heroku, AWS, GCP) with optional custom domain.
- **Security:** Implement SSL, input validation, and performance optimization.

Technical Stack

- **Frontend:** HTML, CSS, JavaScript, Bootstrap (or similar).
- **Backend:** Flask (Python).
- **Database:** PostgreSQL.
- **Deployment:** Hosting service (Heroku, AWS, GCP), optional domain.

Development Phases

1. Planning & Design

- Layout sketches and database schema design.

2. Development

- Set up a Flask environment.
- Develop frontend and backend functionality.
- PostgreSQL integration.

3. Testing

- Unit and integration tests.
- User experience tests.

4. Deployment (Optional)

- Deploy to hosting service.
- Set up a custom domain.

5. Documentation

- Setup guides, usage instructions, and code explanations.

Deliverables

- Source code for both websites.
- Database schema and setup scripts.
- Documentation and setup guides.
- Deployed URLs (if applicable) or usage videos or screen cuts.

Scoring Criteria

- **Accuracy and Correctness (30%)** – Correct and precise answers.
- **Completeness (30%)** – Fully address all parts of the question.
- **Clarity and Presentation (20%)** – Clear, organized, and logical responses.
- **Creativity and Originality (20%)** – Unique, innovative, or insightful solutions.