



IT313 - Software Engineering

Warehouse Management System

Group No. 5

Design Document

Abstract

The Warehouse Management System (WMS) is a sophisticated software solution meticulously crafted to optimize and automate warehouse operations. This system acts as a centralized hub and efficiently managing inventory.

The purpose of this design document is to furnish a comprehensive insight into the architectural framework, design principles, and functionalities intrinsic to the WMS. Encompassing details on the data model, user interface, security protocols, and integrations, this document serves as a foundational guide for system development.

The WMS is engineered for user-friendliness, intuitiveness, and scalability. Key features include real-time inventory tracking, order processing, employee task management, and a dynamic reporting system. The system integrates a robust messaging platform facilitating seamless communication between warehouse staff and management.

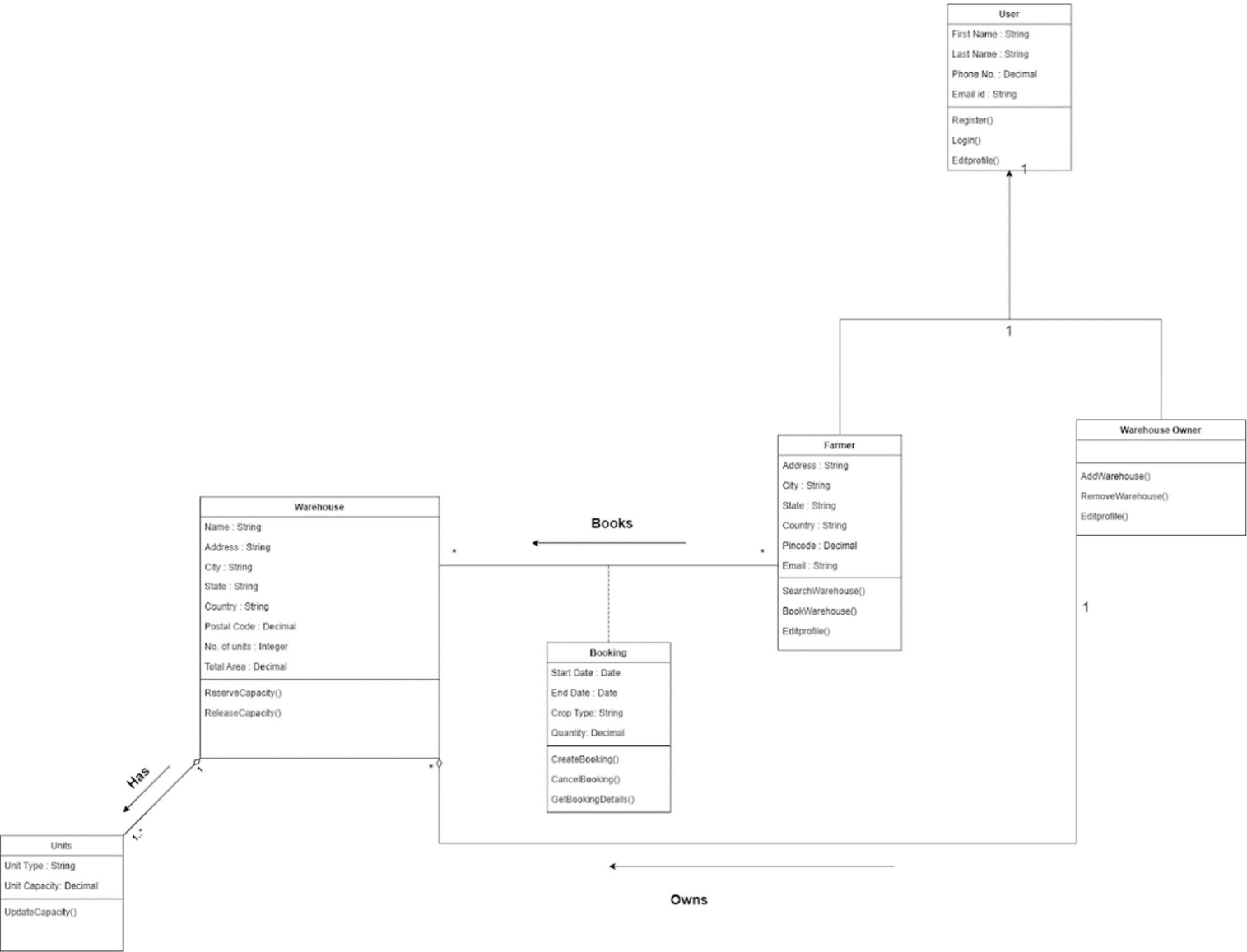
Emphasizing data security and confidentiality, the WMS incorporates advanced authentication, authorization mechanisms, and role-based access controls.

