e Case Diagram of Pet A Paw:

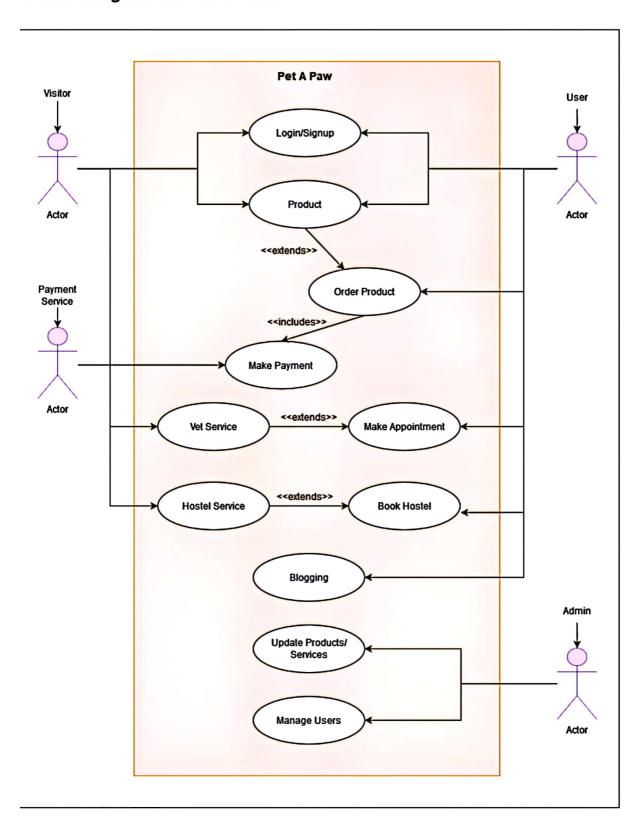


Figure 4.1: Context Diagram of Pet A Paw.

5. Document System Architecture: Sequence diagrams serve a documentation artifacts that capture the dynamic behavior of a system complementing other architectural documentation such as class diagram use case diagrams, and deployment diagrams. They provide a detailed vie of how system components collaborate to fulfill user requirements are business processes, aiding in system analysis, maintenance, and evolution.

erall, sequence diagrams play a crucial role in the software development lifecycle I proving communication, facilitating analysis and design, and enhancing the derstanding of system behavior among project stakeholders. They are a valuable to modeling and visualizing the dynamic aspects of software systems, helping tean ld high-quality and reliable software solutions.

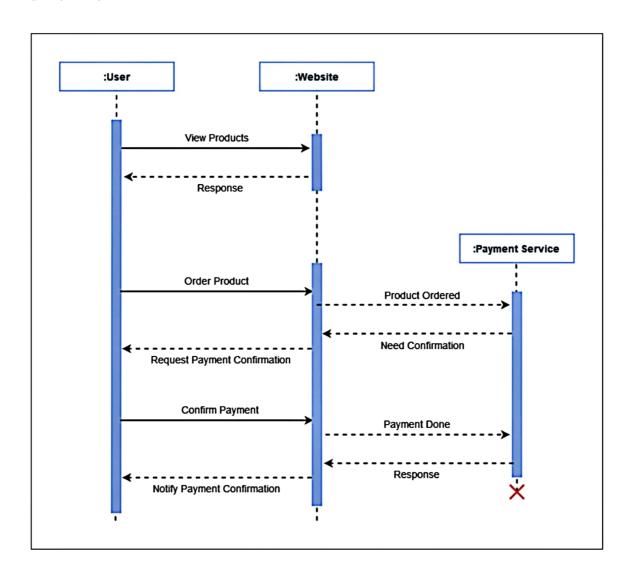


Figure 4.8: Sequence Diagram for Order Product Use Case of Pet A Paw.

