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Submission Instructions
1. After you've completed all the sections, download this document as a PDF [File → Download as PDF]
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GitHub Username: BenGoBlue05

Dollar Scholar

Description

Dollar Scholar gives students information about college info worth knowing. Students can search for the colleges that produce the highest earners as well as see the cost of tuition and average debt of students who took out loans.

Intended User

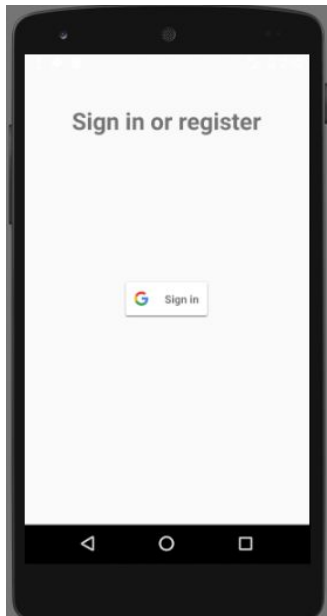High school students searching for colleges and exploring career options.

Features

- Main page
  - Provides ranked list of colleges by highest earning graduates
  - Filter by public colleges and colleges in a particular state
- College Details pages
  - Cost of tuition
  - Debt info
  - Income details
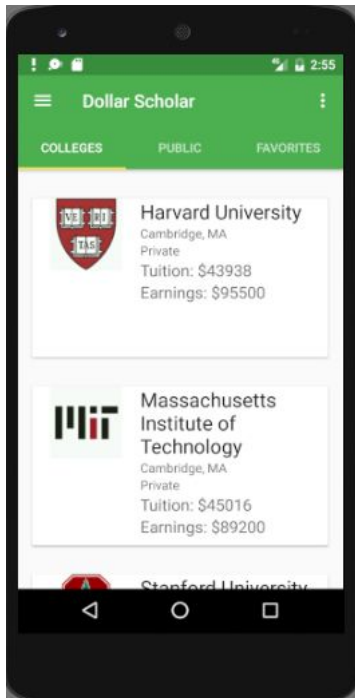 - Admissions stats
  - Graduation rates

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.
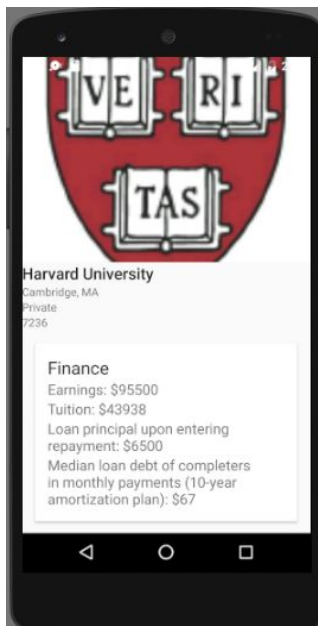
Screen 1 - Sign-in

Screen 2 - Main

Screen 3 - Detail

Sign-in screen logs in and authenticates users while storing basic info in firebase.

Main screen ranks colleges by the highest paying earners and allows the user to filter the results.

Detail screen provides more detailed info related to finance, admissions, and graduation.

Key Considerations

How will your app handle data persistence?

Describe how your app with handle data. (For example, will you build a Content Provider or connect to an existing one?)

I will use an intent service to fetch data about colleges from the College Scorecard website and store the data in a SQLite database. I will use a content provider to retrieve the data and then load it to ui with a cursor loader. I will use Firebase to collect user info including the colleges they marked as their favorites

Describe any corner cases in the UX.

For example, how does the user return to a Now Playing screen in a media player if they hit the back button?

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

Glide - load and display images
Butterknife - Bind view references to views
Stetho - view SQLite database
OkHTTP - networking
Firebase - auth, database, analytics

Describe how you will implement Google Play Services.

I will use the Google Services and Firebase for sign-in (with Google account), authentication, and analytics.

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 libraries
- Connect with Firebase
- Share on Github

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainActivity
- Build UI for Sign-in Activity
- Build UI for Detail Activity

Task 3: Create Database

- Contract
- Db Helper
- Content Provider

Task 4: Display data on UI

- Fetch network info with Okhttp lib
- Put data in db using content provider bulk-insert method
- Create recyclerview adapter
- Load data onto ui with cursor loader
- Create methods for sorting data to be displayed

Task 5: Set-up analytics

- Use Firebase Analytics to track relevant data

Task 6: Implement a widget:

- Add widget displaying the colleges that the user marked as their favorites

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