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GitHub Username: mjhassanpur

Gittrend

Description

You've never used Dagger? Never heard of Glide? Really? We all know that feeling. When your programming-obsessed geek of a friend goes on and on about the latest and greatest libraries he/she is using for their newest project. You're just left standing there, saying to yourself "What in the heck are they talking about?". No worries though, we've got you covered. With the Gittrend app, you can keep up with all the newest trending repositories on GitHub. So, the next time you see your friend, you can return the favor and ask "Really? You don't know what RxJava is? Let me tell you all about it...".

Intended User

This app is intended for GitHub users who want to keep up with trending repositories.

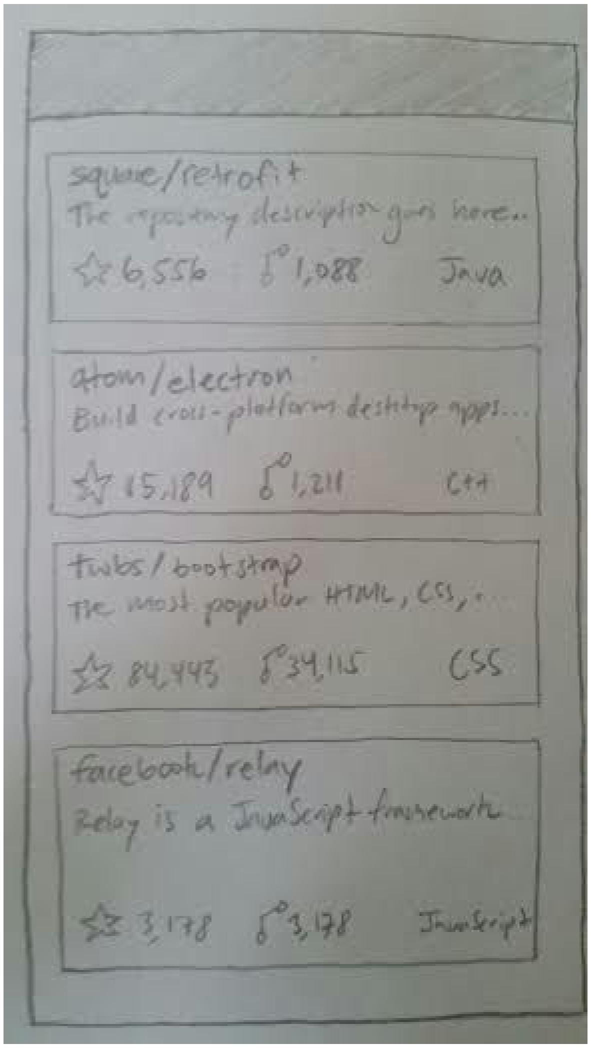
Features

- Finds newest trending repositories
- Provides repository details (e.g. stars, forks, contributors, commits)
- Saves data locally for offline access
- Share repository URLs
- Material Design UI/UX

User Interface Mocks

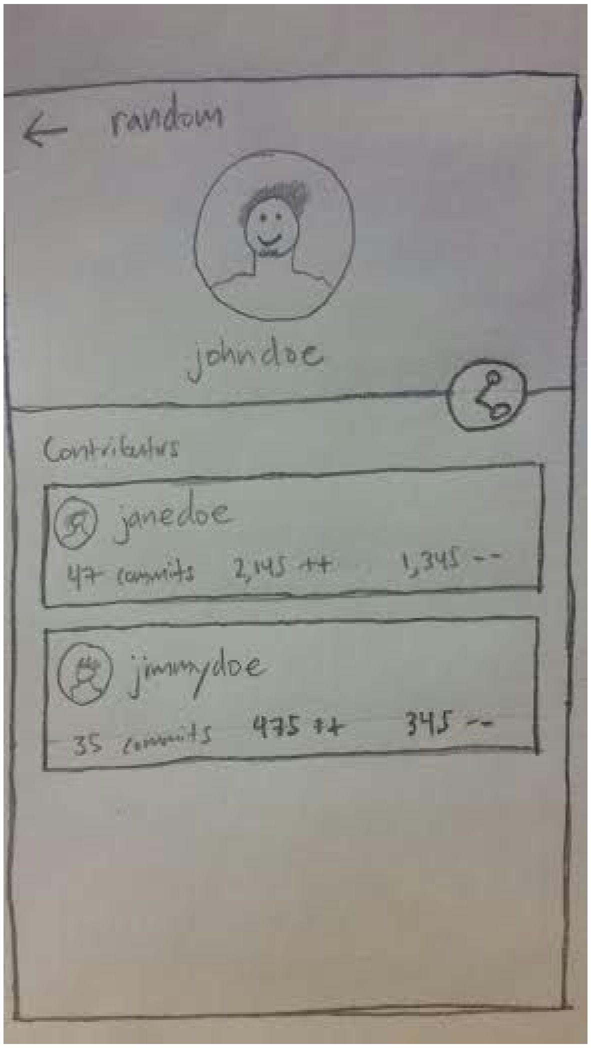
These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