In summary, the Warehouse Management System is a strategic tool aimed at enhancing operational efficiency, employee productivity, and facilitating well-informed decision-making within warehouse management. This design document serves as a roadmap, offering a detailed understanding of the system's architecture and functionalities, and illustrating its potential to bring significant benefits to warehouses across diverse industries.

Table of content

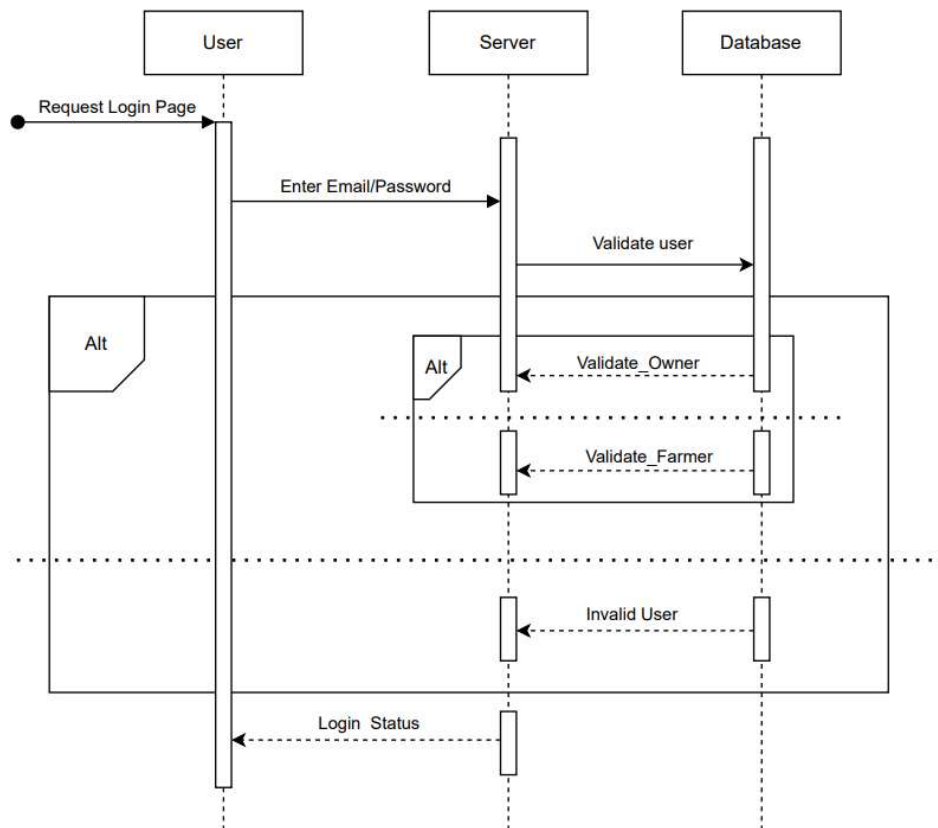
1. Class Diagram
2. Sequence Diagram
3. Activity Diagram
4. Database Schema

