

Udacity Android Capstone Stage 1 Wireframe

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Dallas Spotter

Description

- Get reports of the latest real-time crime incidents for the City of Dallas.
- Explore the most recent incidents and plot them in an instant.

Intended User

Concerned and curious citizens of Dallas.

Law Enforcement (reference only)

Civil & Social workers/planners

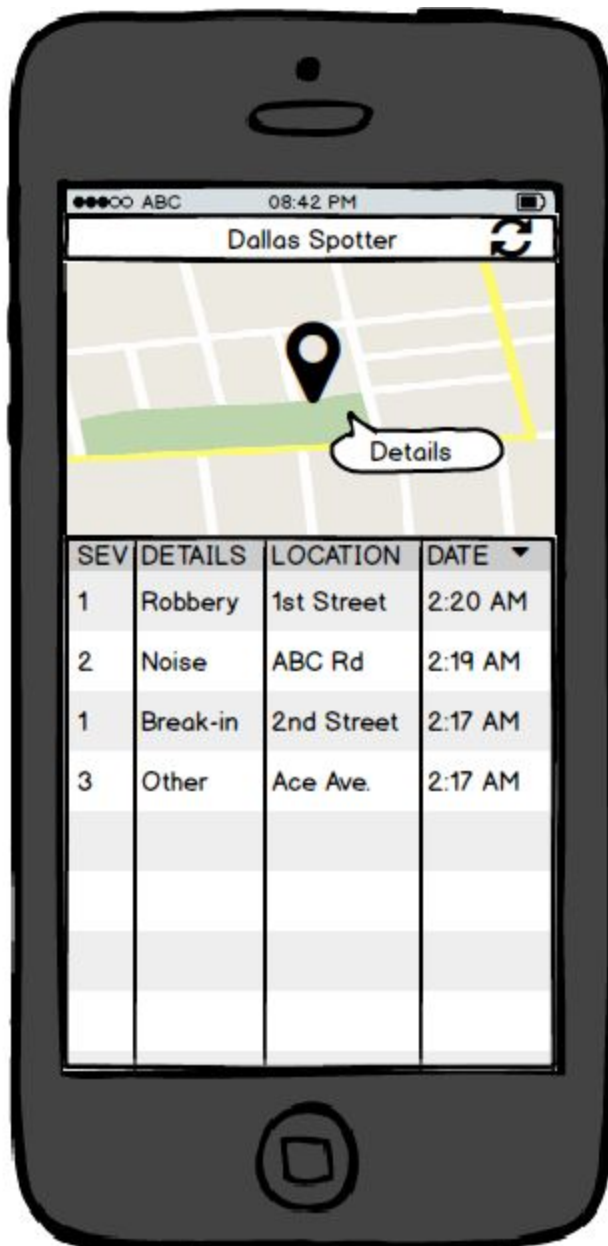
Features

List the main features of your app. For example:

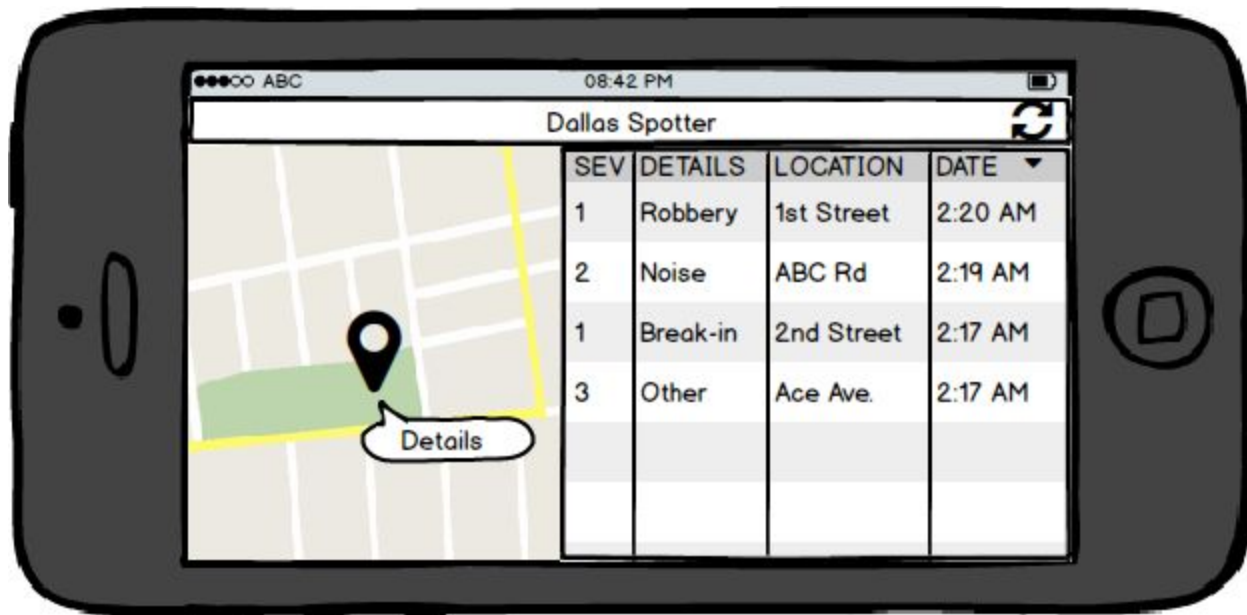
- Latest reported incidents by Dallas law enforcement
- Pin location of incident on Google maps
- Sort by location, severity, date, etc.
- Swipe to pull latest incidents as recorded by law enforcement

User Interface Mocks

Screen 1



Screen 2



Key Considerations

How will your app handle data persistence?

Content Provider will store queried results in SQLite database.

Describe any corner cases in the UX.

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Describe any libraries you'll be using and share your reasoning for including them.

OkHTTP3 will be used for simplified asynchronous calls in the sync adapter and other fragment activities.

GSON will be used for easy JSON parsing and converting to java libraries.

Describe how you will implement Google Play Services.

Google Maps will be used in a fragment to display the currently selected incident.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

Task 1: Project Setup

- Configure appropriate libraries
- Create folders for model, ui, data providers, and syncing

Task 2: Build UI layout for Each Activity and Fragment

- Build UI for MainActivity
- Build UI for Swipe to Refresh List Fragment
- Build UI for Google Maps Fragment

Task 3: Build Data Model

- Create model for Google Maps Location results
- Create model for Dallas Open Data Api call results

Task 4: Build Data Provider

- Build Active Calls Contract
- Build Active Calls SQLiteOpenHelper
- Build Active Calls Content Provider

Task 5: Build Service & Sync Adapter

- Build Generic Service with boilerplate code
- Build Sync Service with boilerplate code
- Build Sync Adapter to query Dallas Open Data Api

Task 5: Build Activity & Fragment Code

- Build Main Activity
- Build Active Calls List Fragment

- Build Active Calls Map Fragment

Submission Instructions

1. After you've completed all the sections, download this document as a PDF [File → Download as PDF]
2. Create a new GitHub repo for the capstone. Name it "**Capstone Project**"
3. Add this document to your repo. Make sure it's named "**Capstone_Stage1.pdf**"