



CS251 - Introduction to SE

Winter 2022-2023

Toffee Candy Shop

Software Design Specifications

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Proudly Done By Team:
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Document Purpose and Audience

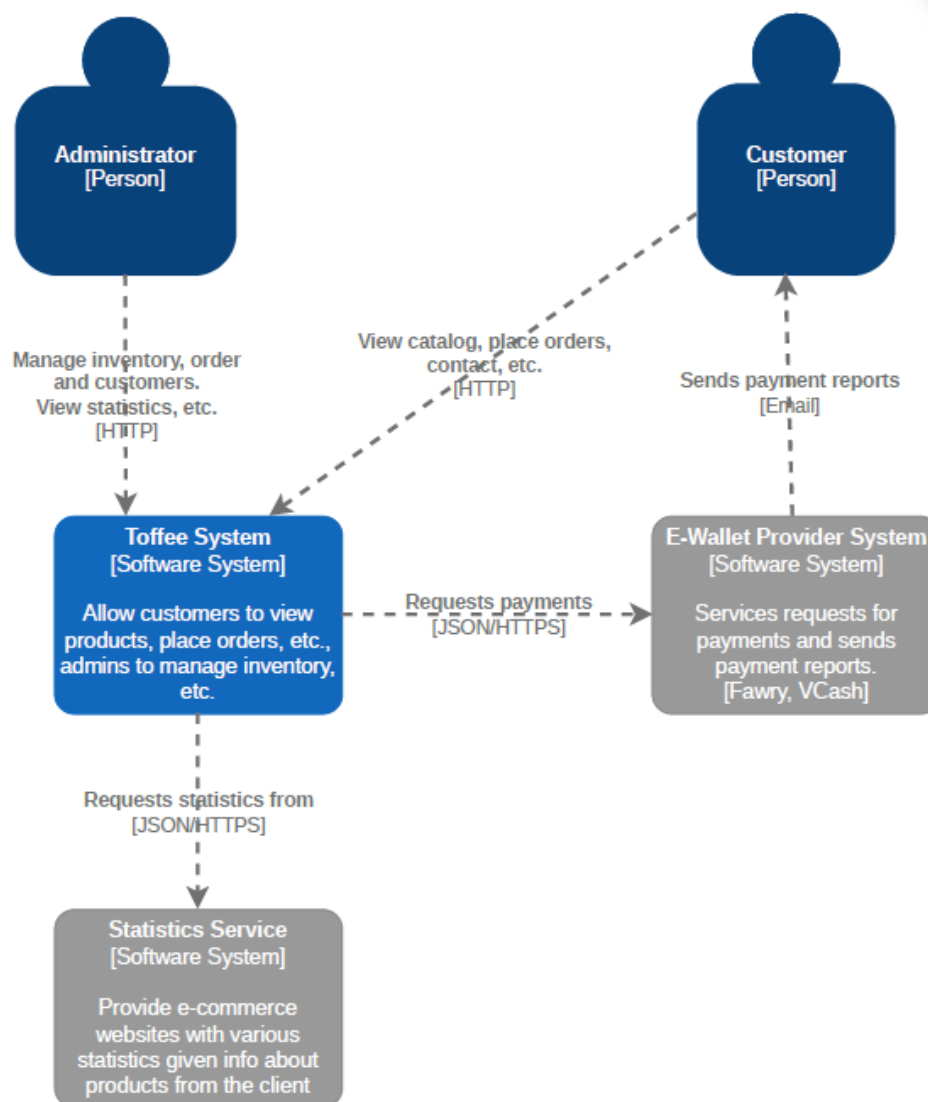
This document is the design manual (Software Design Specification) for Toffee e-commerce application. It serves as a reference for the architectural and design decisions, diagrams, and high level ideas of the system's different components and their interactions.

It is aimed specifically for the technical development team; architects, developers, testers, DevOps, etc.

