Qzone

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A Location Based Survey Platform

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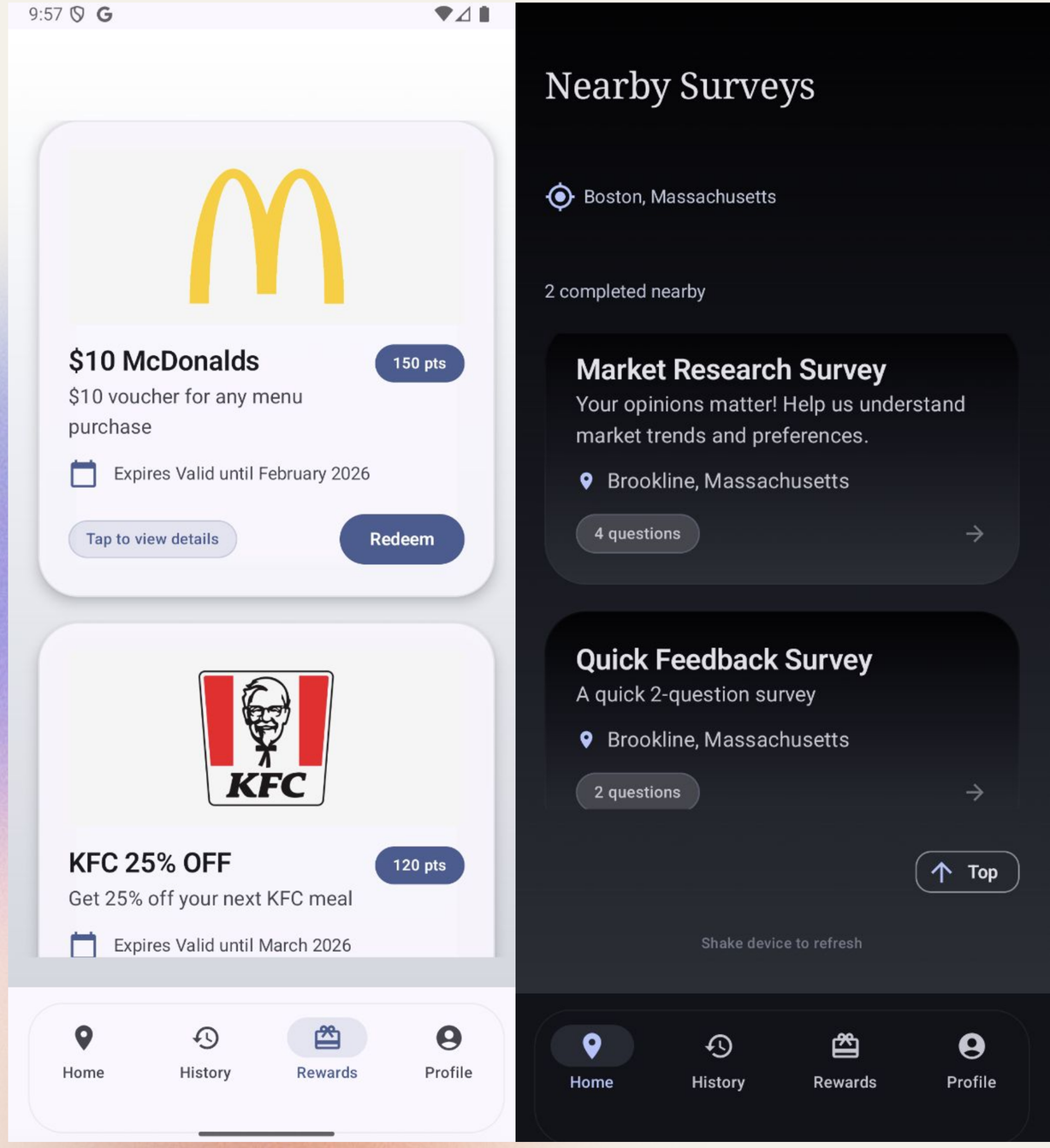
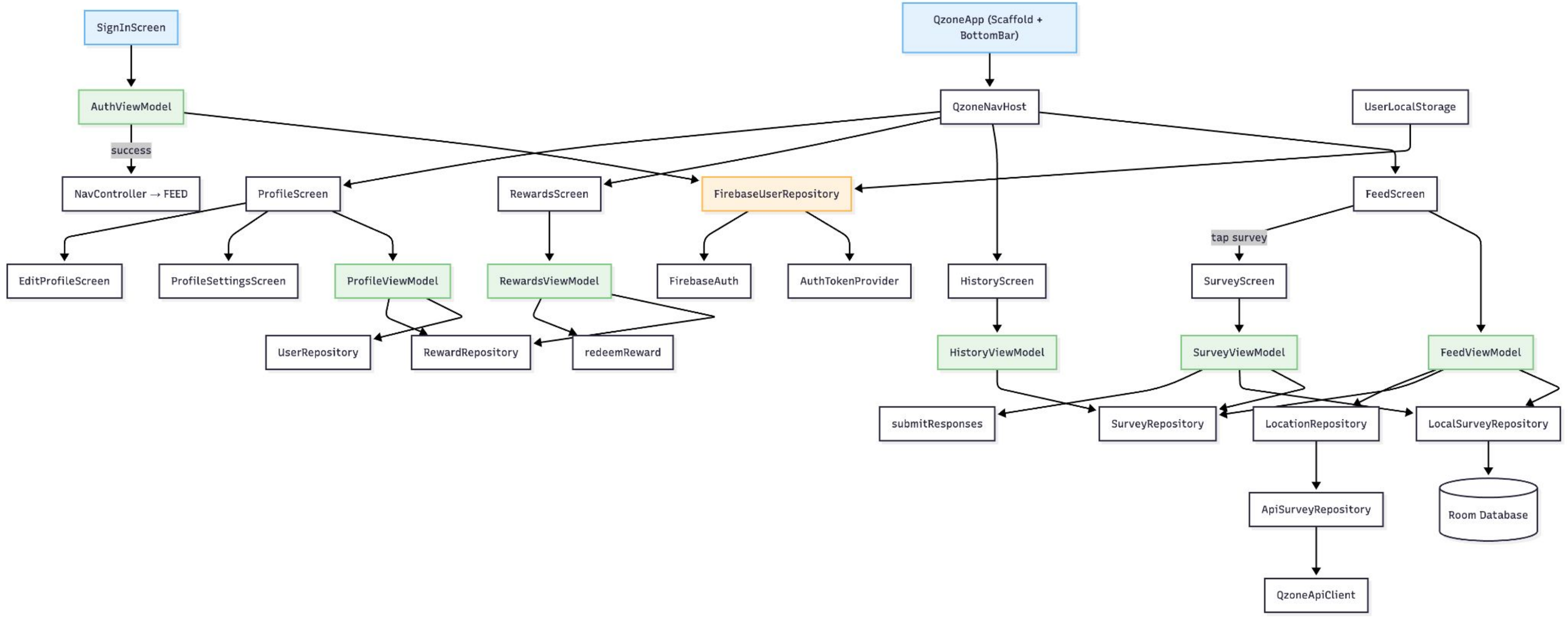
Live Demo


