	<p>Zewail City for Science and Technology</p> <p>2025-2026</p>
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Course:	Mobile Application Development
Code:	SWAPD 402
type	Project

Due Date:	Nov 2025
Project name:	Flavor Feiasta

Under The Supervision of

Dr. Yousry Abdul Azeem

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Project Overview:

Description:

The recipe book app is a Flutter-based mobile application that helps users discover, organize, and manage cooking recipes. The core features are a digital recipe book, an ingredients checklist for shopping and preparation, profile management, and the ability to add new recipes. The project is structured across modular screens, utilizes persistent local/cloud storage, and incorporates modern UI/UX principles for ease of use.

App concept:

The app serves as a personal and shareable recipe organizer. Users can browse, add, and categorize recipes, maintain a checklist of needed ingredients, and customize their profiles for a tailored experience.

Main purpose:

The main goal is to simplify recipe management and meal planning, making it accessible and enjoyable to both amateur cooks and culinary enthusiasts.

Target Users:

- Home cooks
- Students
- Culinary hobbyists
- Anyone seeking meal inspiration or organization

Key Use Cases:

- Browsing and searching for recipes
- Managing a personal recipe collection
- Preparing an ingredient list for shopping
- Customizing app settings and user profiles
- Adding and editing recipes

Main Features:

Recipe Book

- Display a list/grid of recipes with images and summaries.
- Filter by cuisine, category, or user-created tags.
- View detailed recipe instructions with step-by-step procedures.
- Favorites and bookmarking support for quick access.

- Option to import/export recipes via API or file.
- Set alarms or step-based cooking timers with background notifications.

Ingredients Checklist

- Create ingredient lists linked to recipes.
- Check off ingredients as they are bought or prepared.
- Option to combine ingredients for multiple recipes into a single shopping list.
- Save and reuse frequent ingredient sets.

Profile Management

- User registration, login (with optional Firebase authentication).
- Profile screen showing personal preferences, saved recipes, and dietary restrictions.
- Edit profile information, change password, and manage notification preferences.
- Support for cloud sync or backup (optional but recommended).

Add Recipe

- Form to capture recipe details: name, image, ingredients, preparation steps, cook time, difficulty, etc.
- Input validation for mandatory fields.
- Option to upload a photo (camera/gallery integration).
- Save, edit, or delete user-created recipes.
- Assign recipes to categories/tags for organization.

Development Plan:

Project Milestones & Feature Evolution

- Phase 1: App Concept and Basic UI (Week 7)
 - Establish the basic Flutter app structure
 - Set up main navigation (e.g., bottom navigation bar)
 - Create three initial screens: Home, Add, List and Profile
 - Apply consistent UI design: color scheme, typography, spacing for responsiveness
 - Complete project idea documentation, stating the purpose and key use cases
- Phase 2: Core Functionality and Data Handling (Week 11)
 - Integrate data storage using SQLite or Firebase
 - Apply state management (e.g., Provider)
 - Add at least one API for external data interaction
 - Implement form handling, input validation, feedback to users
 - Introduce a device feature (e.g., camera integration, notifications, or GPS tracking)
- Phase 3: Finalization, Optimization, and Deployment (Week 15)
 - Enhance user experience with animations and transitions
 - Conduct performance optimization and debugging

- Add Firebase authentication or cloud sync (optional but recommended)
- Design and set app icon and splash screen
- Prepare final release build (APK)
- Finalize and submit comprehensive project report with screenshots and documentation


