

CPSC 304 Project Timeline and Task Breakdown

Project Summary

Our project is a real estate management system that allows users to manage property listings, make offers, and schedule appointments with realtors. The system features a comprehensive GUI for ease of use, allowing users to interact with the database seamlessly. The primary entities include Users, Realtors, Listings, Offers, Appointments, and Properties.

Timeline

Day 1 (July 24): Finalization of Documentation

- Documentation and Preparation:
 - Udbhav and Rehnoor: Finalize and document the design mockups.
 - Abdul: Finalize and document the timeline and task breakdown.
- Repository Commitment:
 - Ensure each team member has committed to the repository at least once.
- Team Discussion:
 - Review the design mockups and task breakdown.
 - Ensure all members understand their roles and responsibilities.
 - Prepare to discuss the project scope, design, and task assignments.

Day 2 (July 25): Preparation for Project Check-In Meeting

- Final Preparations:
 - Udbhav and Rehnoor: Ensure design mockups are detailed and clear.
 - Abdul: Review the finalized timeline and task breakdown.
 - All members: Review the project documentation and prepare to discuss it during the meeting.

Day 3 (July 26): Project Check-In Meeting

- Meeting with TA:

- All members: Attend the meeting on time.
- Discuss the design mockups, database schema, and task breakdown with the TA.
- Address any feedback or concerns raised by the TA.

Day 4 (July 27): Database Schema Implementation

- Schema Creation:
 - Rehnoor: Implement schema creation for Users and Properties.
 - Abdul: Implement schema creation for Listings and Offers.
 - Udbhav: Implement schema creation for Appointments.

Day 5 (July 28): User Registration and Login

- Front End Development:
 - Abdul: Implement registration and login forms.
 - Abdul: Add form validation.

Day 6 (July 29): Property Listings

- Front End Development:
 - Rehnoor: Create listings page, implement filters, and create property details page.
- Database Interaction:
 - Rehnoor: Implement functions to handle property listing queries.

Day 7 (July 30): Offers Management

- Front End Development:
 - Abdul: Implement offer creation form and offer listing page.
- Database Interaction:
 - Abdul: Implement functions to handle offer-related queries.

Day 8 (July 31): Appointments Management

- Front End Development:
 - Udbhav: Implement appointment booking form and appointments listing page.
 - Udbhav: Implement functionality to update appointment status.
- Database Interaction:

- Udbhav: Implement functions to handle appointment-related queries.

Day 9 (August 1): Integration

- Front End and Back End Integration:
 - All members: Integrate front end with back end, ensuring seamless communication.

Day 10 (August 2): Testing and Debugging

- Comprehensive Testing:
 - All members: Conduct comprehensive testing to identify and fix bugs.
 - Ensure data consistency and integrity across the application.

Day 11 (August 3): Final Refinement

- Refinement:
 - Rehnoor: Refine property listing and filtering features.
 - Abdul: Refine user registration, login, and offer management features.
 - Udbhav: Refine appointment booking and management features.

Day 12 (August 4): Final Testing and Preparation

- Final Testing:
 - All members: Conduct final testing to ensure the application is fully functional.
- Prepare for Milestone 4 Submission:
 - All members: Prepare documentation and ensure all deliverables are committed to the repository.

Milestone 4 (Due August 4 at 11:59pm): Project Implementation

- Submission:
 - Ensure all components are functional and submit the project implementation.

Milestone 5 (Due August 9 at 11:59pm): Group Demo

- Preparation for Demo:
 - Prepare a comprehensive demo of the project.
 - All members practice presenting their respective components.

Milestone 6 (Due August 9 at 11:59pm): Individual and Peer Assessment

- Assessment:

- Complete individual and peer assessments.
- Ensure feedback is constructive and reflects the contributions accurately.

Task Breakdown and Assignment

Project Tasks Breakdown

Front End Tasks

1. User Interface Design

- Design Mockups: Create design mockups for all screens (e.g., login, property listings, offers, appointments).
- User Navigation Flow: Define the user navigation flow between different screens.

2. User Registration and Login

- Registration Form: Implement a form for new users to register.
- Login Form: Implement a login form for existing users.
- Form Validation: Add form validation to ensure data integrity.

3. Property Listings

- Listings Page: Create a page to display property listings.
- Listing Filters: Implement filters for users to search properties by type, price, location, etc.
- Property Details Page: Create a page to display detailed information about a selected property.

4. Offers Management

- Offer Creation Form: Implement a form for users to create new offers.
- Offer Listing Page: Create a page to display offers made by the user.
- Offer Status Update: Implement functionality to update the status of offers.

5. Appointments Management

- Appointment Booking Form: Implement a form for users to book appointments with realtors.
- Appointments Listing Page: Create a page to display user's appointments.
- Appointment Status Update: Implement functionality to update the status of appointments.

Back End Tasks

1. Database Schema Implementation

- Schema Creation: Create tables based on the provided schema for Users, Realtors, Properties, Listings, Offers, Appointments, and Amenities.
- Foreign Key Constraints: Implement foreign key constraints to maintain referential

integrity.

2. CRUD Operations

- Users: Implement Create, Read, Update, Delete operations for the Users table.
- Properties: Implement CRUD operations for the Properties table.
- Listings: Implement CRUD operations for the Listings table.
- Offers: Implement CRUD operations for the Offers table.
- Appointments: Implement CRUD operations for the Appointments table.

3. Database Interaction

- Query Functions: Implement functions to handle database queries for user actions (e.g., searching properties, booking appointments, making offers).
- Data Validation: Add server-side validation to ensure data integrity.

4. Integration

- Front End and Back End Integration: Ensure seamless communication between front end and back end.
- Testing: Test the integrated system for any bugs and ensure data consistency.

Task Assignment

Team Members:

- Rehnoor Saini (g0o9s)
- Abdul Khurram (f0p7l)
- Udbhav Kansal (m8z9e)

Assigned Tasks:

1. Rehnoor Saini:

- Front End: User Interface Design, Property Listings Page, Listing Filters, Property Details Page.
- Back End: Schema Creation for Users and Properties, CRUD Operations for Properties.

2. Abdul Khurram:

- Front End: User Registration and Login, Form Validation, Offer Creation Form, Offer Listing Page.
- Back End: Schema Creation for Listings and Offers, CRUD Operations for Offers.

3. Udbhav Kansal:

- Front End: Appointment Booking Form, Appointments Listing Page, Appointment Status Update.
- Back End: Schema Creation for Appointments, CRUD Operations for Appointments.

Collaborative Tasks:

- Integration and Testing:
 - All team members will collaborate on integrating the front end and back end components.
 - Conduct comprehensive testing to ensure the system functions correctly and efficiently.

Milestones 1 and 2 Deliverables

All deliverables from Milestones 1 and 2 have been committed to the repository.

Challenges/Things Left to Do

We understand the remaining tasks and have a starting approach for each:

- Completing the implementation of the GUI.
- Ensuring seamless integration between the front end and back end.
- Comprehensive testing and debugging to ensure functionality and data integrity.
- Preparing for the demo and final assessments.