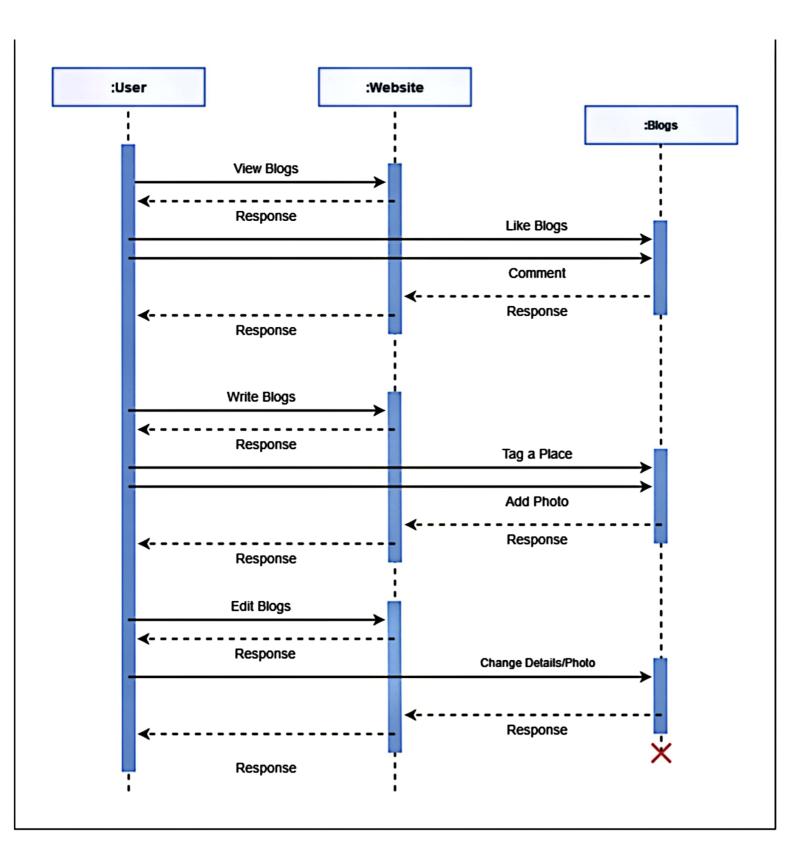


Figure 4.9: Sequence Diagram for Blogging Use Case of Pet A Paw.

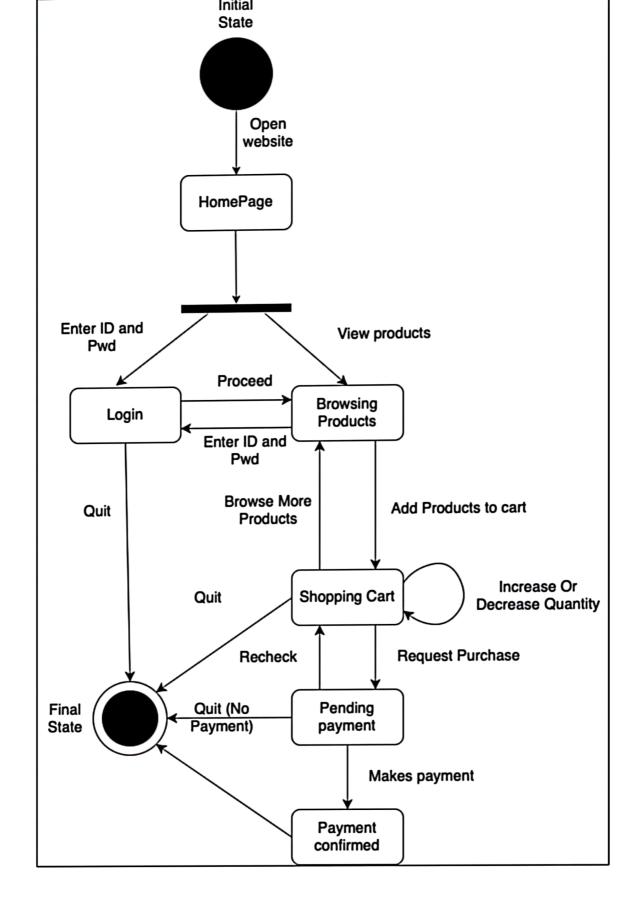


Figure 4.11: State Diagram for Order Product Use Case of Pet A Paw.

