

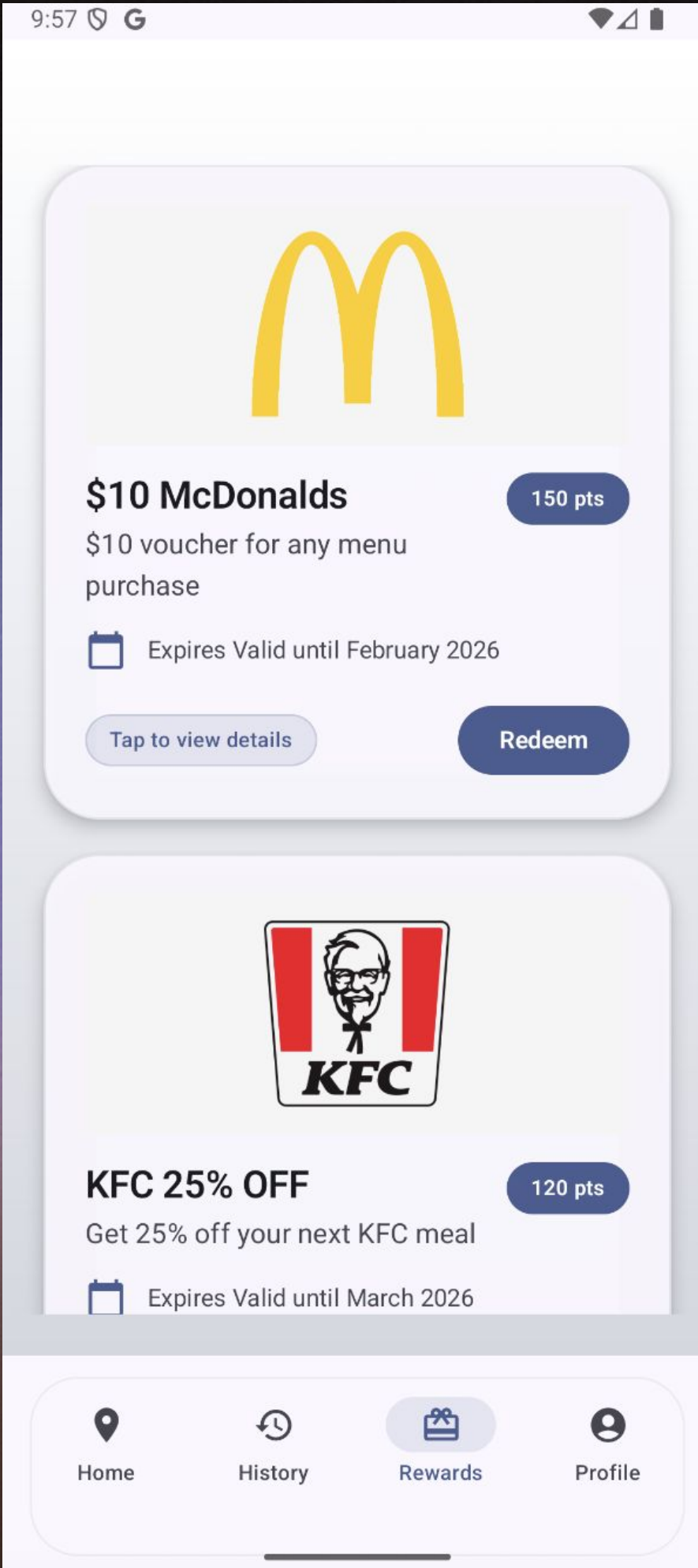
Qzone

DEC 16, 2025


A Location Based Survey Platform

Team member: Zhenyang Qian, Xuotong Fu, Yifei Bao

Live Demo




Nearby Surveys

 Boston, Massachusetts

2 completed nearby

Market Research Survey

Your opinions matter! Help us understand market trends and preferences.