1. Class Diagram

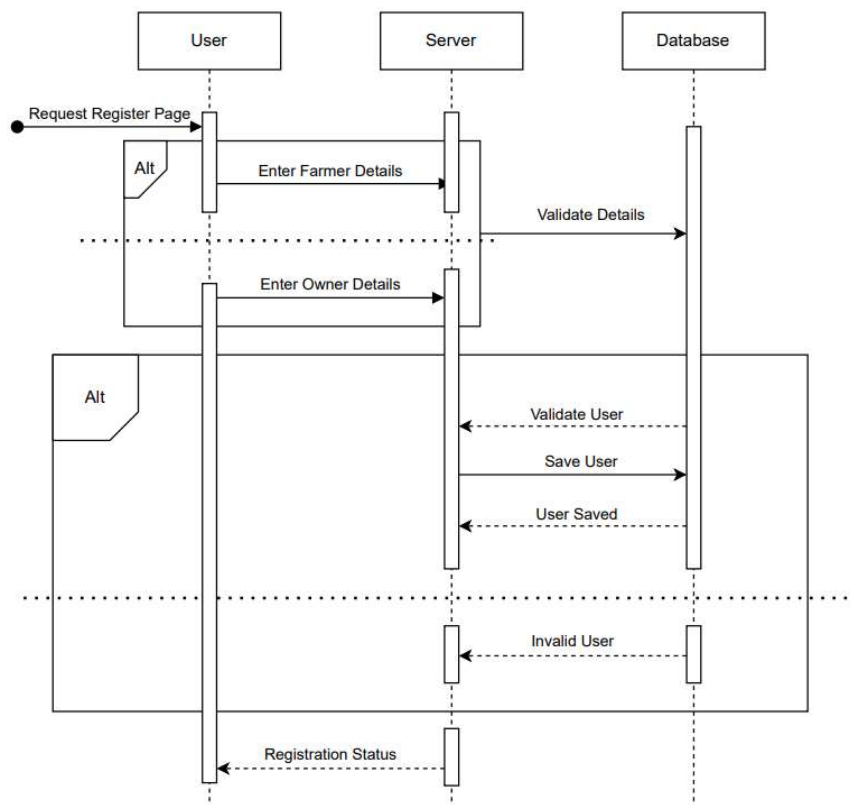


2. Sequence Diagram

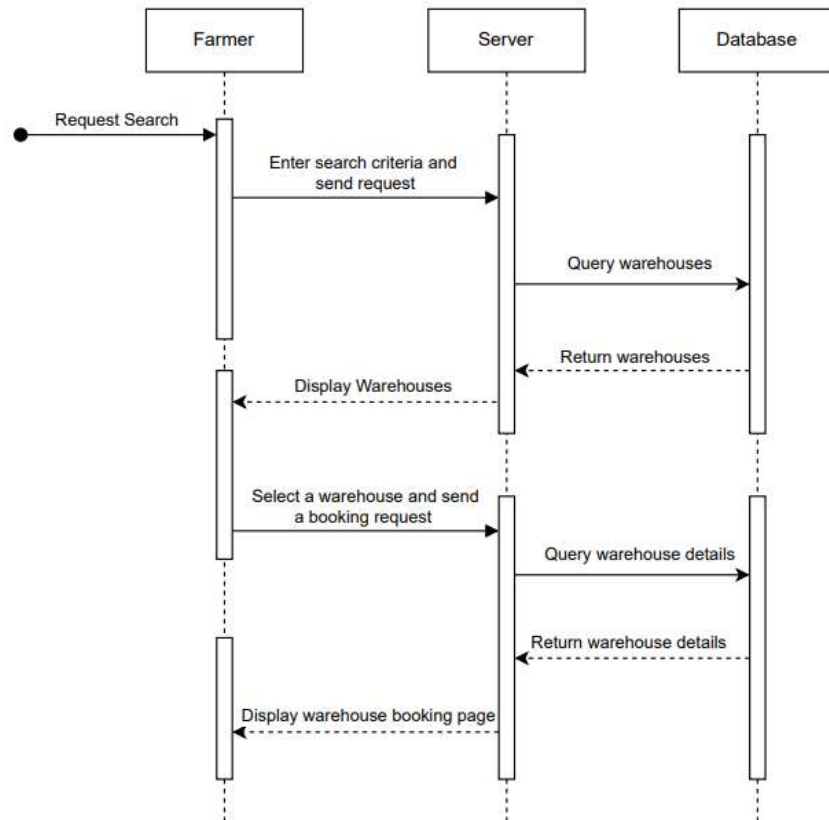