9:57
$10 McDonalds
150 pts
$10 voucher for any menu purchase
Expires Valid until February 2026
Tap to view details
Redeem
KFC
KFC 25% OFF
120 pts
Get 25% off your next KFC meal
Expires Valid until March 2026
Home
History
Rewards
Profile
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

Architecture Overview



Crash handling

1. Exception swallowing: Use try/catch/expect to throw an exception to handle I/O errors
2. Null safety: The methods return a nullable SharedPreferences; if the initialization routine hasn’t been called, operations safely return null (no NullPointerException)
3. Firebase: Firebase parts will rethrows the CancellationException to prevent the coroutine from becoming uncancellable due to catching a general Exception.

Testing/debugging approach

1. We use user local storage combined with firebase repository to debug.（Frontend + backend log)

Stretch goals in progress or descoped

What we completed:

1. shake to refresh

2. In app reward redemption

3. Active Search and Filtering

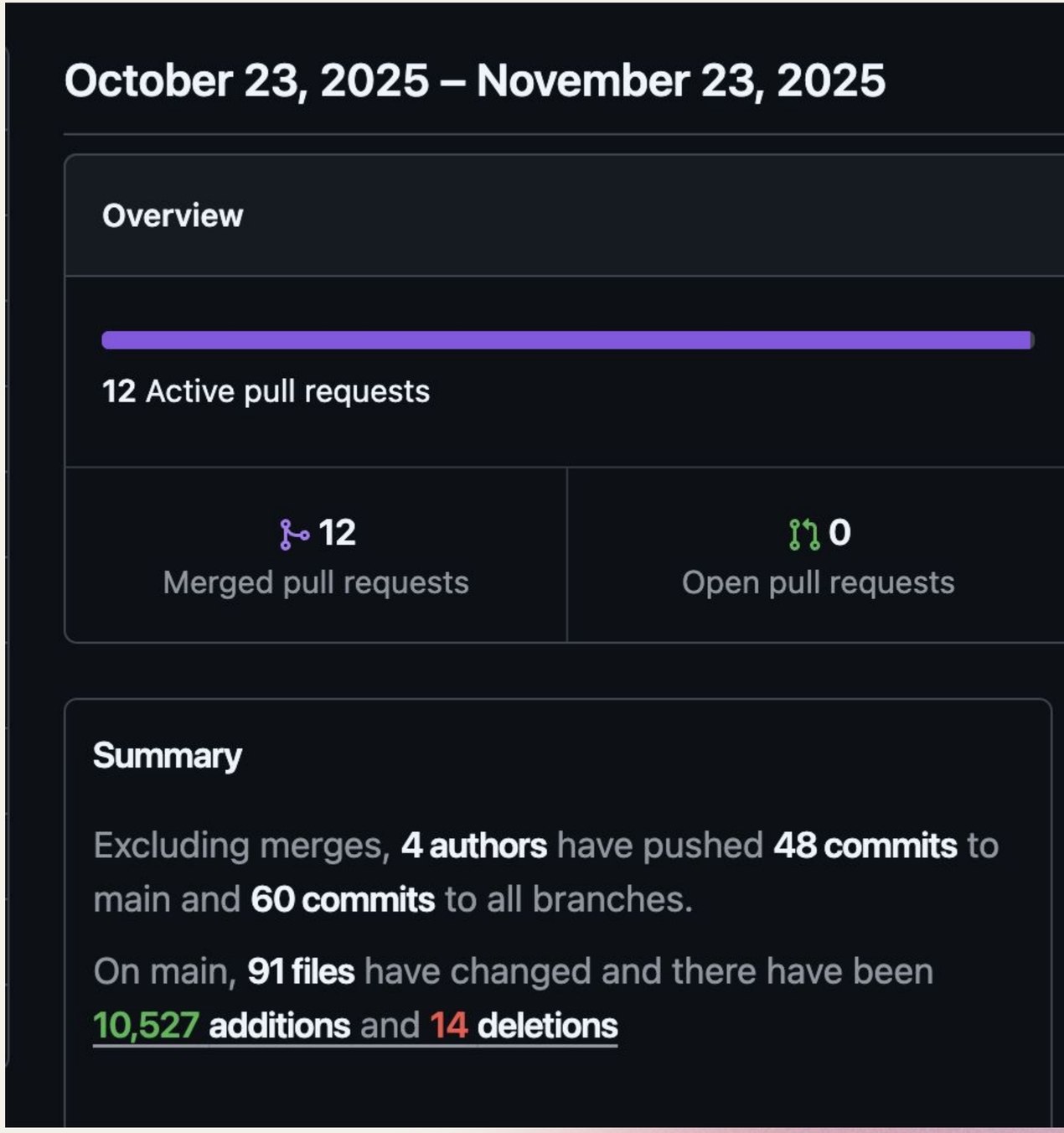
What is in progressing:

1. Interactive Map View

2. Advanced Accessibility Feature

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,