

Slide 1: Title Slide

- Start with a greeting:
- "Good [morning/afternoon]! We are excited to present our final project for CSC 4370/6370 Web Programming, titled Property Connect - Real Estate Platform."
- Introduce the team:
- "Our team consists of Caleb Thang, Abdinur Hussein, and myself, Ammar Abbkar. Together, we've worked to create an innovative platform for real estate."

Slide 2: Team Members & Roles

- Highlight roles:
- "Each team member contributed to different aspects of the project. As the team leader, I focused on backend development, database management, and frontend UI design. Caleb and Abdinur supported these areas as well, ensuring all parts of the system functioned smoothly."
- Add:
- "Our collaborative effort made it possible to bring this project to life."

Slide 3: Project Overview

- Describe the project:
- "Property Connect focuses on the buyer experience, providing tools like user authentication, a wishlist, and a robust property search system. Sellers can also manage listings, making it a comprehensive platform."
- Explain the inspiration:
- "We wanted to address the gaps in existing real estate platforms by focusing on usability and functionality."

Slide 4: Technologies Used

- Walk through the tools:
- "For the frontend, we used HTML5, CSS3, and JavaScript to create a responsive and visually

appealing interface. On the backend, PHP handles server-side logic, while MySQL serves as our database."

- Highlight GitHub:
- "Version control with GitHub ensured smooth collaboration and tracking of changes."

Slide 5: Database Schema - Part 1

- Explain the `users` table:
- "The `users` table handles essential user details like names, email, and roles. Passwords are stored securely using hashing, and user roles define permissions across the platform."
- Emphasize its role:
- "This table is critical for our authentication system and ensuring user-specific experiences."

Slide 6: Database Schema - Part 2

- Dive into the `properties` table:
- "The `properties` table stores listing details such as title, price, and location. These fields enable our search and filter functionality, giving buyers a personalized experience."
- Mention scalability:
- "We designed it to support a wide range of property types and attributes."

Slide 7: User Authentication (Code Snippet)

- Explain the snippet:
- "This PHP function establishes a secure connection to the database. By using `try-catch`, we handle errors gracefully and ensure the application remains stable."
- Relate it to security:
- "Secure connections like this are vital for protecting user data."

Slide 8: Property Search Implementation (Code Snippet)

- Break down the code:
- "Here, the JavaScript function fetches property data from the backend based on user inputs like

search terms, property type, and price range."

- Highlight interactivity:
- "This makes the platform dynamic, as users see immediate updates to their search results."

Slide 9: Test Cases

- Discuss each test case:
- "We tested the platform rigorously. For example, in user registration, we validated inputs and checked password strength. In property search, we ensured filters worked accurately. Lastly, the wishlist functionality was tested for persistence and usability."
- Share the importance:
- "Testing helped us identify and resolve potential issues before deployment."

Slide 10: Project Challenges & Solutions

- Expand on challenges:
- "Designing an optimized database was challenging due to the volume of data. Implementing search functionality was another hurdle, as it required balancing speed and accuracy."
- Highlight solutions:
- "We used proper indexing, optimized queries, and secure session management to address these challenges."

Slide 11: Future Enhancements

- Share future plans:
- "We envision adding real-time chat for direct communication, advanced search filters for more criteria, and user reviews to build trust."
- Engage the audience:
- "These features would take the platform to the next level, making it even more user-centric."

Slide 12: GitHub Links

- Explain contributions:

- "Each member's GitHub repository showcases our contributions, from backend logic to frontend design. This ensures transparency and allows for future collaboration."
- Encourage feedback:
- "Feel free to explore our code and share your feedback."

Slide 13: Live Demo

- Set expectations:
- "We'll now demonstrate the platform, walking you through user registration, property search, and the wishlist functionality."
- Highlight usability:
- "Notice the responsive design and how intuitive the interface is."