LOGIN



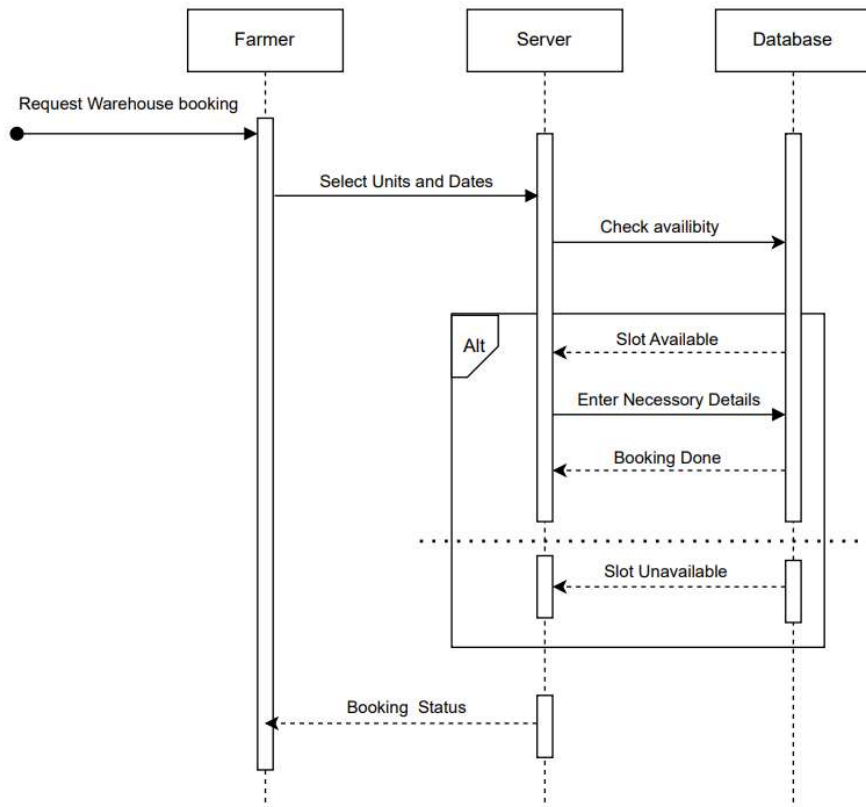
Register



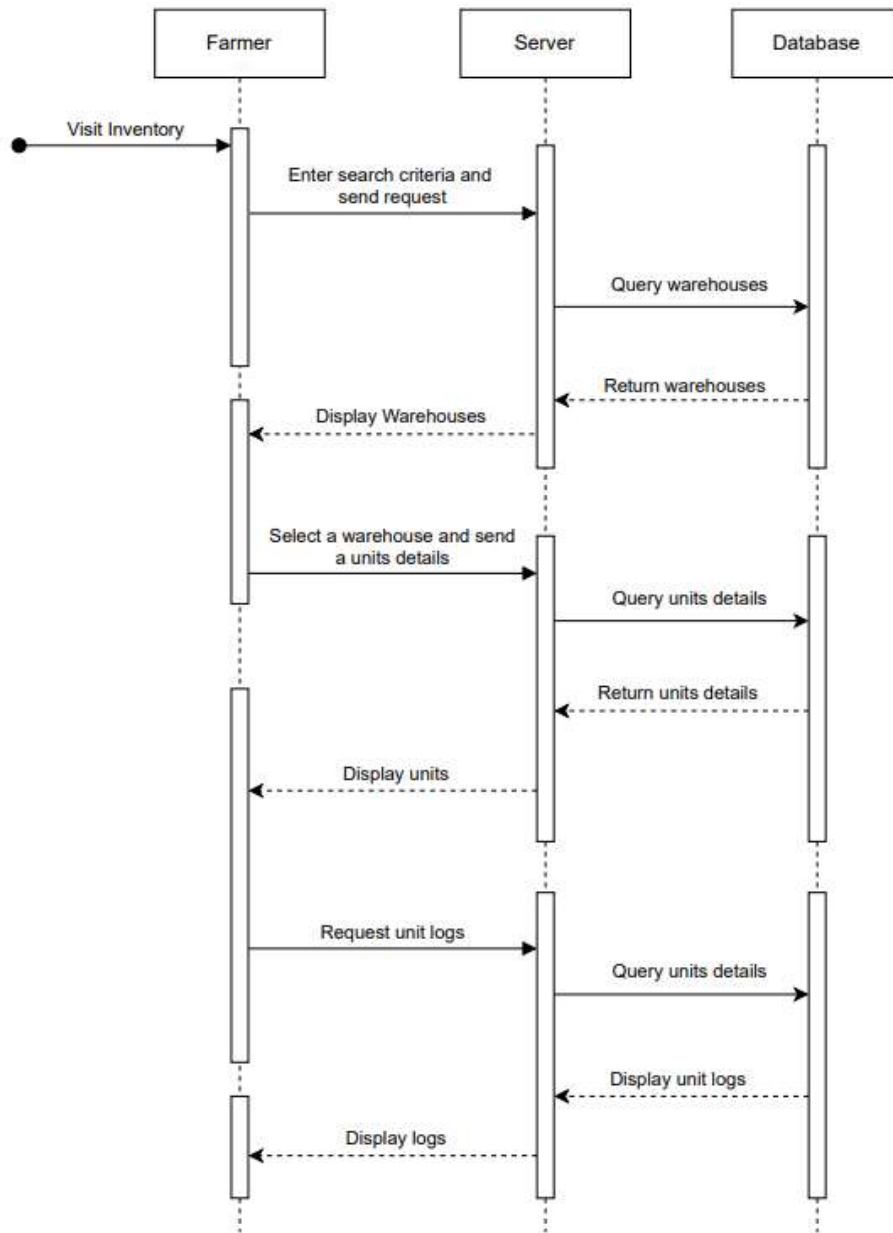