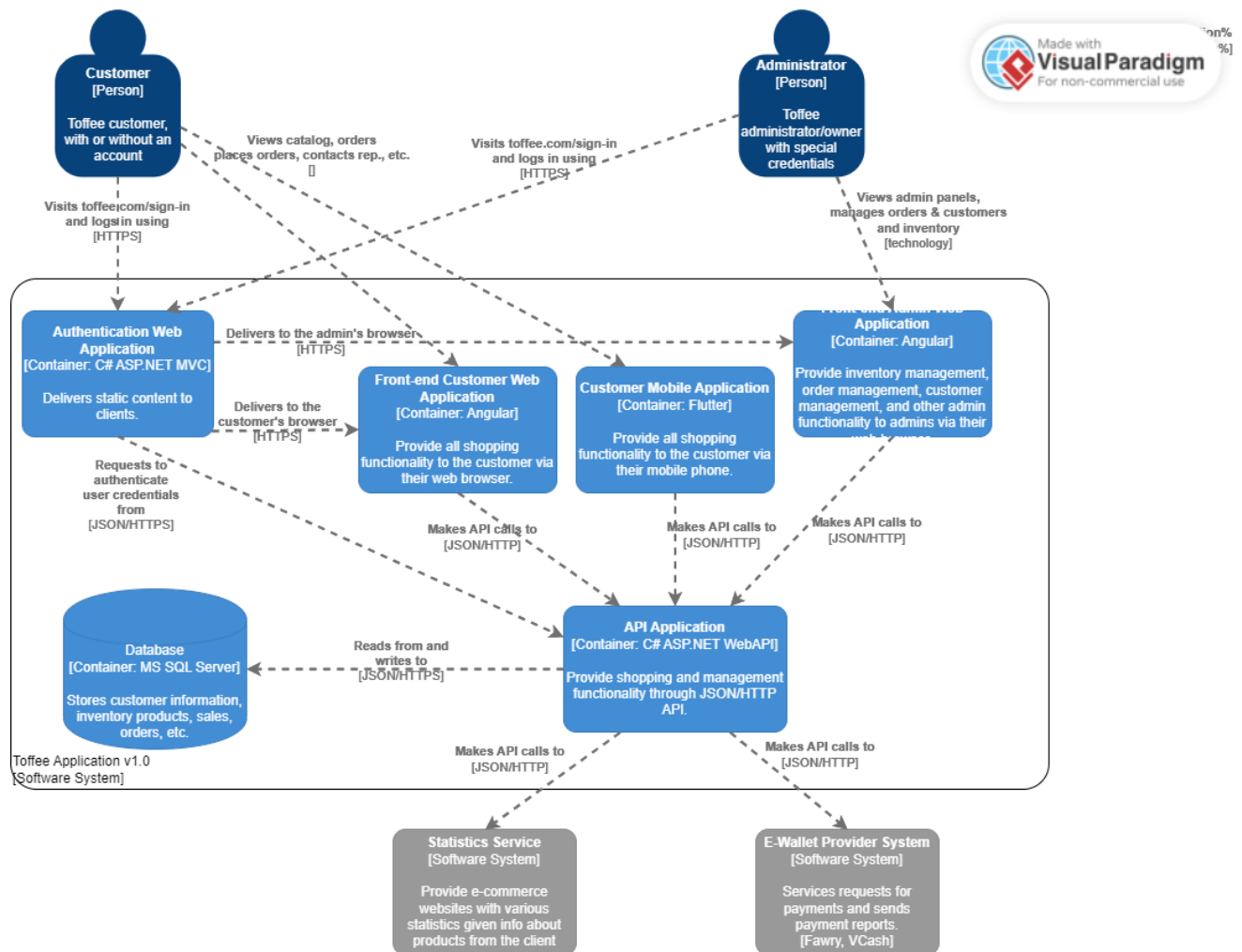
System Models

I. Architecture Diagrams

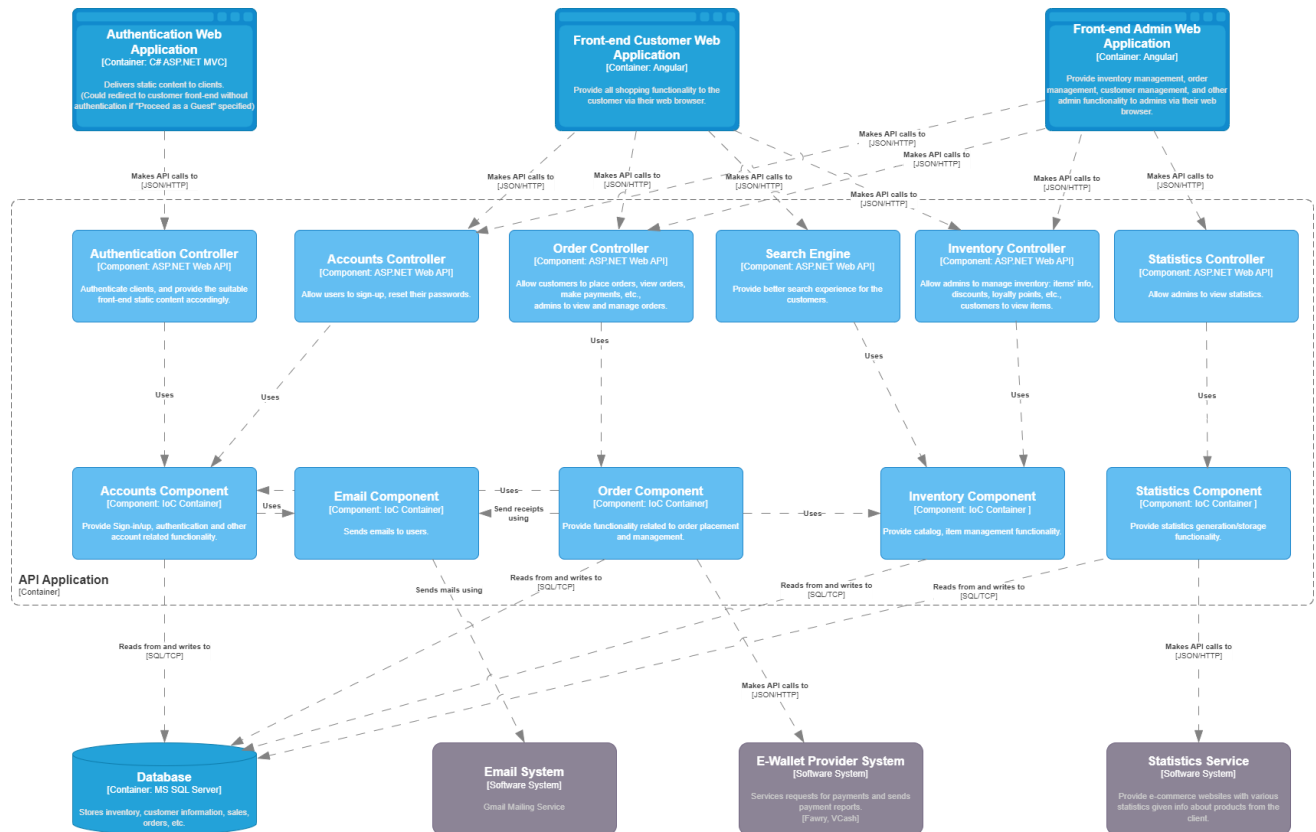
1- System Context Diagram for Toffee System:



