

Ahsanullah University of Science and Technology
Department of Computer Science and Engineering



CSE3224: Information System Design and Software Engineering Lab, Spring 2020

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Group: 01

Project Name: BashaBari

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Introduction

In this report, we have shown our project's Use Case Diagram and Entity Relationship Diagram as well as mentioned the importance of these diagrams in our project's development.

Use Case Diagram

Use case diagrams are used to gather the requirements of a system including internal and external influences. These requirements are mostly design requirements. Hence, when a system is analyzed to gather its functionalities, use cases are prepared and actors are identified. When the initial task is complete, use case diagrams are modelled to present the outside view. In brief, the purposes of use case diagrams can be said to be as follows

- Used to gather the requirements of a system.
- Used to get an outside view of a system.
- Identify the external and internal factors influencing the system.
- Show the interaction among the requirements and actors.

Our project's use case diagram is shown in the following.

Project Use Case Diagram

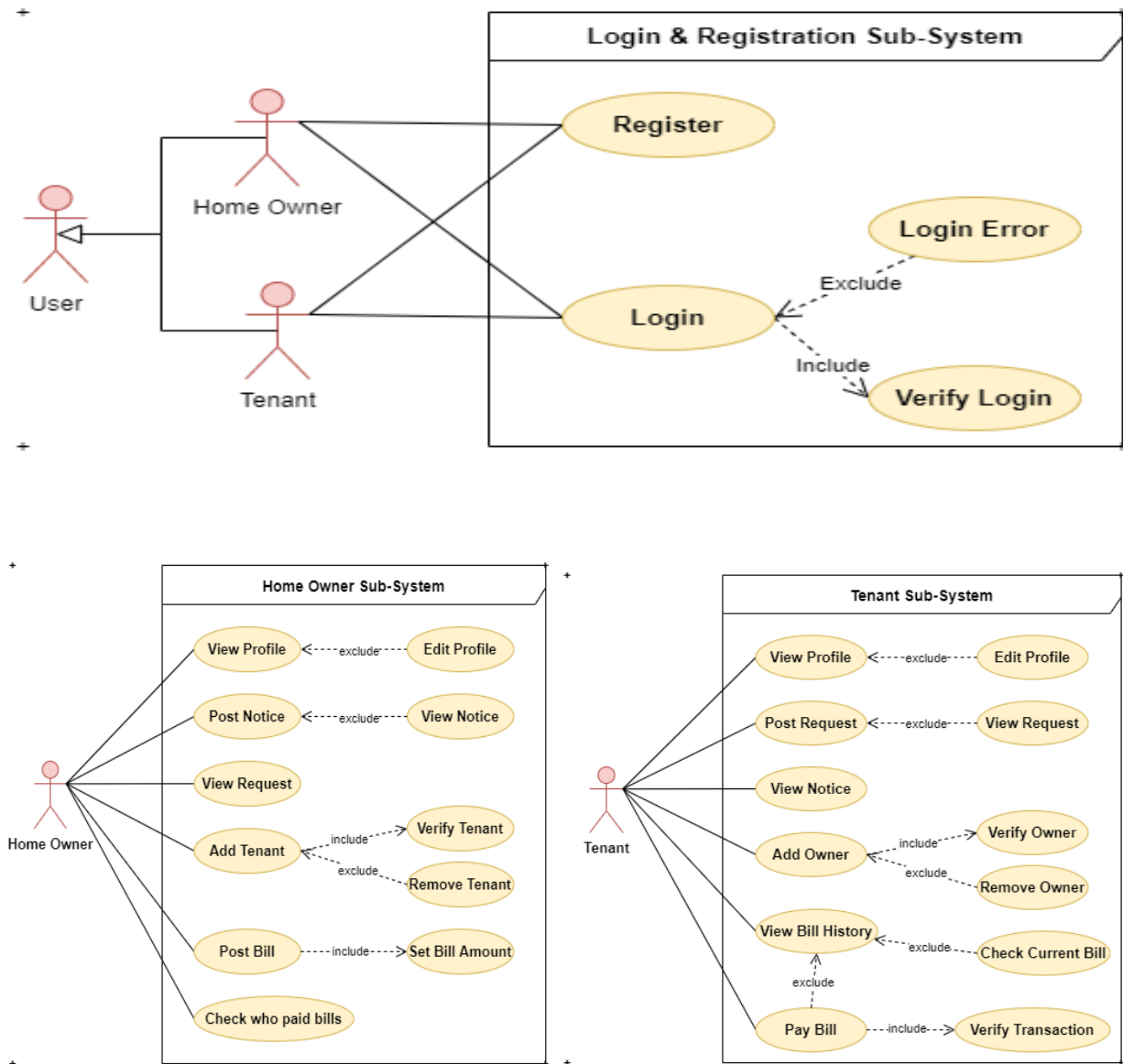


Fig: Use Case Diagram of BashaBari

Entity Relationship Diagram

An Entity Relationship (ER) Diagram is a type of flowchart that illustrates how “entities” such as people, objects or concepts relate to each other within a system. ER Diagrams are most often used to design or debug relational databases in the fields of software engineering, business information systems, education and research. Also known as ERDs or ER Models, they use a defined set of symbols such as rectangles, diamonds, ovals and connecting lines to depict the interconnectedness of entities, relationships and their attributes. They mirror grammatical structure, with entities as nouns and relationships as verbs.