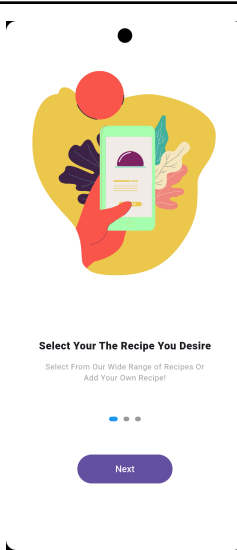
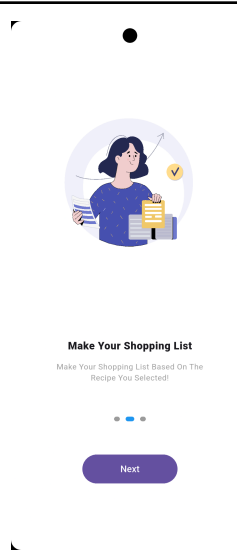
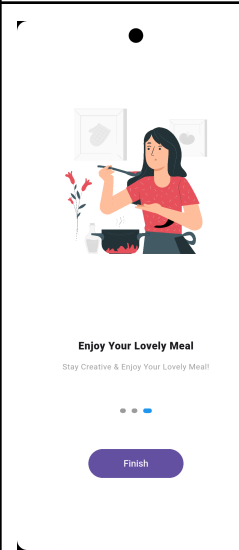
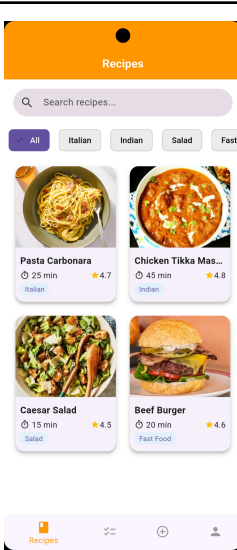
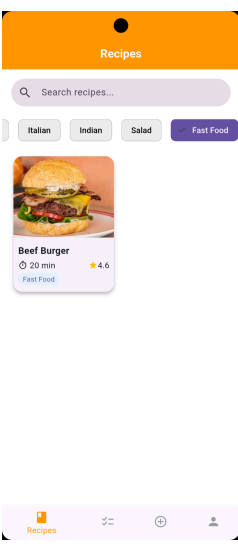
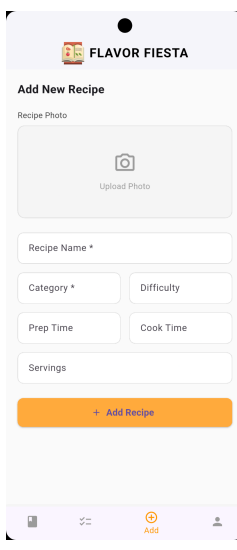
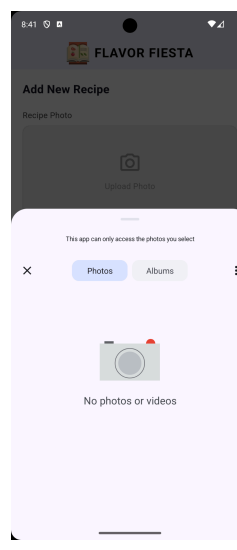
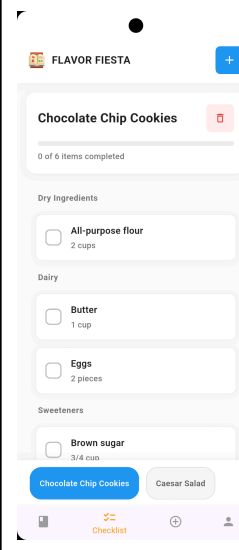
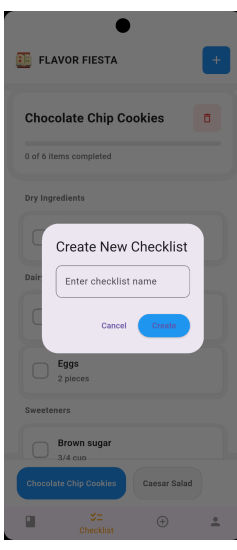
Main Modules/Screens Outline