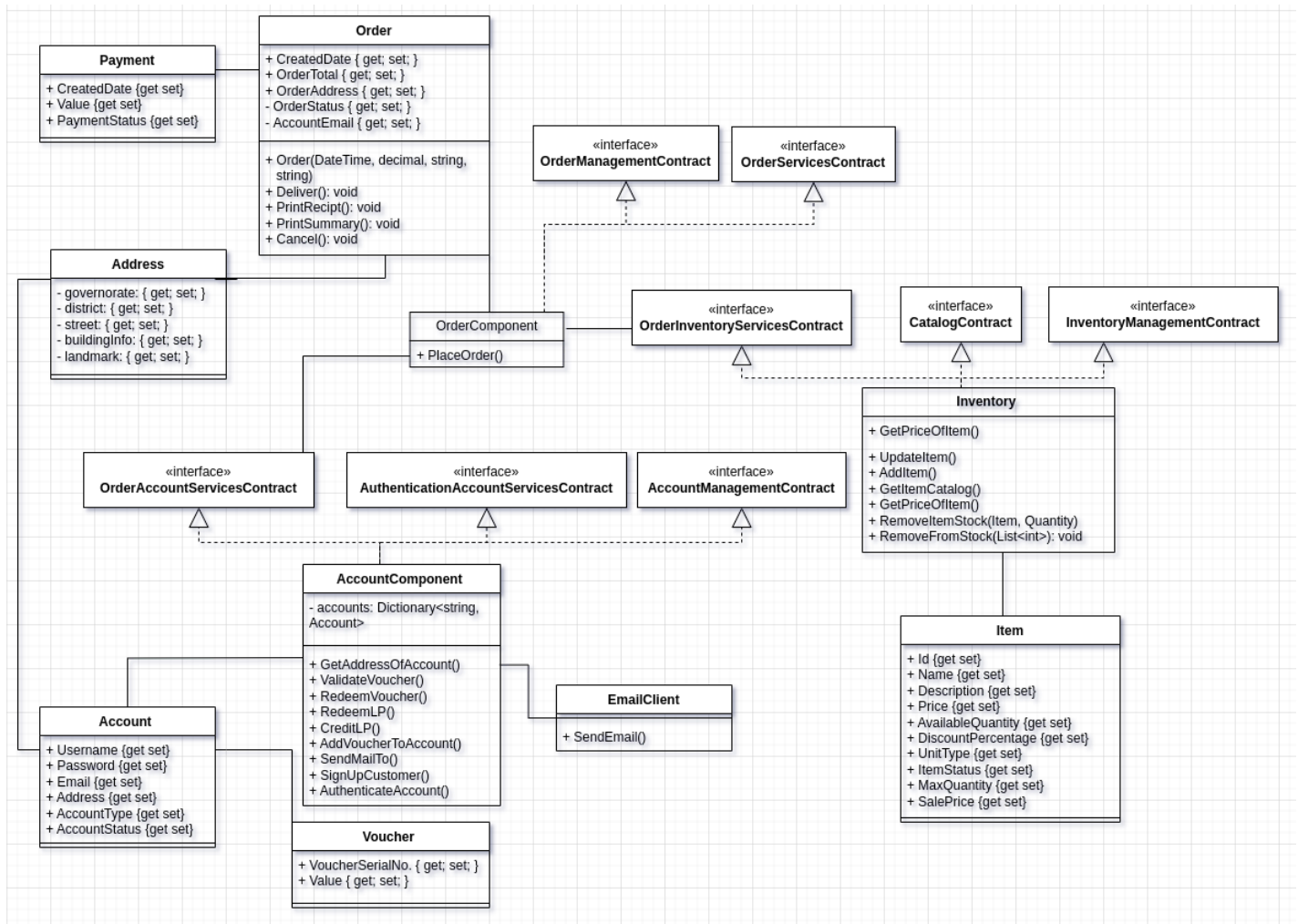
2- Container Diagram for Toffee System:



