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Austin Craft Beer Guide

Description

The craft beer industry is very popular in Austin, Texas. This app will provide easy access to information about some of the most popular breweries in Austin, where they are located, tour and taproom hours, and a short list, and brief description, of the most popular beers offered at each brewery.

Intended User

This app is ideal for craft beer aficionados who want to learn more about Austin breweries and their respective beers.
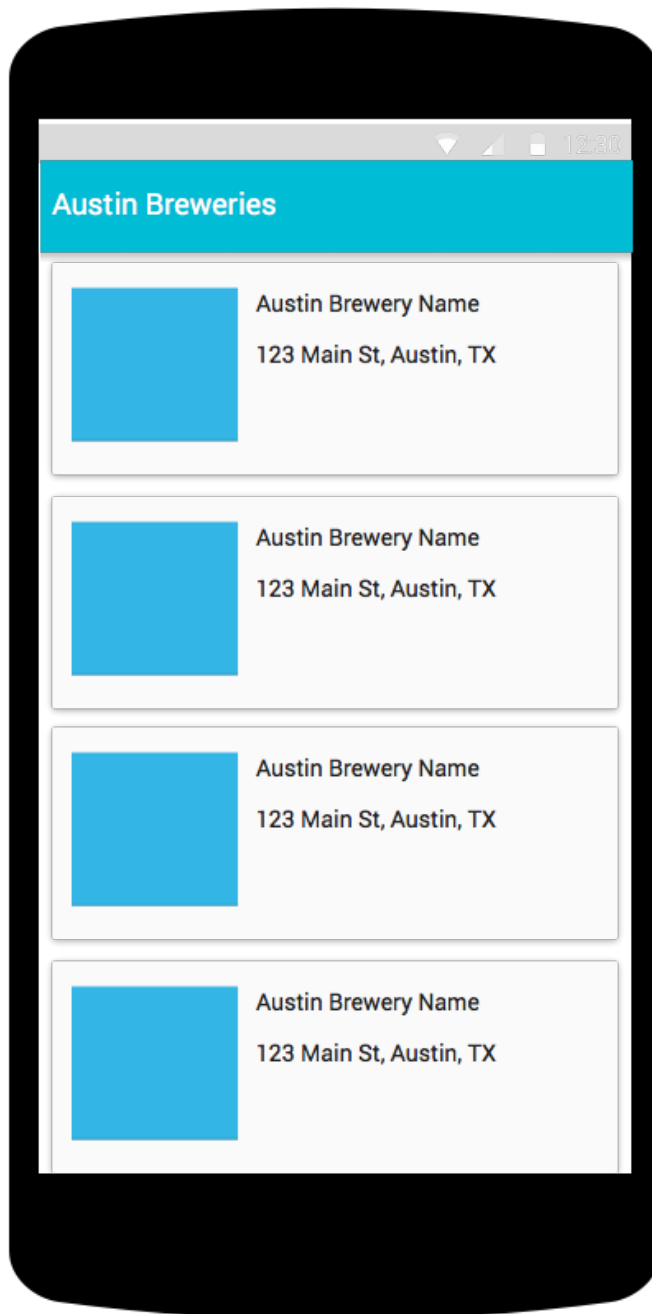
Features