 Brookline, Massachusetts

4 questions



Quick Feedback Survey

A quick 2-question survey





 Brookline, Massachusetts

2 questions



 Top

Shake device to refresh

 Home  History  Rewards  Profile

Problem and Solution

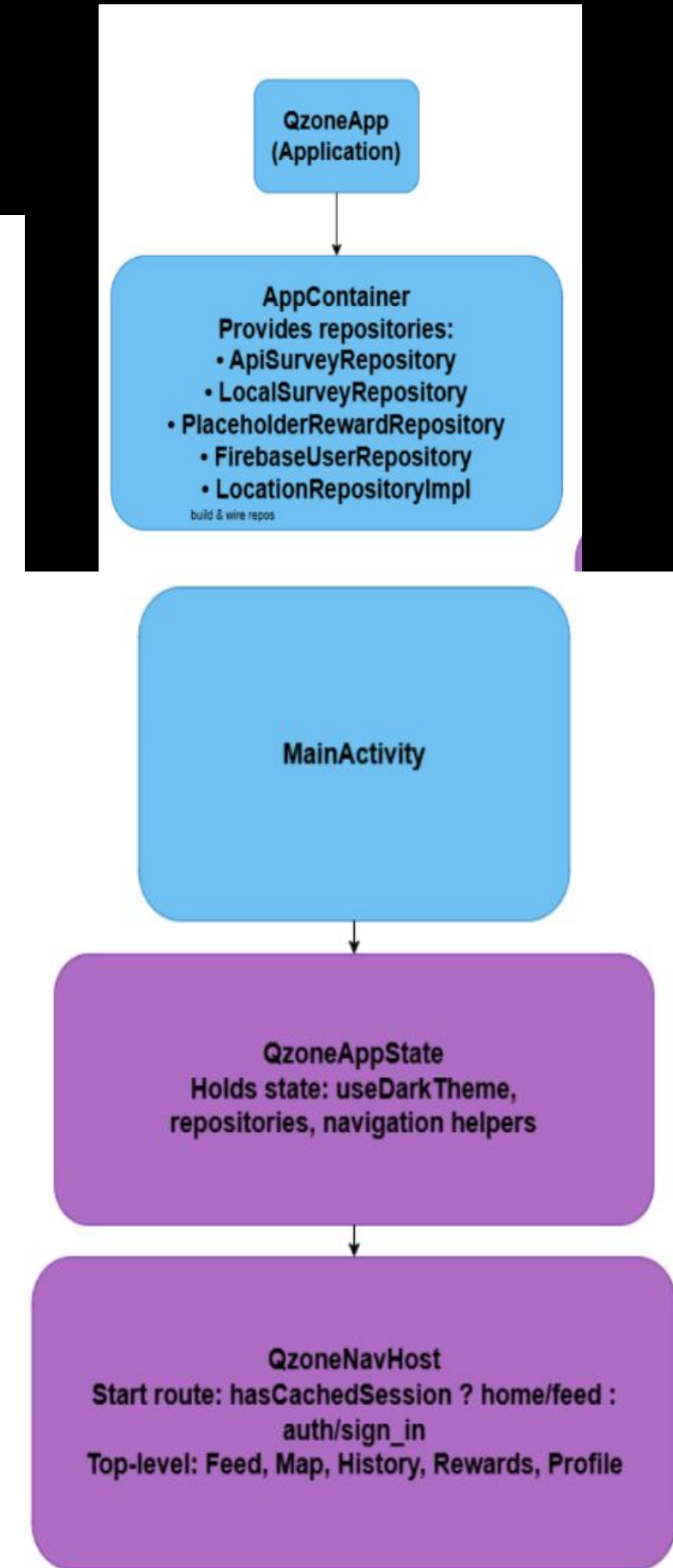
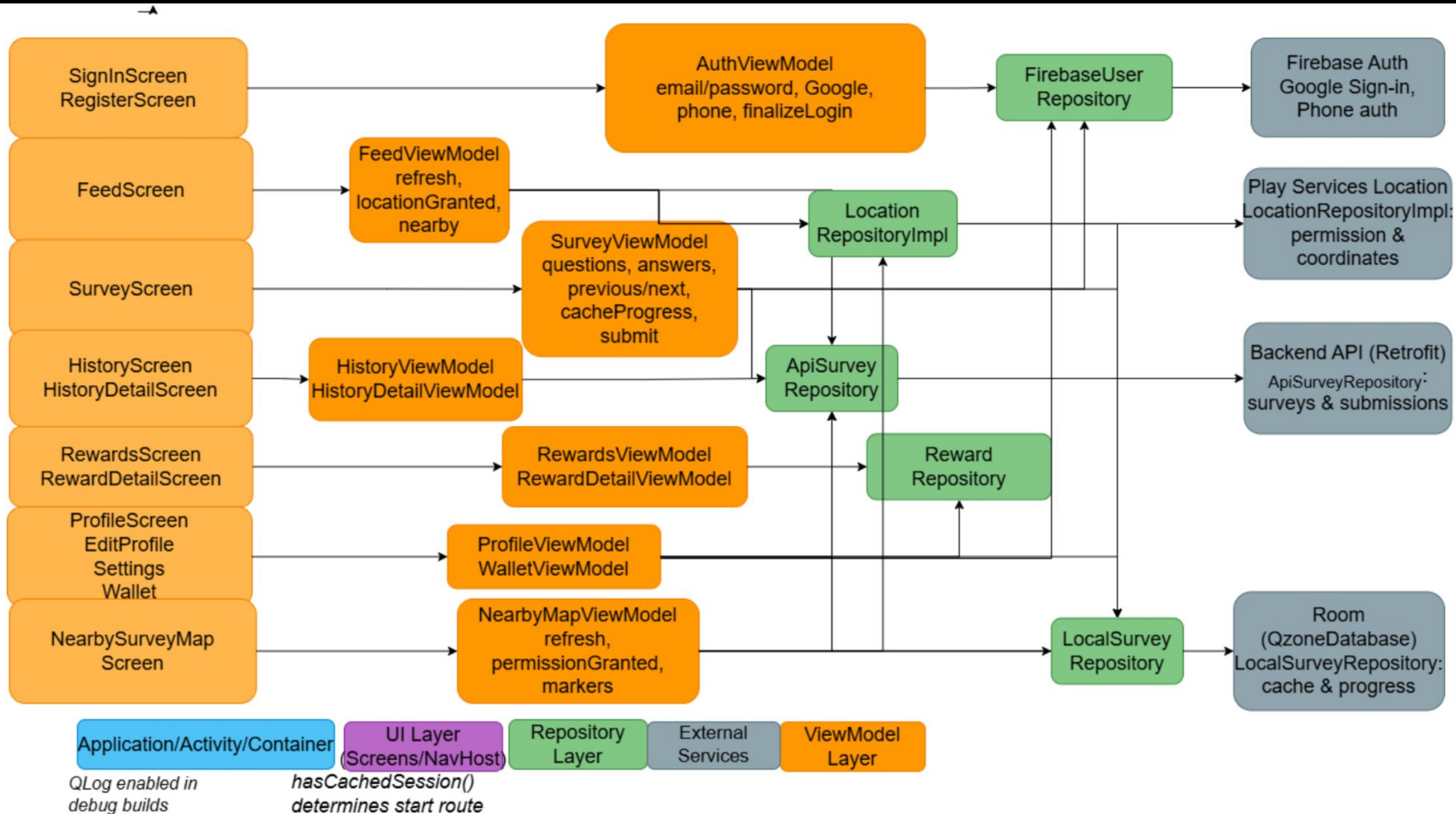
Problem