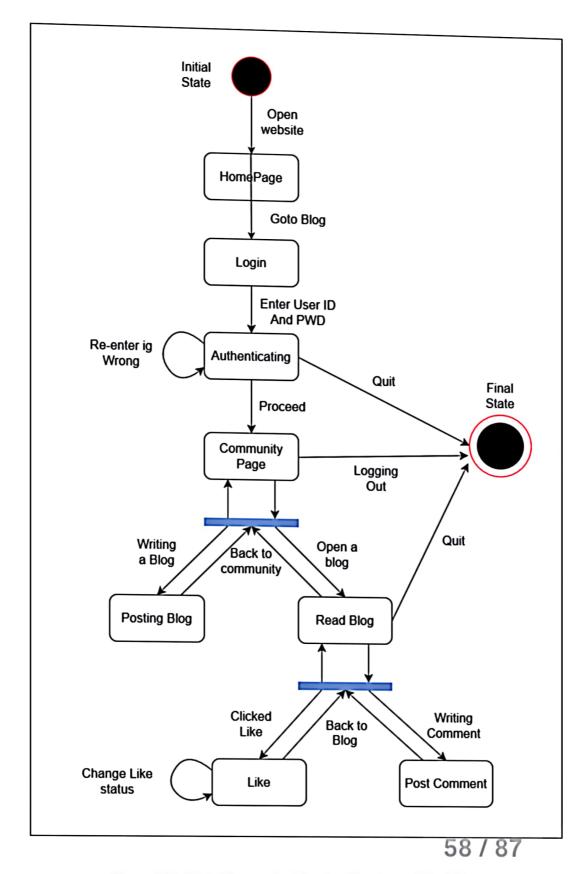


Figure 4.10: State Diagram for Blogging Use Case of Pet A Paw.

 Analysis and Design: Class diagrams serve as blueprints for designing the structure of software systems, helping stakeholders understand and define the relationships and dependencies between different components.

- Documentation: Class diagrams provide a visual representation of the system's static structure, facilitating communication and collaboration among developers, designers, and other project stakeholders.
- Code Generation: Class diagrams can be used as input for code generation tools
 to automatically generate source code for classes, attributes, and methods
 defined in the diagram.
- Refactoring: Class diagrams help identify opportunities for code refactoring and optimization by visualizing the relationships and dependencies between classes, allowing developers to streamline and improve the design of the system.

Overall, class diagrams are a fundamental tool in object-oriented software development, enabling teams to model, analyze, and design complex systems more effectively.

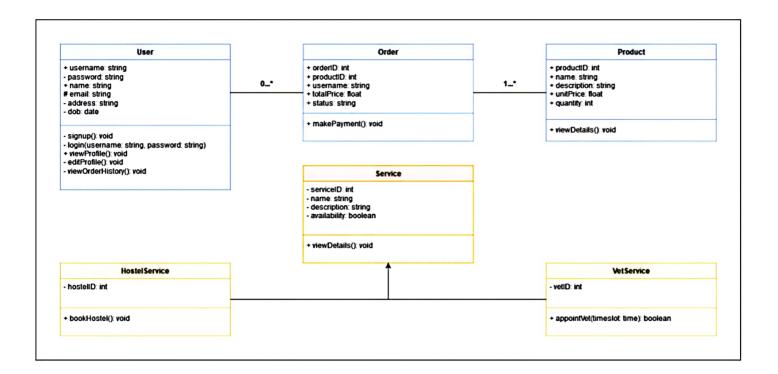


Figure 4.12: Class Diagram of Pet A Paw.

- Identify Collaborations: Identify other classes or objects that the current class needs to collaborate with to fulfill its responsibilities. Write down these collaborations on the CRC card.
- Arrange CRC Cards: Arrange the CRC cards on a board or table, grouping related classes together and organizing them in a way that makes sense based on the system's structure and functionality.
- Review and Refine: Review the CRC diagram as a team and make any necessary refinements or adjustments to ensure that it accurately reflects the design of the system.

RC diagrams help teams visualize the responsibilities and collaborations of classes ithin a system, fostering better understanding and communication among project akeholders. They provide a lightweight and flexible technique for exploring and refining the design of object-oriented systems, ultimately leading to more robust and taintainable software solutions.

