

Problem

- Users lack a reliable and centralized platform to discover nearby food options and access consistent, experience based recommendations
- Detailed food reviews making it difficult to make informed dining decision

Stakeholders & Requirements

Stakeholders:

- Primary users: Students, young adults,and local diners using app to find places to eat
- Secondary users: restaurants using application to reach more diners and content creators trying to share their thoughts on local restaurants.

Key Requirements:

Functional:

- user sign up and login
- Short form video posting and viewing
- profile pages
- like, comment, saving and sharing functionality
- llm agent that uses information from posted videos to provide recommendations

Non-functional:

- Intuitive UI
- smooth video playback at at least 1080p
- All app and video loading times below 4 seconds

Our Solution

A social food app: food rediscovered

- Receive personalized recommendations from local restaurants.
- See the foods that are trending across the world and in their respective areas.
- Follow the foods their friends and chosen circle have tried.
- Upload videos of their own as they taste and rate restaurants.

Results & Evaluation

Results:

- Developed a functional Android social media application with video uploading and viewing, likes, comments, sharing, and saving functionality.
- Implemented an AI helper page to support food discovery and personalized restaurant recommendations.
- Created a functioning user system with account registration, login, and personal profile pages.

Evaluation

- Tested all applications to ensure responsiveness and smooth and clear usability
- Measured performance to verify that tested actions completed within four seconds under normal network conditions.

Performance Evaluation

Interaction tested	Observed time	Requirement	Result
Login button response	<1 s	<4 s	Pass
Sign-up button response	<1 s	<4 s	Pass
Login to first feed video	3.46 s	<4 s	Pass
Next video after swipe	<1 s	<4 s	Pass
End-of-feed recovery	2.00 s	<4 s	Pass
Navigation between tabs	<1 s	<4 s	Pass
Profile information load	<1 s	<4 s	Pass