3- Component Diagram for Toffee System (API Application from the inside):

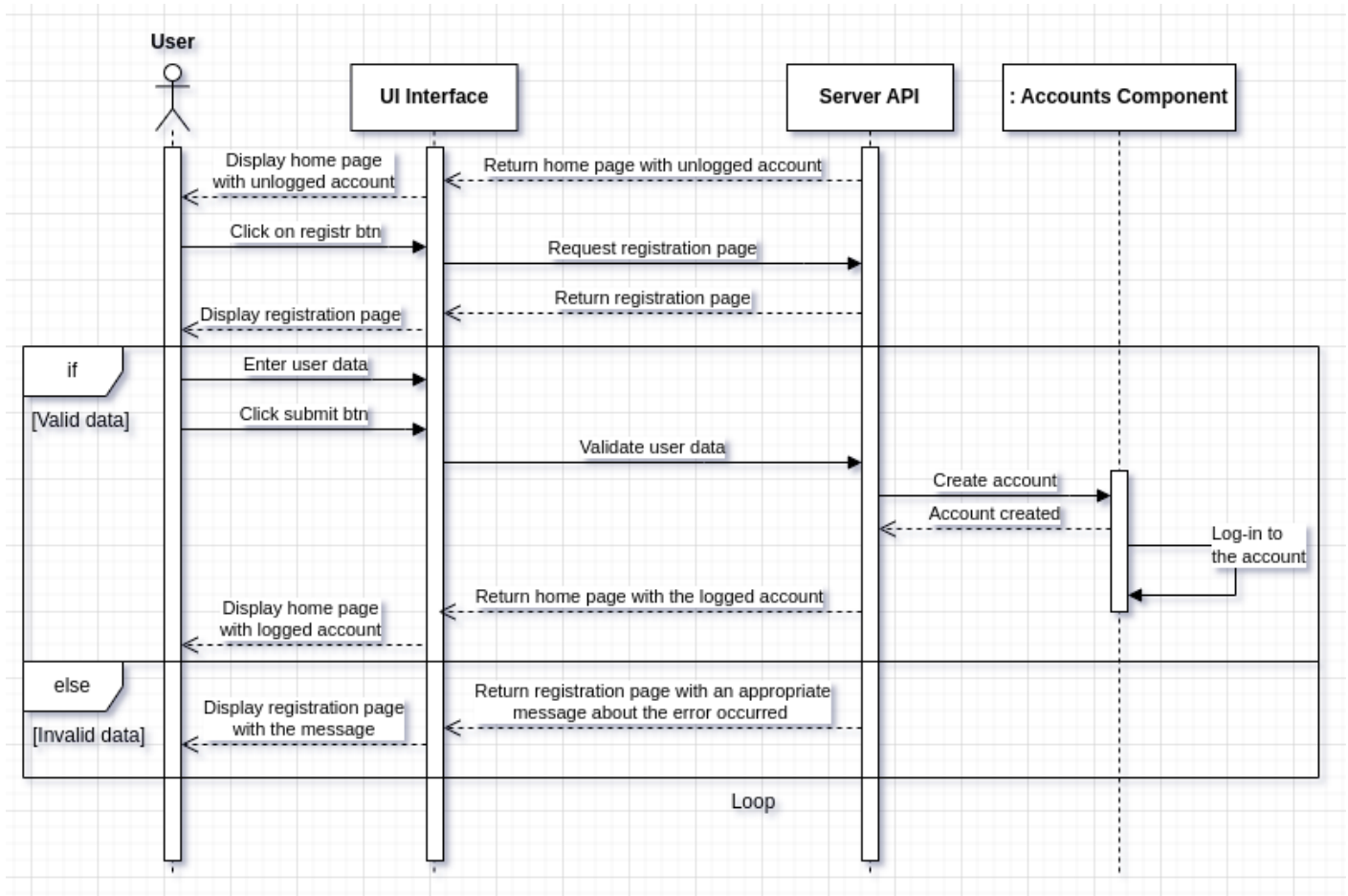


II. Class Diagram

