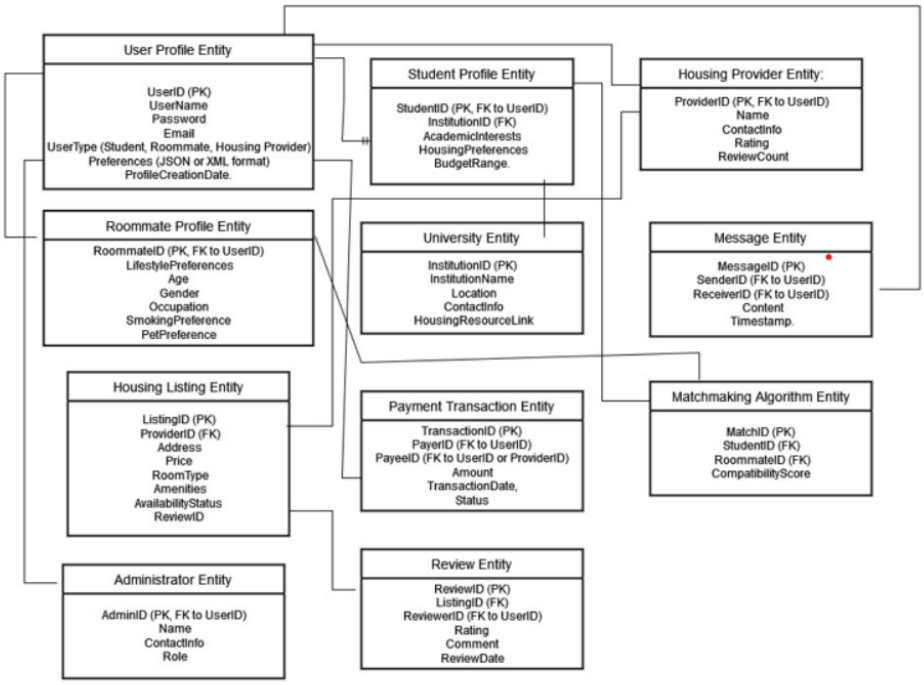
Project Assignment Week: Ten Deliverables

Group. 5

1. **E-R Diagram (Final Version)**



2. List of the key user interfaces, forms, and reports for your system and brief description of each

1. **User Registration Form:** Allows users to register with the system by providing basic information such as UserName, Password, Email, UserType, and other relevant details. This form is crucial for creating a new user profile.

2. **Student Profile Form:** Allows students to input and update their academic-related information, housing preferences, and budget range. This form helps in creating a comprehensive student profile.

3. **Roommate Profile Form:** Enables users to create or update their roommate profiles, including lifestyle preferences, age, gender, occupation, smoking and pet preferences. This is vital for users looking for compatible roommates.

4. **Housing Provider Registration Form:** Facilitates the registration of housing providers, capturing essential details such as Name, ContactInfo, and other relevant information. This form is essential for individuals or entities providing housing services.

5. **University Registration Form:** Allows administrators to add new universities to the system, including details such as InstitutionName, Location, ContactInfo, and HousingResourceLink. This form is essential for building the database of available institutions.

6. **Housing Listing Form:** Housing providers use this form to create and manage their listings, including details like Address, Price, RoomType, Amenities, and AvailabilityStatus. This form is crucial for displaying available housing options.

7. **Message Interface:** Provides a platform for users to communicate with each other. Users can send and receive messages with attributes such as Content, Timestamp, SenderID, and ReceiverID.

8. **Review Form:** Allows users to submit reviews for housing listings, capturing details such as Rating, Comment, and ReviewDate. This feature helps build a reputation system for housing providers.

9. **Payment Transaction Form:** Enables users to initiate and track payment transactions, including details such as Amount, TransactionDate, and Status. This form is crucial for handling financial transactions within the system.

10. **Administrator Dashboard:** A comprehensive interface for system administrators to manage user accounts, resolve disputes, and oversee the overall functionality of the system. This dashboard provides access to key functionalities and data related to the system.

3. Project Status Report (reflective of accomplishments to date and future plans)

Accomplishments to Date:

Our team has made significant strides in the development of SUStays, a comprehensive platform aimed at revolutionizing the student housing search experience. Key accomplishments include:

- **Conceptualization and Design:** Successfully outlined the vision for SUStays, addressing the challenges in the current student housing search landscape. Created a detailed design for the platform, highlighting sophisticated filtering and roommate-matching capabilities.

- **Development and Testing:** Commenced the development phase, focusing on building a user-friendly interface and robust backend functionality. Conducted rigorous testing to ensure the reliability and effectiveness of the platform, addressing any issues promptly.

- **Filtering and Matching Features:** Implemented advanced filtering options, allowing students to tailor their housing searches based on preferences such as accommodation style, dietary requirements, and proximity to educational facilities. Incorporated an intelligent roommate-matching algorithm to enhance compatibility and foster positive living experiences.

- **Replacement for Unstructured Chats:** Developed a structured and efficient messaging system within SUStays, replacing the need for time-consuming and unstructured group chats.
- Ensured the platform facilitates transparent communication and decision-making for students seeking housing solutions.

- **Scalability and Accessibility:** Designed SUStays to be scalable, ensuring it can handle increasing user traffic and data as the platform gains popularity.
- Ensured accessibility for a diverse user base, considering factors such as usability and inclusivity.

Future Plans:

Finalization and Deployment: Focus on final testing and refinement to ensure a seamless user experience. Prepare for the official launch of SUStays, making it available to students seeking housing solutions.

User Feedback and Enhancements: Implement a feedback mechanism to gather user insights and improve the platform based on real-world experiences.
Regularly assess user satisfaction and identify areas for enhancement through surveys and analytics.

Continuous Improvement: Monitor system performance and address any issues that may arise post-launch. Explore additional features and functionalities to meet evolving student needs and expectations.

Marketing and Outreach: Develop a comprehensive marketing strategy to promote SUStays to students and educational institutions. Establish partnerships with universities and colleges to increase platform visibility and adoption.