Main Screen


square/retrofit
The repository description goes here..
6,556
1,088
Java
atom/electron
Build cross-platform desktop apps...
15,189
1,211
C++
twbs/bootstrap
The most popular HTML, CSS, ..
84,443
34,115
CSS
facebook/relay
Relay is a JavaScript framework
3,178
3,178
JavaScript

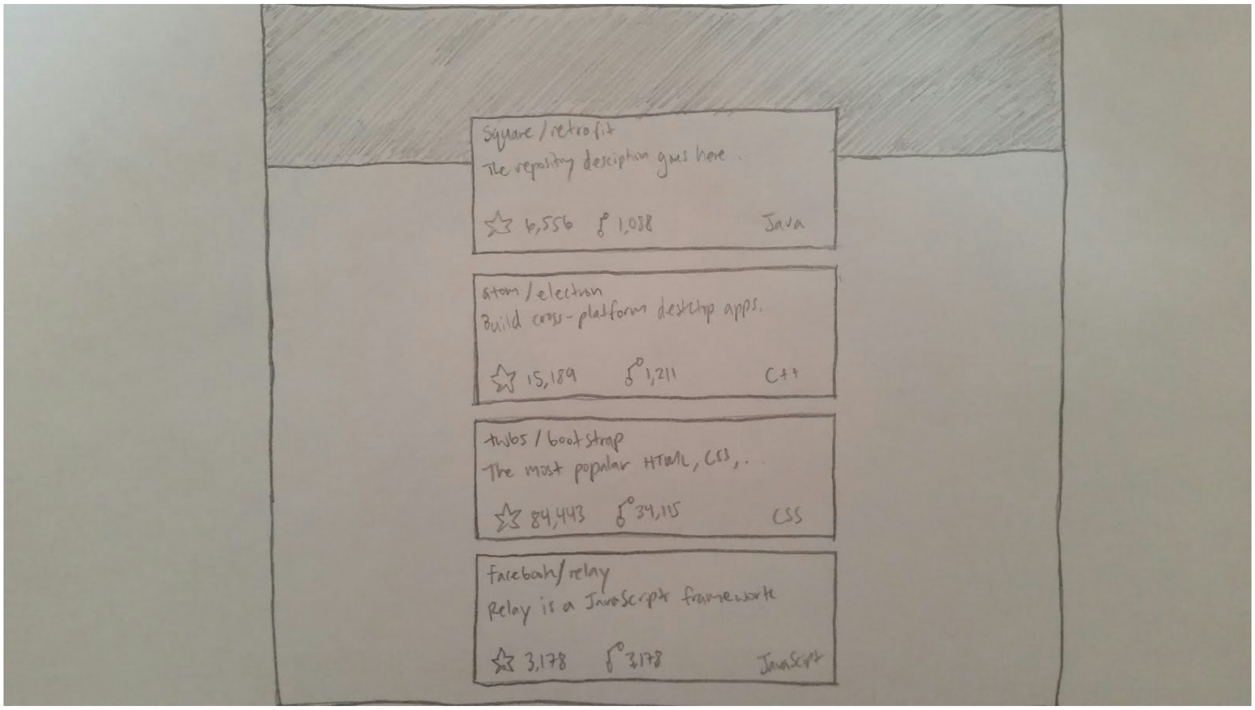
A list of trending repositories

Details Screen



Detailed information for a given repository

Main Screen (Tablet)


Square / retrofit
The repository description goes here
6,556
1,038
Java
atom / electron
Build cross-platform desktop apps.
15,189
1,211
C++
twbs / bootstrap
The most popular HTML, CSS, ..
84,443
34,115
CSS
facebook/ relay
Relay is a JavaScript framework
3,178
3,178
JavaScript

A list of trending repositories on large screen devices

Key Considerations

How will your app handle data persistence?

With a Content Provider and SQLite database.

Describe any corner cases in the UX.

The UX is fairly simple and straightforward.

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

- Retrofit for making HTTP requests to the GitHub API
- RxJava for chaining calls to different API endpoints
- Glide for handling the loading and caching of images.
- Support Design Library for Material Design components

- Google Analytics SDK for measuring user activity
- Google Mobile Ads SDK for displaying ads

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

- Create new Android Studio Project
- Modify build.gradle to add necessary dependencies
- Setup project structure

Task 2: Implement UI

- Build UI for MainActivity
- Build UI for DetailsActivity

Task 3: Create POJOs

- Create necessary POJOs for consuming GitHub API

Task 4: Networking

- Create REST interface
- Create SyncAdapter
- Create SyncService

Task 5: Database Setup

- Create Content Provider
- Create Database Contract
- Create SQLite database

Task 6: Retrieve Data

- Use Loader to move data to views

Task 7: Google Admob and Analytics

- Use Admob to display test ads
- Deploy an Analytics instance

Task 8: Sharing

- Add sharing functionality

Task 9: Final Testing and Polish

- Final UI changes and cleanup
- Thorough final testing phase ensuring all unit tests pass
- Ad-hoc testing

Task 10: Submit

- Submit the final project