To summarize, ERD is important for

- Database design
- Database debugging

Our project’s entity relationship diagram is shown in the following.

Project Entity Relationship Diagram

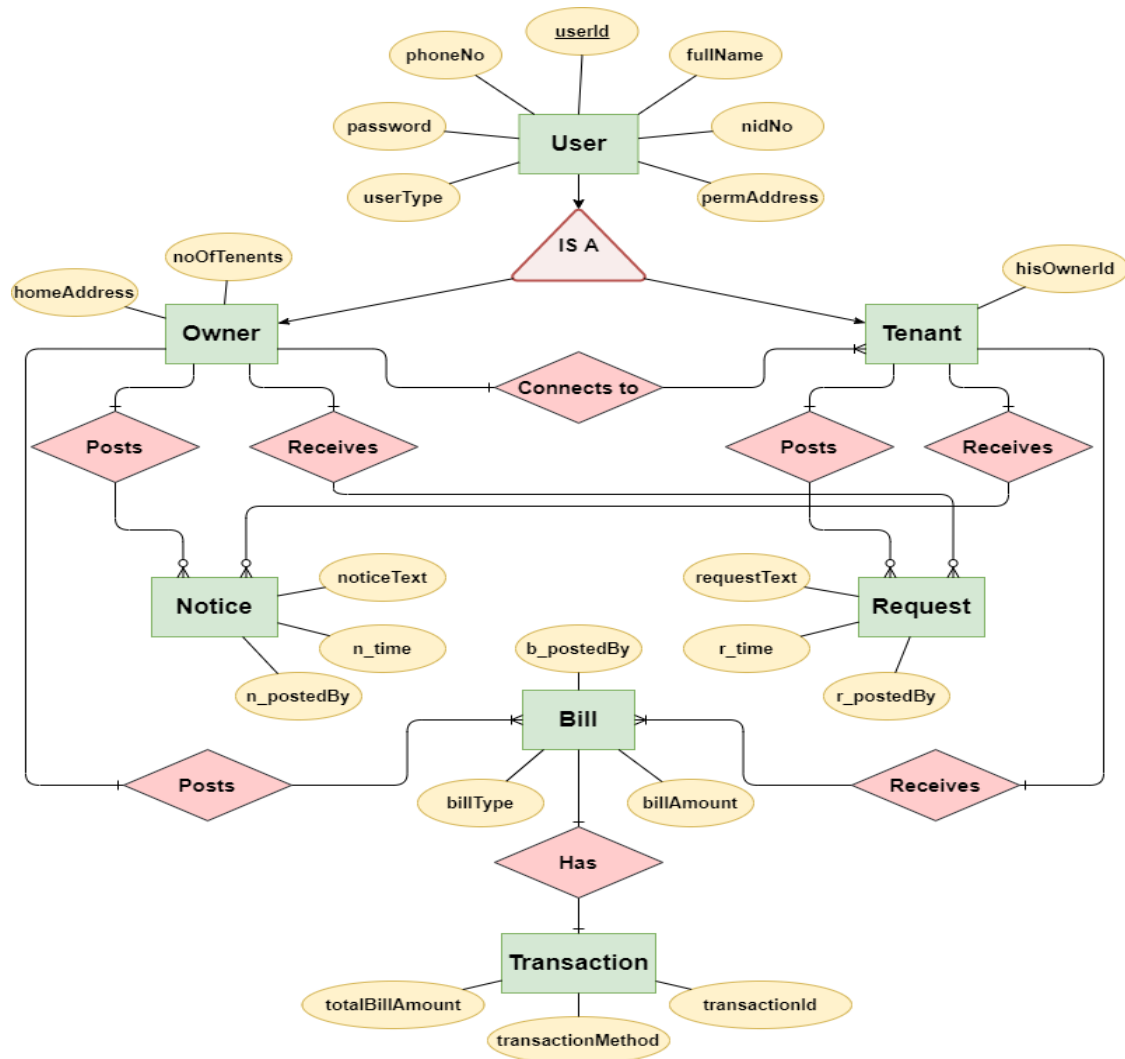


Fig: Entity Relationship Diagram of BashaBari

Conclusion

The Use Case Diagram will help us to understand the uses of our website according to our actors. and ERD will help us to navigate the relationship of our database's tables with one another. These diagrams are important before starting the projects coding part as it acts as the blue print behind the actual development of our project.