Search Warehouse



Book Warehouse

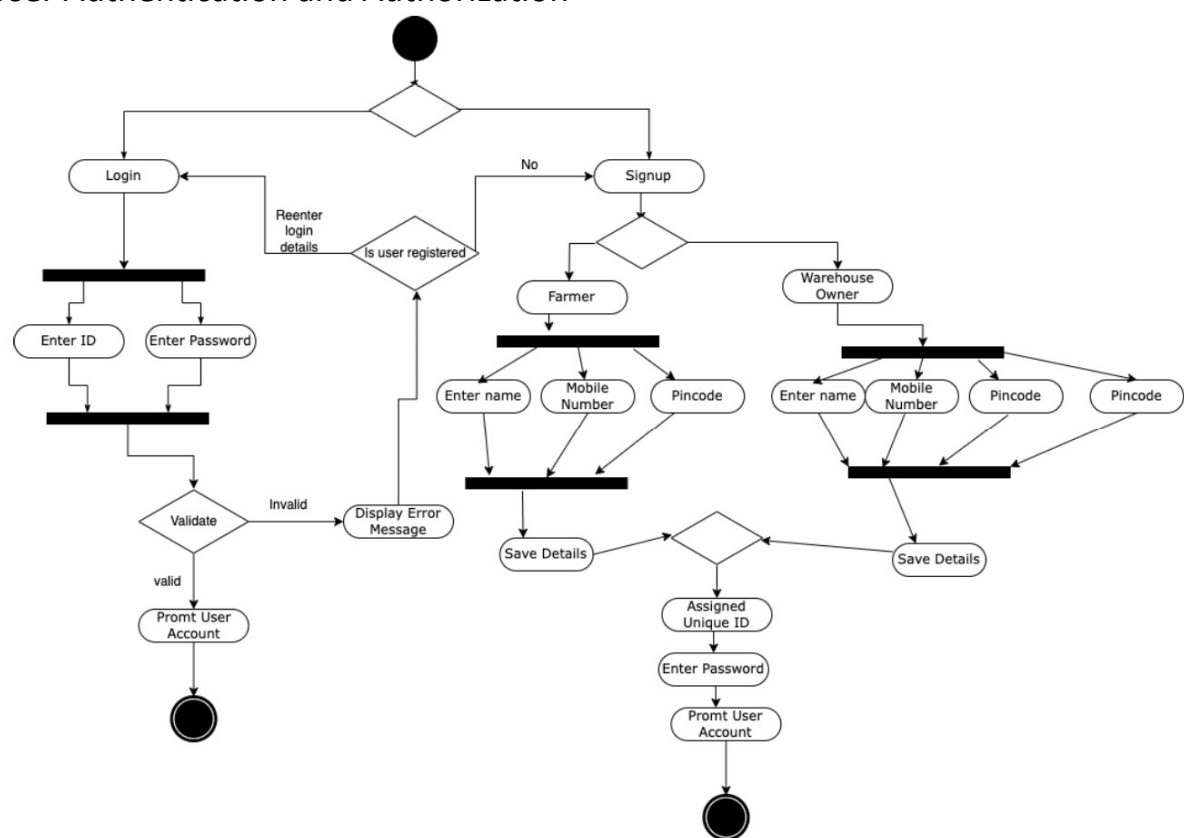


Request Unit log