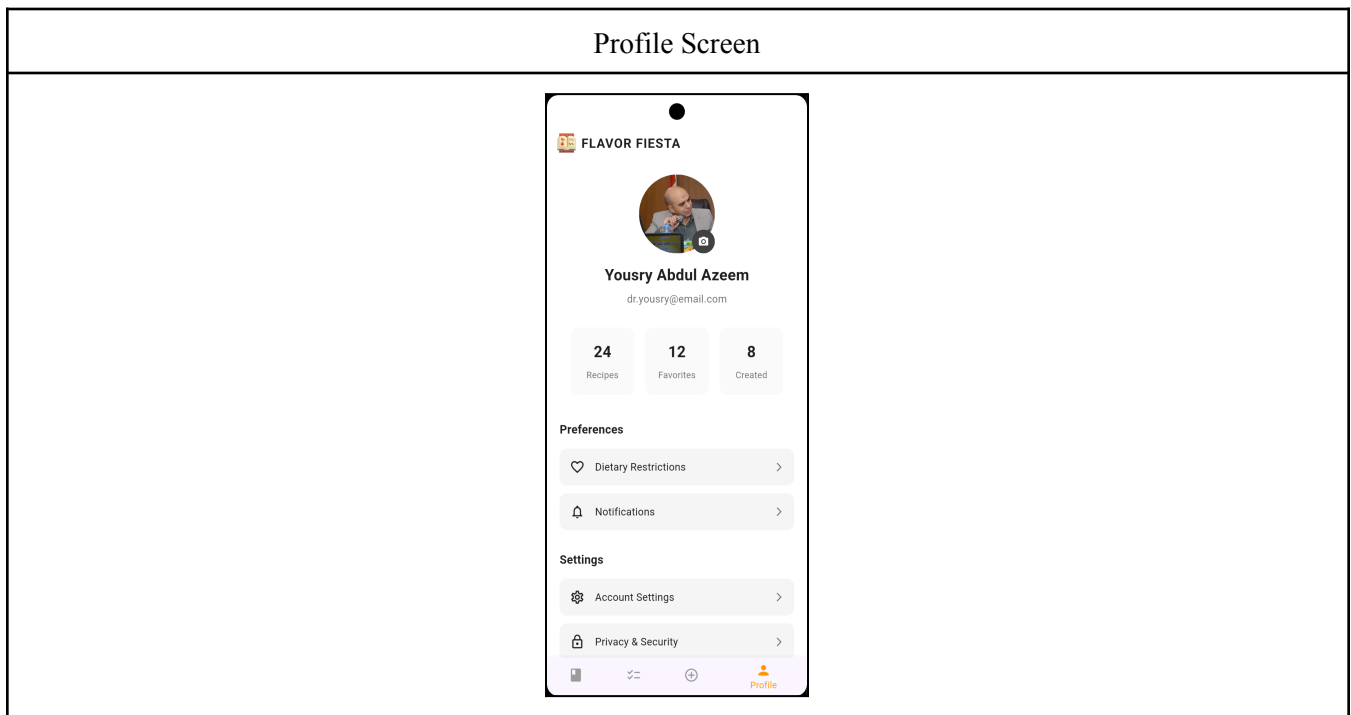
- Home: Dashboard, app overview
- Add recipe: Add custom recipes (Your Own)
- Shopping List: Make a shopping list for new recipes
- Profile: User details, preferences
- Data module: Database integration, API calls
- Device integration: Camera/GPS/Notification functionalities

Feature Evolution Plan

- Start with basic UI and layout
- Expand by adding persistent data and user input features
- Finish by optimizing interactivity, deploying the app, and documenting all changes

Sample Output (Phase 1):

Loading Screen	Onboarding Screen	Onboarding Screen	Onboarding Screen	Recipe Screen
				
Recipe Filter Screen	Add Recipe Screen	Add Recipe Screen	List Screen	Add List Screen
				



Appendices:

WireFrame: [Figma Link](#)

GitHub: [Food_Recipes_App](#)