

# Capstone Project

## Week 4 Progress Report

2/2/2026 - 2/8/2026

Commit range:

```
ea536c131fec5af3a9ec602d849da213d0e70f24 → HEAD
```

# Summary

This week focused on:

- Migrating server-side models & routes to **schema-driven validation** ( `zod` )
- Renaming domain concepts **restaurant** → **business**
- Adding **address** and **allergen** support
- Removing legacy model wrappers
- Updating client UI components & routes to match new contracts

# Key Outcomes

- Added typed **Zod schemas** for server validation
- Replaced legacy model objects with **schema-driven services**
- Renamed `restaurant` → `business` across client/server
- Added:
  - Address routes & services
  - Allergen routes + client-side `allergenCache`
  - Menu service improvements ( `item_type` )
- Removed legacy **mongoose models** and old tests

# New Files (Server)

- server/src/schemas/Address.js
- server/src/schemas/Allergen.js
- server/src/schemas/BusinessUser.js
- server/src/schemas/Menu.js
- server/src/schemas/MenuItem.js
- server/src/schemas/Business.js
- server/src/schemas/index.js

# New Files (Server Continued)

- server/src/routes/addressRoutes.js
- server/src/routes/allergenRoutes.js
- server/src/services/addressService.js
- server/src/services/menuService.js
- server/src/services/firestoreInit.js
- server/src/middleware/auth.js

## New Files (Client)

- `client/src/utils/allergenCache.js`  
→ Client-side allergen label cache

# Major File Modifications (Server)

- Updated many routes under `server/src/routes/*`  
→ Now use Zod schemas + refactored services
- Added `addressRoutes.js` and `allergenRoutes.js`
- Updated services:
  - `addressService.js`
  - `businessService.js`
  - `businessUserService.js`
  - `menuItemService.js`
  - `menuService.js`

## Major File Modifications (Server Continued)

- Added `firestoreInit.js`
- Removed entire `server/src/models/*` directory

# Major File Modifications (Client)

- Updated components to use **business** naming:
  - `EditBusinessInfo`
  - `ChooseBusiness`
  - `SetUp`
  - `Step1`

# Major File Modifications (Client Continued)

- Updated menu-related components:
  - `MenuDashboard.jsx`
  - `MenuCard.jsx`
  - `MenuItemPage.jsx`
  - `MenuItemSwap.jsx`
  - `MenuItemPanel.jsx`
- Updated routing in `client/src/App.jsx`
- Integrated `allergenCache` into menu UI

# Tests

## Removed

- Legacy tests under `server/src/routes/*.test.js`

## Needed next

- Unit tests for all `server/src/schemas/*`
- Unit tests for all `server/src/services/*`
- Integration tests for:
  - `allergenRoutes`
  - `client/src/utils/allergenCache.js`

# Rationale

## Why these changes?

- **Schema-driven validation**
  - Centralizes validation, removes duplication, improves testability
- **Naming consistency**
  - `business` aligns domain language across client/server
- **Service-oriented architecture**
  - Removes legacy mongoose models, simplifies backend
- **Feature completeness**
  - Address + allergen support improves UX and client functionality

# Files Touched (Concise)

## Added

- server/src/schemas/\*
- server/src/routes/addressRoutes.js
- server/src/routes/allergenRoutes.js
- server/src/services/addressService.js
- server/src/services/firestoreInit.js
- server/src/services/menuService.js
- client/src/utils/allergenCache.js
- server/src/middleware/auth.js

# Files Touched (Concise)

## Modified

- Many under `client/src/components/*`
- `client/src/App.jsx`
- `server/src/routes/*`
- `server/src/services/*`
- `docs/file-structure.txt`
- `server/package.json`

## Removed

- `server/src/models/*`

# How to Run / Verify Locally

Monorepo structure enables single commands for installing dependencies and running the app

## 1. Install dependencies

```
npm install
```

## 2. Run

```
npm run dev
```

# Metrics

## Total Project Statistics

- LOC: 6,858
- Production LOC: 6,851
- Test LOC: 7
- File count: 82
- Test file count: 4

# Metrics

## 🔥 Week 4 Burndown Rates

- 1/1 Week 4 feature completed
  - 100% total
  - ~14% per day
- 8/8 Week 4 requirements completed
  - 100% total
  - ~14% per day

# Metrics (Continued)

## 🔥 Sprint 1 Burndown Rates

- 1/4 Sprint 1 total features completed
  - 25% total
  - 25% per week
  - ~3% per day
- 8/41 Sprint 1 total requirements completed
  - ~19% total
  - ~19% per week
  - ~3% per day