1. Traditional survey methods (web forms, email links) deliver a **poor mobile experience**.
2. **Low engagement and motivation** due to lack of instant, meaningful rewards
3. Existing tools provide **limited or no real-world geo-targeting capabilities**

Solution

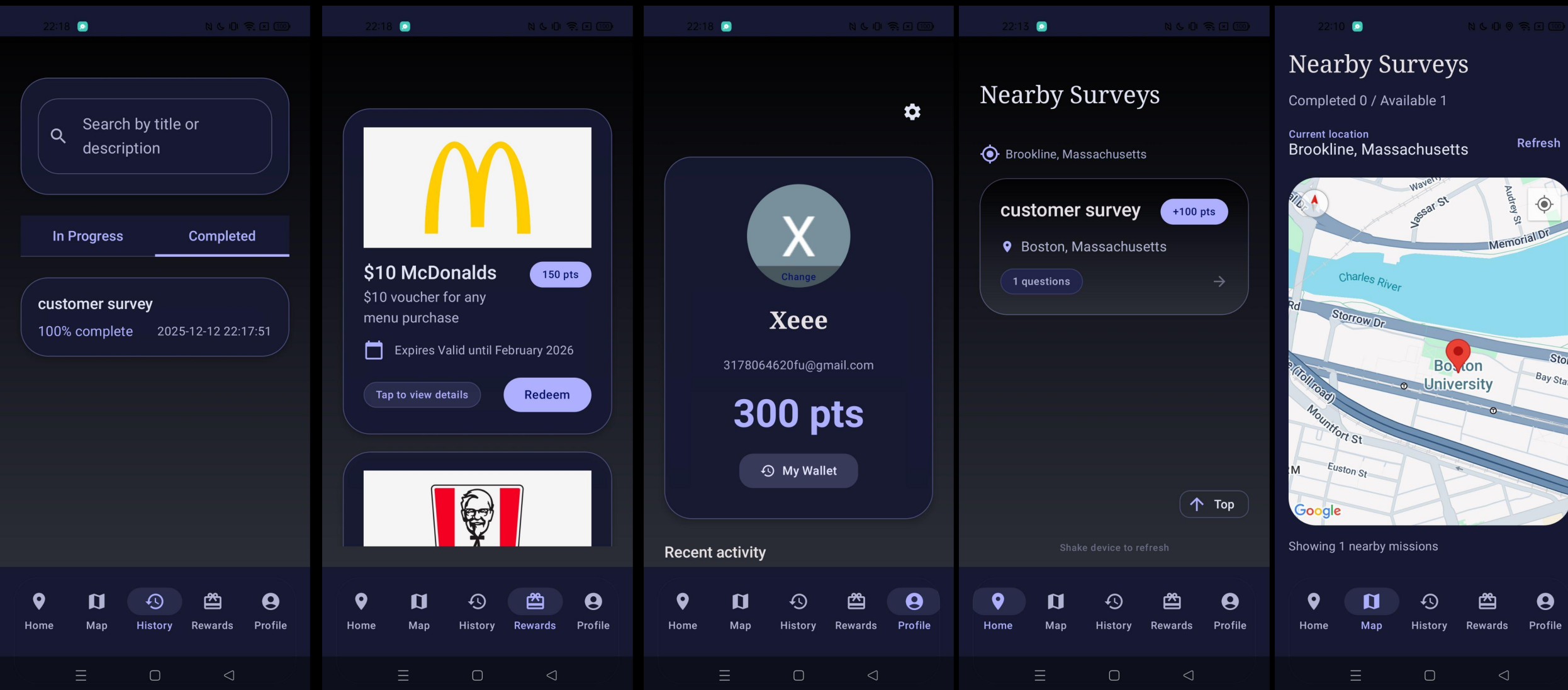
1. **Gamifies participation** through **rewards**, increasing engagement and completion rates.
2. Enables creators to target users dynamically based on real-world location

Architecture Overview



Features and Screenshots

What has changed ?



1. Survey history search
2. Mapview
3. Shake to refresh
4. Reward redemption logic
5. Wallet implementation
6. UI (dark/light)
7. Phone verification

Challenges & Lessons

Challenges:

1. Token management and refresh logic was complex
2. Unnecessary UI recompositions and app stuttering
3. Users need access to surveys when network is unavailable

Solutions:

1. Centralized token handling in `AuthTokenProvider` with automatic refresh
2. Use a `hasLoadedFromNetwork` flag in `FeedViewModel` to prevent local cache updates from triggering UI state updates once network data has been loaded.
3. Room database caches surveys locally, enabling offline access

Team growth:

1. Unified Design and System Conventions
2. Systematic Debugging and Testing Practices
3. Use-Case Decomposition and Fast Iteration
4. Improved Documentation and Knowledge Sharing

Work Division

Xuetong: Java Backend / API,
login/register, data storage

Yifei: Survey flow, question UI,
rewards and redemption logic

Zhenyang: UI/UX design, History
page, Profile page

November 12, 2025 – December 12, 2025

Overview

12 Active pull requests

0 Active issues

12

Merged pull requests

0

Open pull requests

0

Closed issues

Summary

Excluding merges, **4 authors** have pushed **42 commits** to main and **61 commits** to all branches.

On main, **80 files** have changed and there have been **8,396 additions** and **1,169 deletions**

Top Committers