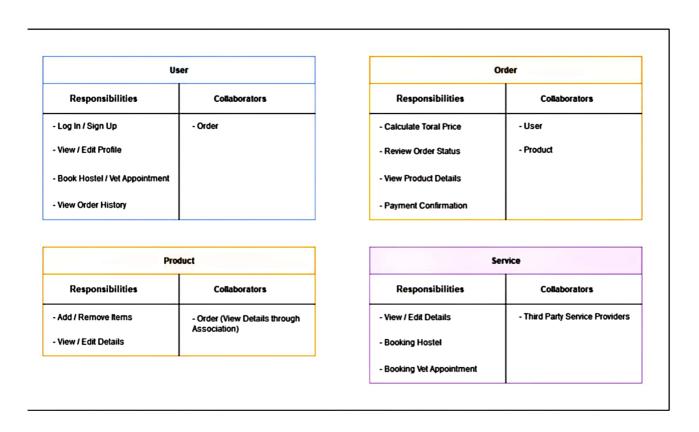


Figure 4.13: CRC Diagram of Pet A Paw.

complementing other architectural documentation such as class diagrams, sequence diagrams, and use case diagrams.

Overall, deployment diagrams are a valuable tool for modeling and visualizing the physical deployment of software systems, aiding in the design, planning, and management of system deployments. They provide insights into the distribution of software components, resources, and communication pathways within the deployment environment, ultimately contributing to the successful implementation and operation of software solutions.

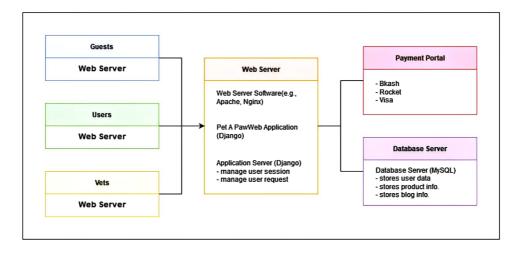


Figure 4.14: Deployment Diagram of Pet A Paw.

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4.3. UI/UX Design

UI design is about crafting interfaces that are visually appealing, easy to use, and intuitive for users. It focuses on creating layouts, visuals, and interactions that enhance the user experience. A well-designed UI not only makes a product attractive but also ensures users can navigate and interact with it effortlessly. By considering elements like layout, visual design, navigation, and feedback, UI designers create interfaces that drive engagement, support brand identity, and delight users. Effective UI design involves understanding user needs, collaborating with stakeholders, and iterating on design prototypes to create interfaces that meet both user expectations and business goals.

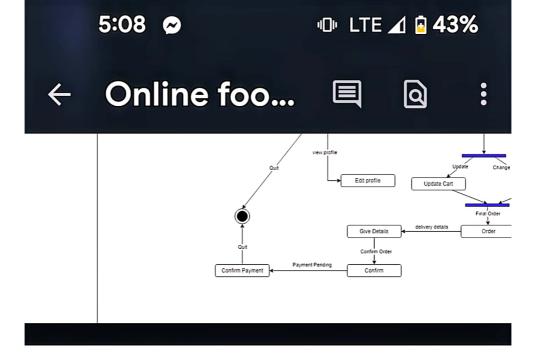
4.3.1. UI Design Principles

4.3.1.1. Three Golden Rules of UI Design

1. Places users in control

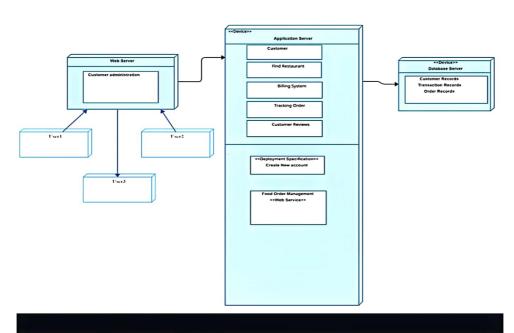
- Modeless
- Flexibility
- Interruptible





1.8 Deployment Diagram

Deployment Diagram For Food Order System



3olden Rules of UI Design

golden rules are divided into three groups:

Place Users in Control

Define interaction in such a way that the user is not into performing unnecessary or undesired actions
Provide for flexible interaction
Allow user interaction to be interruptible and reversible

Reduce Users' Memory Load

Reduce demands on user's short-term memory
Establish meaningful details
Define intuitive short-cuts
Visual layout of user interface should be based on familial metaphor



Make the Interface Consistent

Allow user to put the current task into a meaningful context

Maintain consistency across a family of applications

If past interaction models have created user expectations, do not