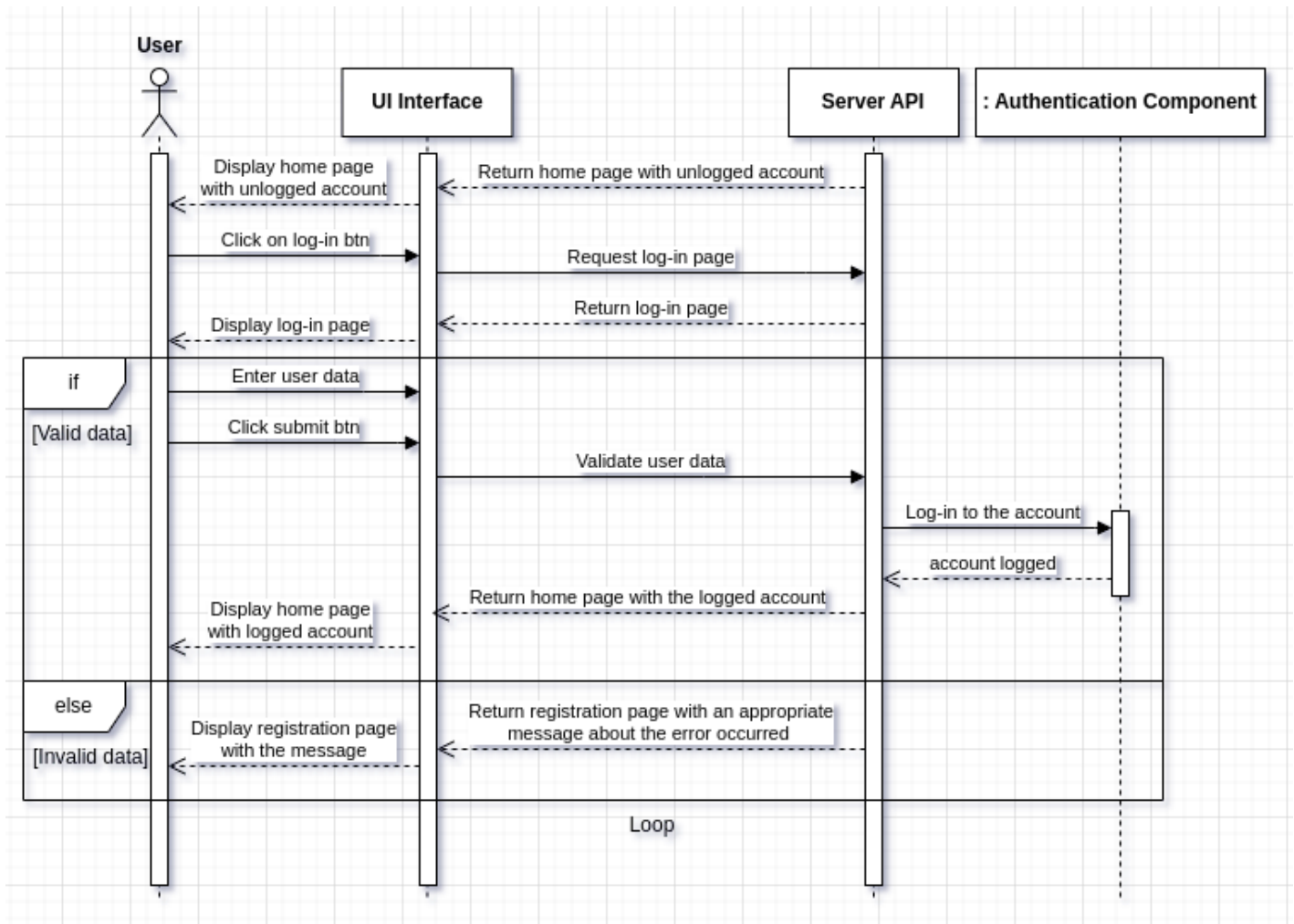


IV. Sequence diagrams

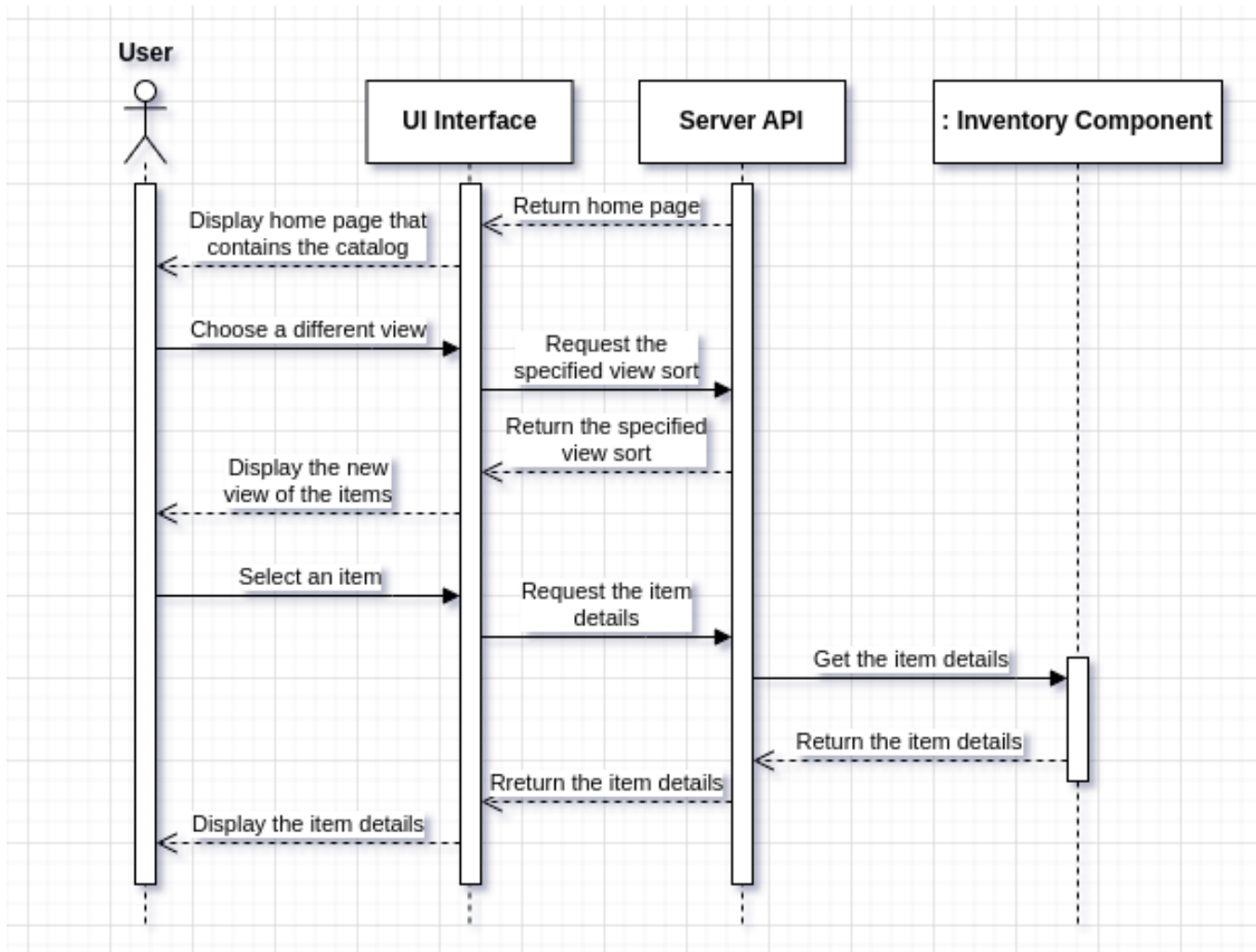
1- Registration Sequence Diagram:



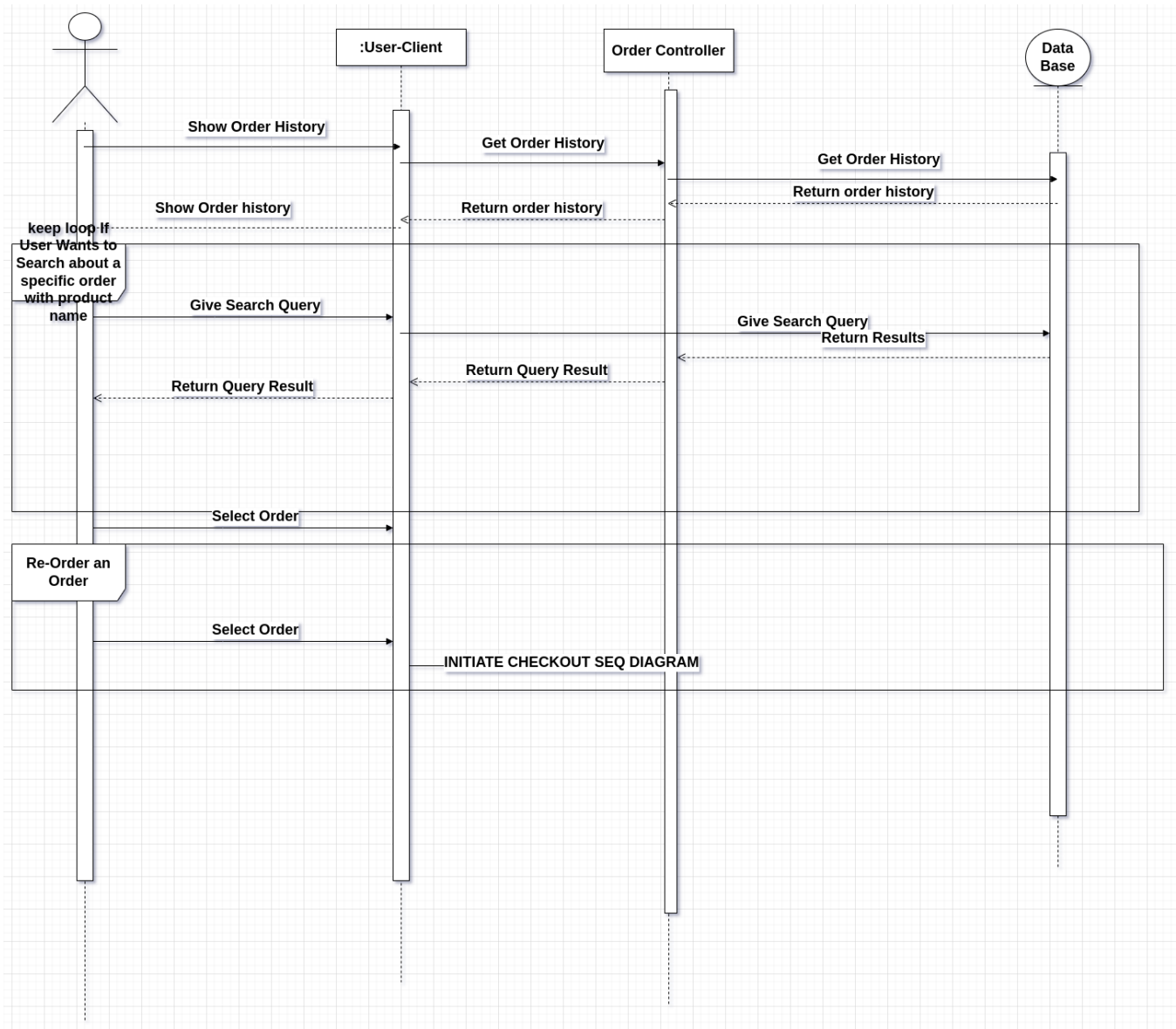
2- Login Sequence Diagram:



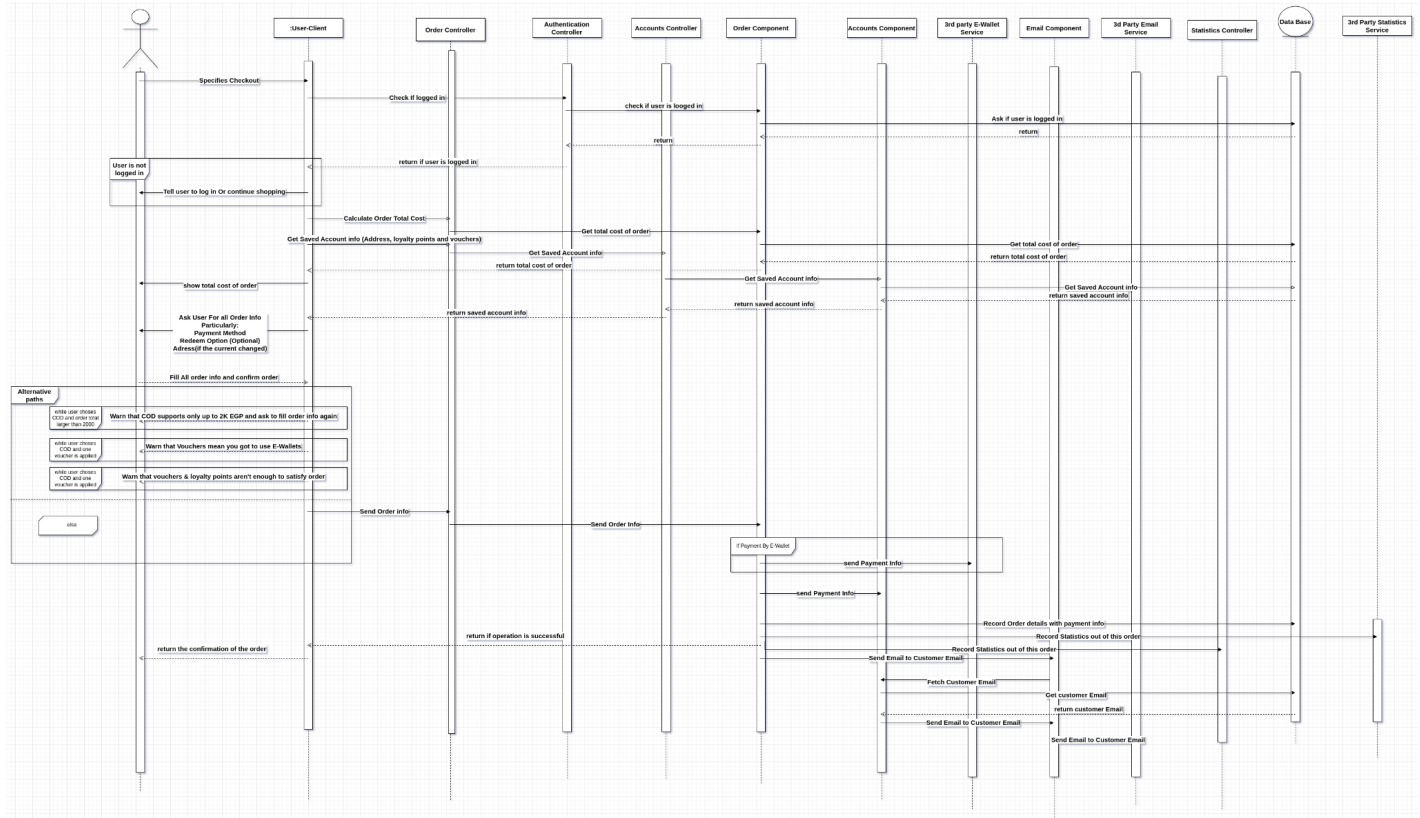
3- View Catalog Sequence Diagram:



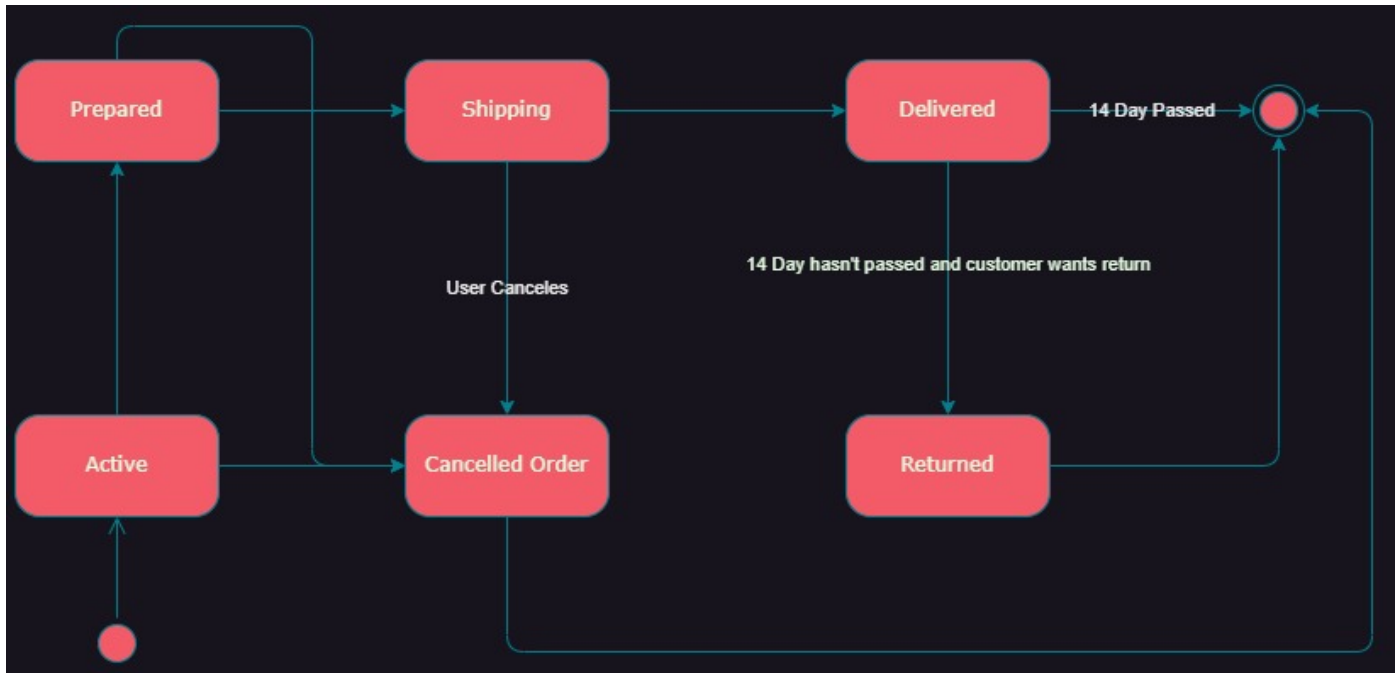
4- View Orders and Re-Order an old order:



5- Checkout and Sequence Diagram:



V. State Diagram



Tools

- **draw.io**
- Visual Paradigm