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

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

🔥 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