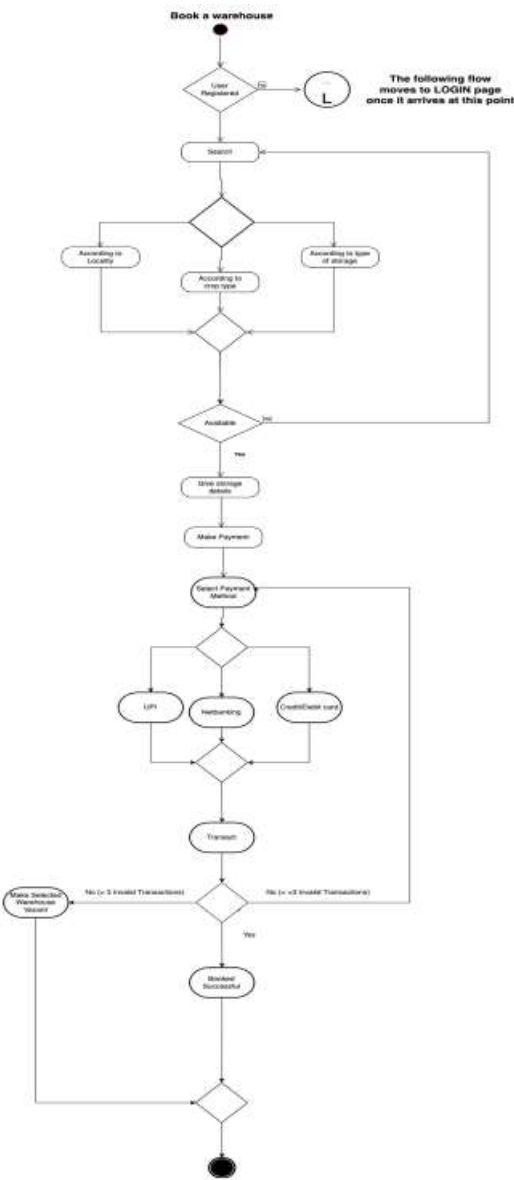


3. Activity Diagram

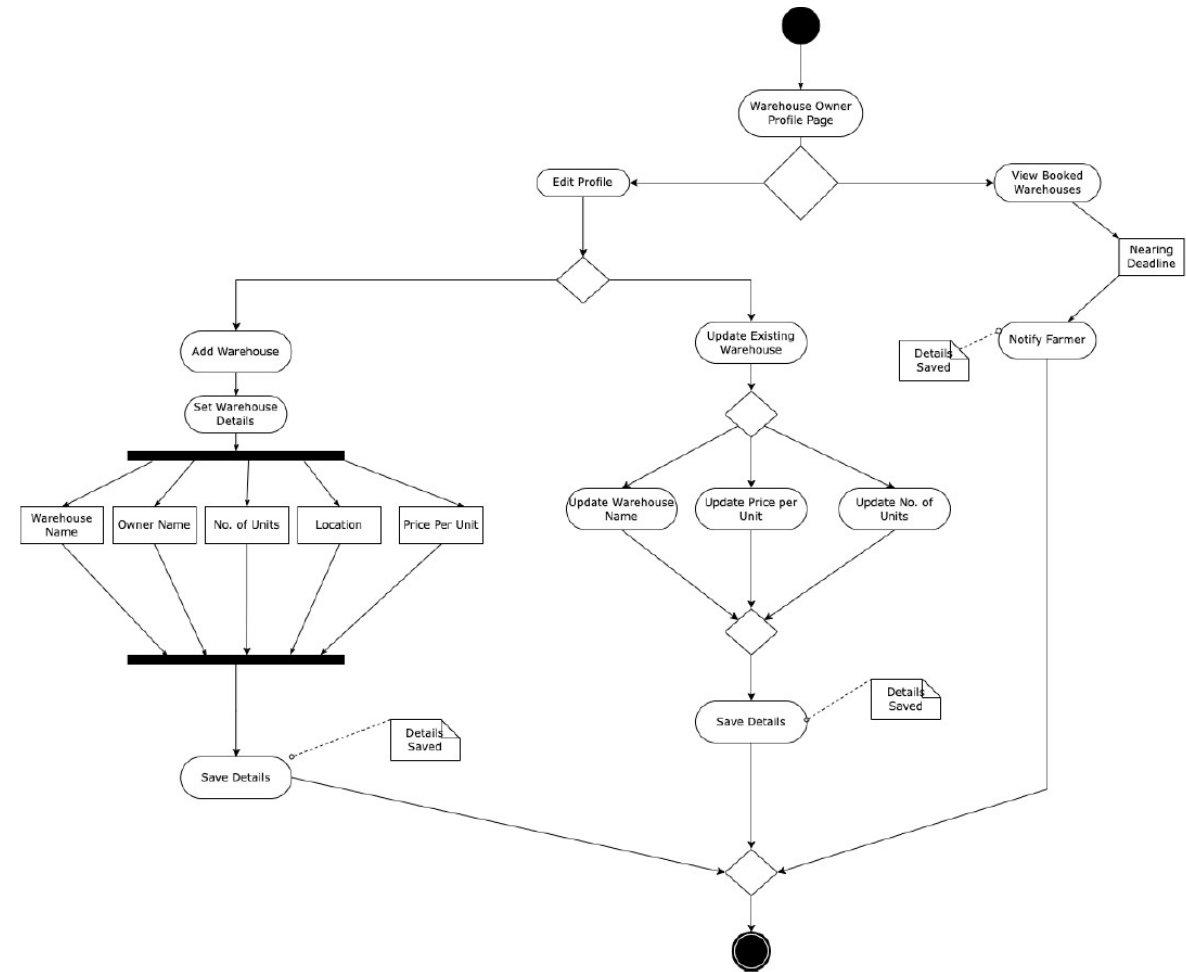
User Authentication and Authorization



Booking Warehouse



Warehouse Management Interface



4. Database Schema

