

# WaMa



## The Warehouse Management Application

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<https://github.com/Yuuji1140/CS151-WaMa>

# Agenda

- Introduction and Abstract
- Design Pattern (MVC)
- Architecture Overview
- Demo



# Introduction

- Application to manage warehouse inventory, orders and shipments
- Customers view products, create orders
- Employees view orders, create shipments
- Current solutions are expensive, complex, bloated with features
- Proposed solution: User-friendly Java GUI application
- Key features:
  - Inventory management
  - Order processing
  - Shipment tracking
  - Customer access
  - Intuitive, up-to-date GUI
  - **Real-time updates**

# MVC Design Pattern

- Model

- Model housed solely in the backend, managed by backend
- Represented by SQLite Tables ([Users](#), [Customers](#), [Products](#), [Orders](#), [Shipments](#), etc)
- Maintains state in a thread safe manner

- Viewer

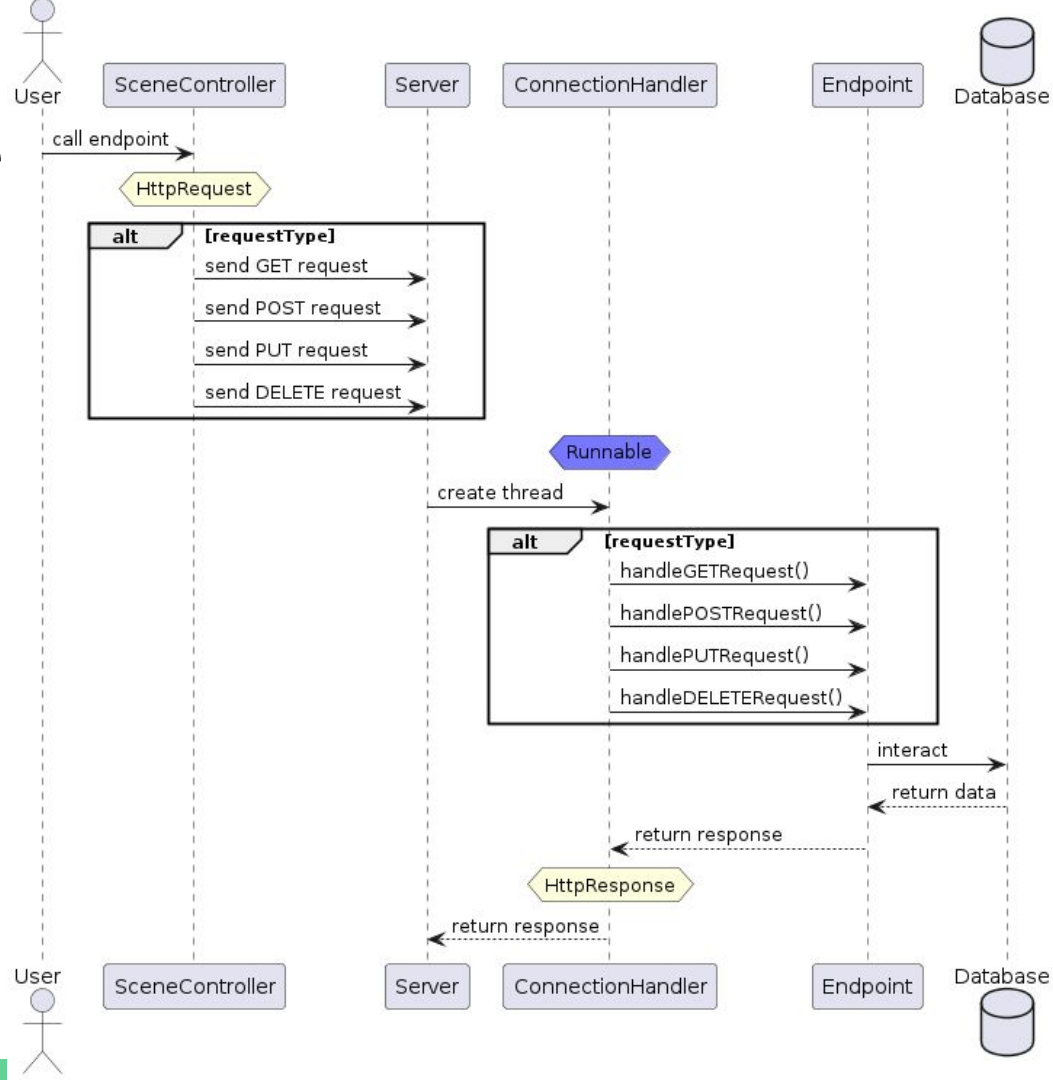
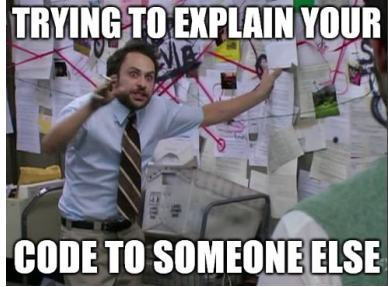
- GUI application each user uses to access the backend
- Renders predetermined responses to the backend
- Encapsulates controller logic
- [UpdaterThread](#) maintains current view

- Controller

- Frontend controller: create drafts, submit requests
- Backend controller: validate requests, manipulate model



# Architecture



# Demo

