

Capstone Project

Week 5 Progress Report

2/9/2026 - 2/15/2026

Commit range:

- `52c90c810d78b6bb2a90d51da8701d78c1c4b51c → f543c57962c212b3283e17db2e07f0ef0eedd01f`

See `project-statistics-detailed.md` for LoC and other project statistics.

Summary

This week focused on:

- Stabilizing server route error handling
- Expanding controller coverage for business & menu resources
- Implementing async route handling (`asyncHandler`)
- Improving client UX for menu items, allergens, and addresses
- Introducing new middleware, services, and shared components

Key Outcomes

- Centralized error handling with new `errorHandler` middleware
- Added controllers for:
 - `address`
 - `menu`, `menuItem`
 - `business`, `businessUser`
- Improved client UI:
 - Extracted shared `AddressFields`
 - Added `item_type` support
 - Integrated `allergenCache` into item flows
- Renamed `userRoutes.js` → `businessUserRoutes.js` for domain clarity

New Files (Server)

- `server/src/controllers/menuController.js`
- `server/src/controllers/menuItemController.js`
- `server/src/controllers/addressController.js`
- `server/src/controllers/businessController.js`
- `server/src/controllers/businessUserController.js`
- `server/src/middleware/errorHandler.js`
- `server/src/services/authService.js`
- `server/src/services/businessMembershipService.js`
- `server/src/utils/getIdToken.js`

New Files (Client)

- `client/src/components/common/AddressFields.jsx`
→ Shared address component used across setup & edit flows

Major File Modifications (Server)

- Applied `asyncHandler` across all routes
- Renamed `userRoutes.js` → `businessUserRoutes.js`
- Updated services:
 - `authService`
 - `businessMembershipService`
 - `addressService`
 - `menuService`
 - `menuItemService`
- Relaxed overly strict ID validation in schemas
- Updated `server.js` to use new middleware & route imports

Major File Modifications (Client)

- Extracted shared `AddressFields`
- Updated:
 - `EditBusinessInfo`
 - Setup Step 1
 - `AddMenuItem`
 - `AllergenList`
- Added `item_type` support
- Integrated `allergenCache` into menu item flows
- Made menu item description optional

Tests

Updated / Impacted

- Routes now async
- Schema relaxations change expected validation messages

Needed Next

- Unit tests for new controllers
- Integration tests for `errorHandler`
- Client tests for:
 - `AddressFields`
 - `allergenCache` integration

Rationale

Why these changes?

- **Centralized error handling**
 - Consistent formatting, cleaner controllers
- **Controller/service separation**
 - Clearer architecture, easier testing
- **UX improvements**
 - Shared components reduce duplication and improve maintainability
- **Pragmatic validation**
 - Relaxed ID formats reduce friction with Firestore documents

Files Touched (Concise)

Added

- Controllers: `menu`, `menuItem`, `address`, `business`, `businessUser`
- Middleware: `errorHandler`
- Services: `authService`, `businessMembershipService`
- Utils: `getIdToken`
- Client: `AddressFields.jsx`

Removed / Archived

- Non-MVP multi-menu features in `MenuItemPanel`
- Small admin var in `ProfileIcon`

Files Touched (Concise)

Modified

- `server/src/routes/*`
- `server/src/services/*`
- `server/src/schemas/index.js`
- `server/server.js`
- `client/src/components/*`
- `docs/file-structure.txt`

How to Run / Verify Locally

1. Install dependencies

```
npm install
```

2. Run

```
npm run dev
```

Manual Verification Checklist

- Menu creation/edit flows show correct item_type
- Business setup screens use shared AddressFields
- Server endpoints (/api/menus, /api/menuitems, /api/addresses)
 - Return expected shapes
 - Errors formatted by errorHandler

Notes & Next Steps

- Update tests for new controllers & error formatting
- Add Firestore emulator integration tests
- Consider memoizing allergenCache for heavy render paths

Completion Summary

This week improved backend robustness, expanded controller coverage, unified error handling, and enhanced client UX. The system is now more consistent, maintainable, and aligned with the domain model.

Metrics

Week 5 Burndown Rates

- 6/6 Week 5 requirements completed
 - 100% total
 - ~14% per day

Metrics (continued)

Sprint 1 Burndown Rates

- 1.5/4 Sprint 1 features completed
 - 37.5% total
 - ~19% per week
 - ~2.7% per day
- 14/41 Sprint 1 requirements completed
 - ~34% total
 - ~17% per week
 - ~2.4% per day