Demo & Screenshots



Fig 1: Launch screen for app

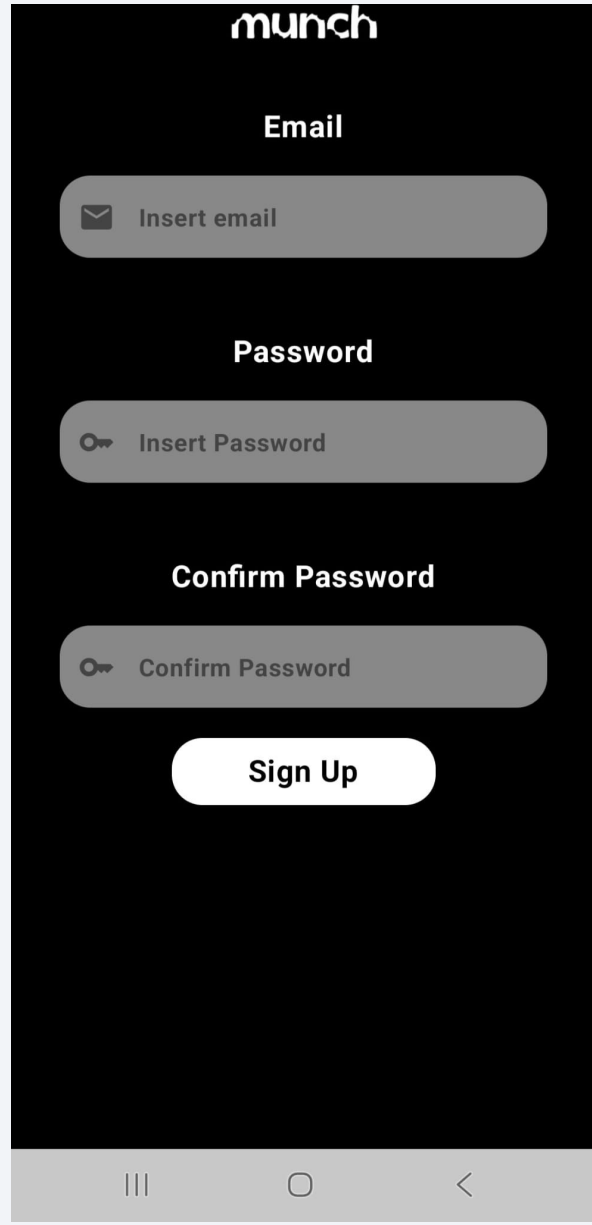


Fig 2: Log-in screen for app

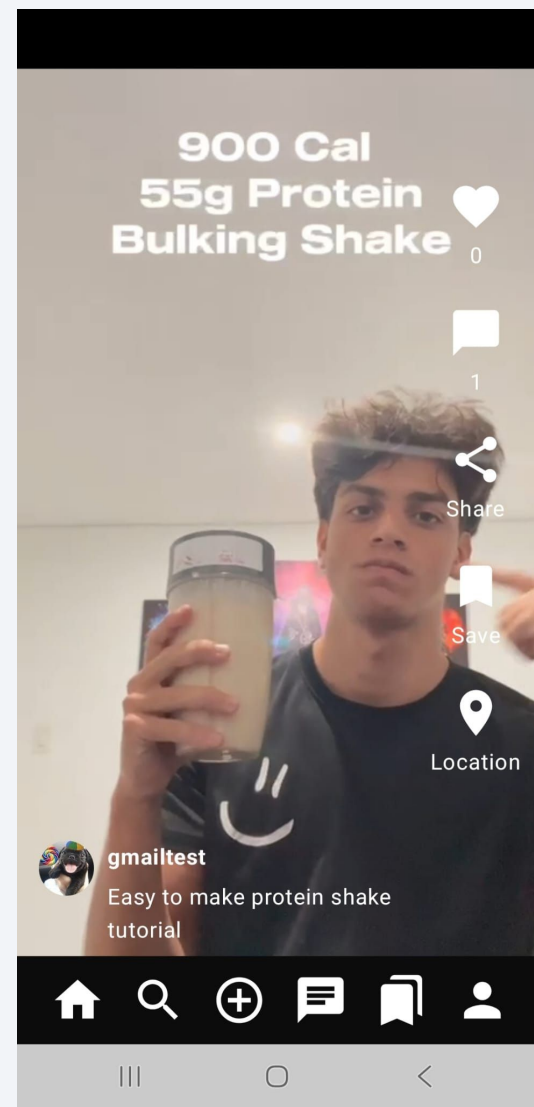


Fig 3: Main Video Feed page

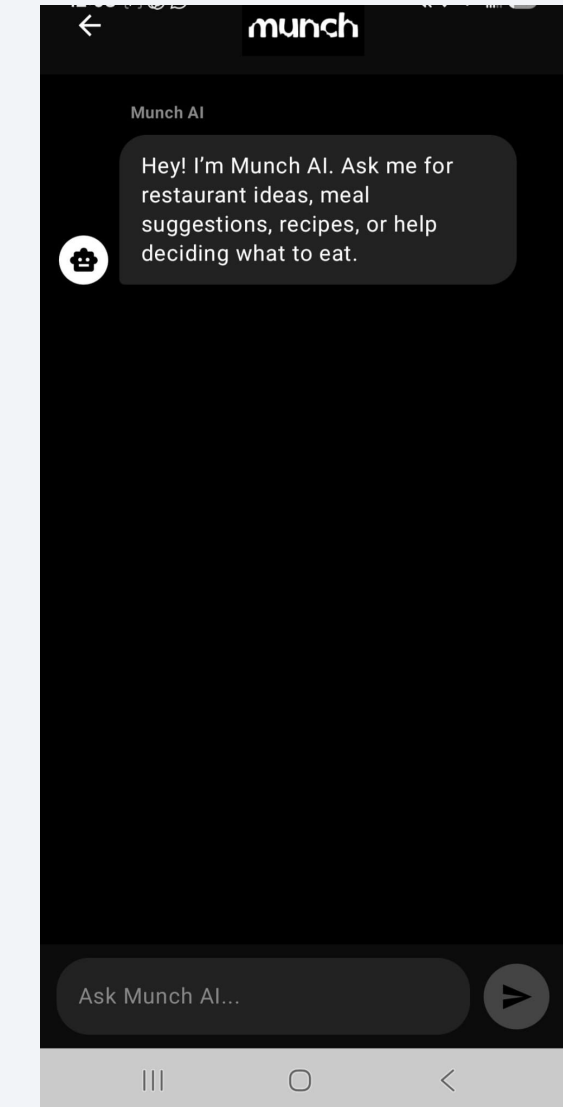


Fig 4: Ai helper page

Engineering Process (SO6)

- Followed an iterative SDLC approach: planning, design, implementation, testing, and refinement
- Key design decisions included using Firebase for backend services and a modular Android architecture for easier development
- Evaluated the prototype through manual testing, feature validation, time based trials, and usability review to guide improvements

Ethics & professional Practice

- Firebase Authentication and security rules protect user accounts and stored data.
- Location and profile data are limited to what is needed for recommendations.
- Uploaded content requires consent, moderation, and copyright awareness; AI recommendations may contain errors or bias.

What's Next

The next steps for the app go as follow:

- Work to train the build in agent better based on the information provided in user uploaded videos
- Work to develop a better feed algorithm to give people videos based on interest and proximity to restaurants

People & Acknowledgments

Team Leader: *David Fajardo*

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Architecture

