

Supplify - Project Report

Members

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Project Goal - The purpose of this project.

Ultimately, the goal of application is to give supplement users a reliable source for supplement information. With the vast sea information on the internet, it gets ambiguous as to what supplement does what, if they really work, how effective they are, etc. Speaking from experience (as an avid user of supplements), I often find myself skimming through endless Chrome tabs trying to find the truth on a single supplement.

Supplify fixes this problem. By scraping supplement information from multiple websites and consolidating it into a concise view, there's no longer a question of what does what. All the research is been done for you and it makes supplement research simpler than ever.

Disclaimer: It should probably be noted that we were unable to accomplish everything we set out to do. Our original plan was to use a Text Analytics API to intelligently take information from multiple websites, simplify it, then condense it all into a single page. However, due to a bunch of setbacks... including troubles implementing a database, the purging of a full day of group programming, and just keeping up with the things getting thrown at us... we were unable to implement a Text Analytics API. As it stands, our application calls the Scraper API (written by Yusuf) and receives information from a single website called [Nootriment](#). In the end, despite not finishing the entirety of it, we still have a working application that implements an API and a database, and we're all proud of our work.

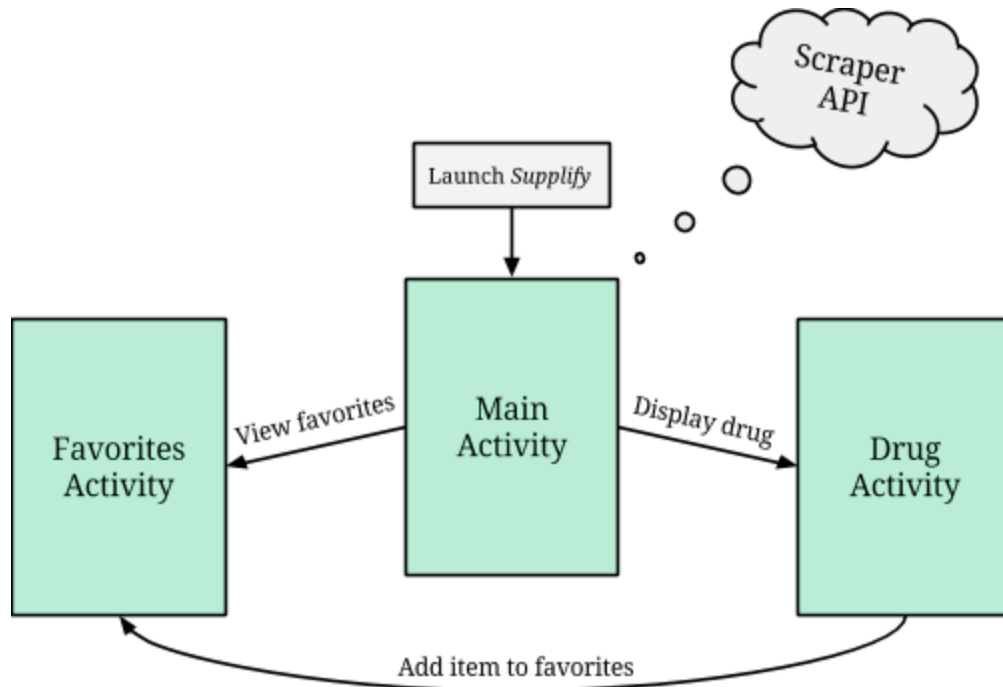
Project Features - Abstract from the user stories.

The typical user story is quite simple. Let's say I heard about a cool new supplement called 'Aniracetam' and wanted to find more information on it. All I would have to do is open the *Supplify* application, type in 'Aniracetam' into the main search bar, and read the information on it.

Now let's say that during my research spree, I'm super impressed by the drug and think to myself, "Wow this is great! I'm definitely coming to this later." What we've for this implemented is a *Favorites* feature to save the supplement. So that on the main search screen, you can click on the button in the upper right corner and view all the supplements that you've favorited. This feature has dual functionality 1) It makes your research collection easily accessible and 2) It makes the load time for your saved

supplements much much faster (because instead of scraping the website for it, you're pulling it from a local database).

Project Design - Visual diagram of project components/flow.



File structure - What does each file do and who wrote that file.

'manifests' Directory:

- AndroidManifest.xml
 - Purpose: Contains essential information about our application, which the system must have before running any code.
 - Authors: Yusuf, Dan, George

'java' Directory:

- DbHelper.java
 - Purpose: Contains function to manage our database.
 - Authors: Yusuf, Dan, George
- Drug.java
 - Purpose:
 - Authors: Yusuf, Dan, George
- DrugActivity.java
 - Purpose: Activity to display details on a specific supplement.
 - Authors: Yusuf, Dan, George

- DrugRepo.java
 - Purpose: Contains methods for the object 'Drug'.
 - Authors: Yusuf
- HistoryActivity.java
 - Purpose: Activity to handle the list of favorites supplement.
 - Authors: Yusuf, Dan, George
- MainActivity.java
 - Purpose: This is the first activity to be displayed on the start of the application. It includes a search bar to take you to the supplement's details and a favorites button on the upper-right corner to take your favorite supplements.
 - Authors: Yusuf, Dan, George
- SupplifyScraper.java
 - Purpose: API to scrap Nootriment and pass information on a given drug.
 - Authors: Yusuf
- DrugAdapter.java
 - Purpose: Text Adapter used to display the drug names on a listview in HistoryActivity.java querying from database.
 - Authors: Dan

'layout' Directory:

- activity_history.xml
 - Purpose: Provides the view for our HistoryActivity.
 - Authors: George
- activity_main.xml
 - Purpose: Provides the view for our MainActivity.
 - Authors: Dan
- activity_supplement.xml
 - Purpose: Provides the view for our DrugActivity.
 - Authors: Dan
- list_item.xml
 - Purpose: Provides the view for each list item in our History view.
 - Authors: George

'menu' Directory:

- Menu_main.xml
 - Purpose:
 - Authors: George

'values' Directory:

- colors.xml
 - Purpose:

- Authors: Yusuf, Dan
- strings.xml
 - Purpose:
 - Authors: Yusuf, Dan, George
- styles.xml
 - Purpose:
 - Authors: Yusuf, Dan