- Retrieve up-to-date brewery and beer list at app startup.
- List Austin breweries
- Provide name, location, phone and hours for each brewery.
- Provide a short list of beers offered at each brewery.
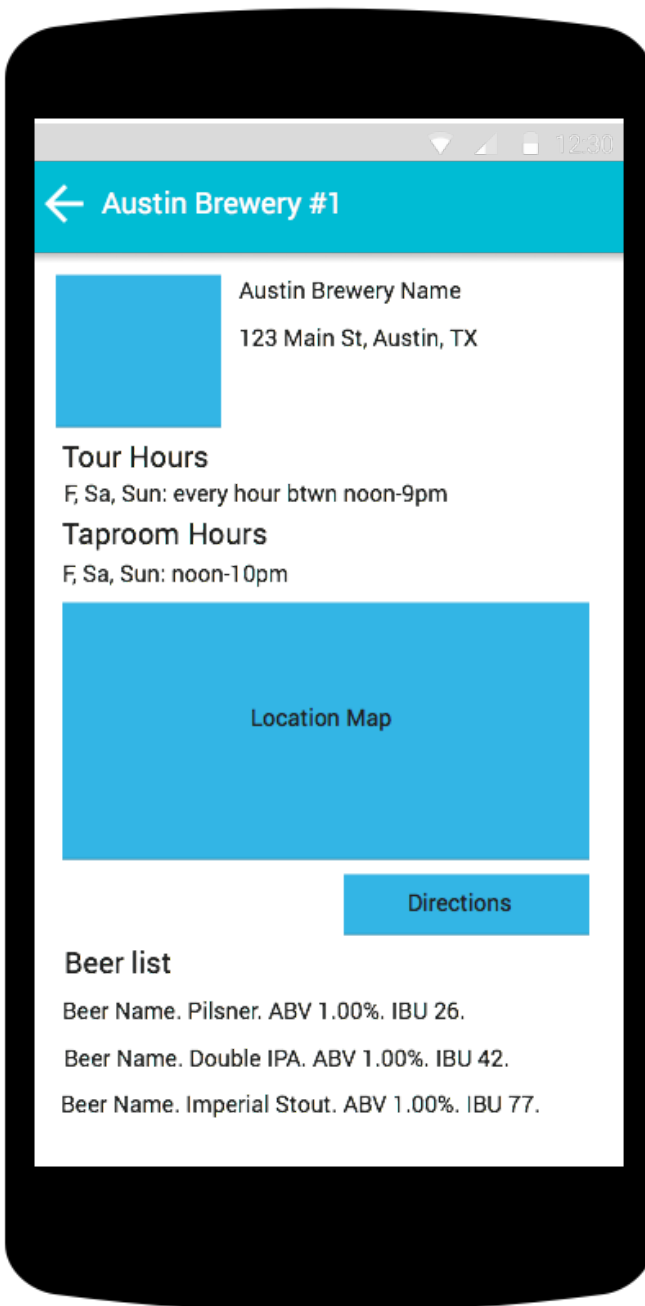
User Interface Mocks

These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

Screen 1

Austin Breweries

Austin Brewery Name

123 Main St, Austin, TX

Austin Brewery Name

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Initial App Screen. Show a list of Austin breweries.

Screen 2

Brewery Detail View. Show name, address, map, hours, and beer list.

Widget

Widget will update daily and will randomly highlight one of the downloaded breweries.

Key Considerations

How will your app handle data persistence?

Data will be retrieved via a remote URL. Data will be stored and retrieved via a Content Provider.

Describe any corner cases in the UX.

Navigation is the standard master/detail application flow. As such, there are really no corner cases for this phase of the application.

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

- Picasso for remote image loading.
- Retrofit for remote data requests.
- RxJava to simplify async network data processing.
- Butterknife for layout view binding.
- Timber for log statement management.
- GSON for JSON object parsing.
- Dagger, if necessary, for dependency injection.

Describe how you will implement Google Play Services.

Google Maps to show brewery location on details page.
Google Firebase to log app usage statistics.

Next Steps: Required Tasks

Task 1: Project Setup

Create Github repository for project.
Add required libraries to gradle build file.

Task 2: Create JSON data model and Content Provider

Create JSON data model
  - Define required fields for breweries (name, location, hours)
  - Defined required fields for beers offered (name, type, details)
  - Deploy JSON data file to Github (an API could be utilized in the future).
Create a Content Provider to store and query data.

Task 3: Add network request to retrieve data at startup.

Retrieve JSON data model from remote server. Only needs to be done once at startup because data is not expected to change frequently. This should be done using an IntentService.
Parse JSON data and store in Content Provider.

Task 4: Implement UI for Each Activity and Fragment

Create list of breweries using Content Provider Cursor.
Create brewery information page.
  - Add Google Map of brewery location.

Task 5: Add Analytic tracking tags

Add analytic tracking information to track app usage.
  - Record brewery detail page views.

Add as many tasks as you need to complete your app.

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**"