

My FavCoffee App

Team More Cowbell:

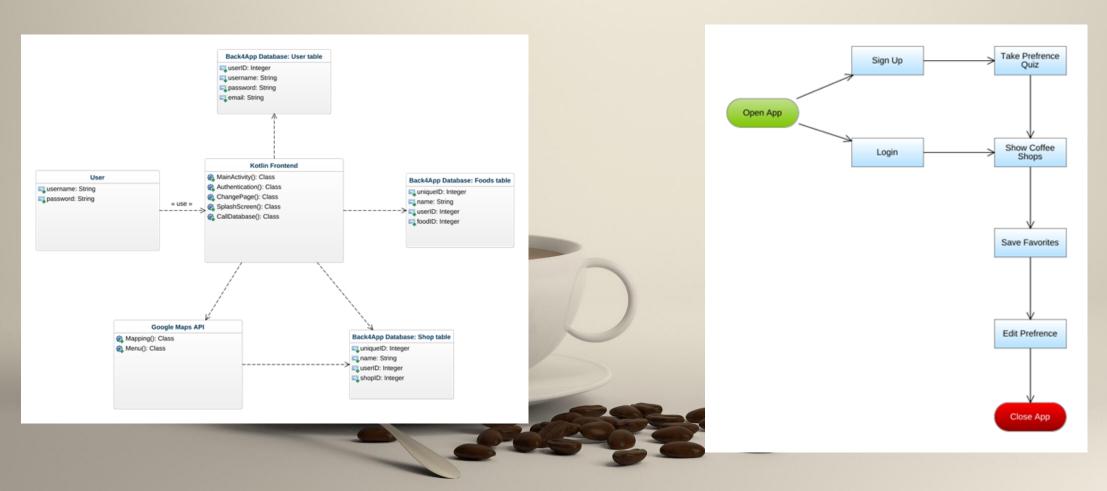
Kyu, John, Mario, Luiza, Kyle

OUR BIG IDEA

My FavCoffee's mission is to makes it possible to find a new coffee shop place that the user has higher chances of liking because it matches their personal preferences and it's close to the user's location! Also, the user has the option to save their favorite ones, and have their own favorite list of coffee shops, independently of their location.

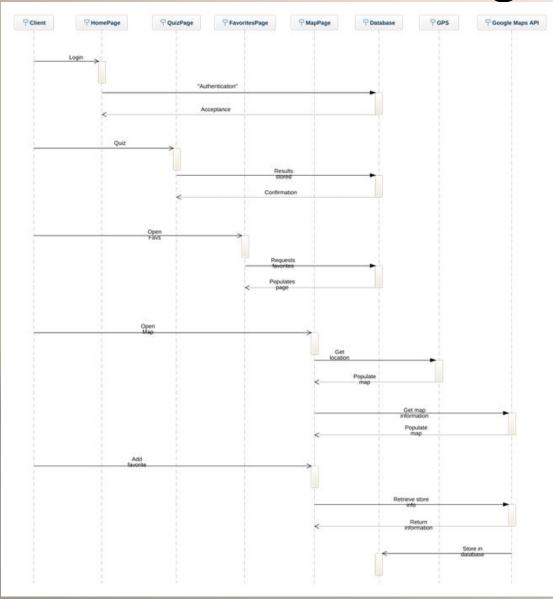


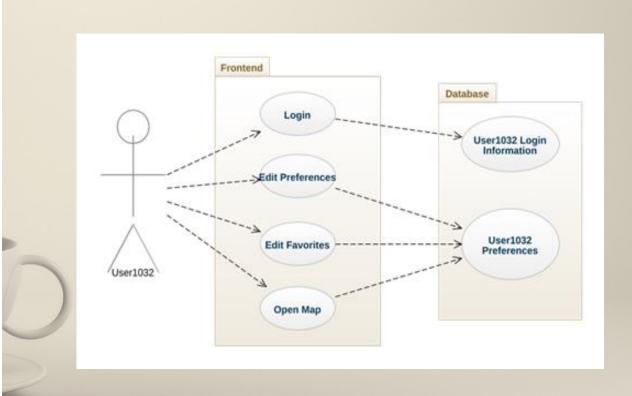
Design Documents

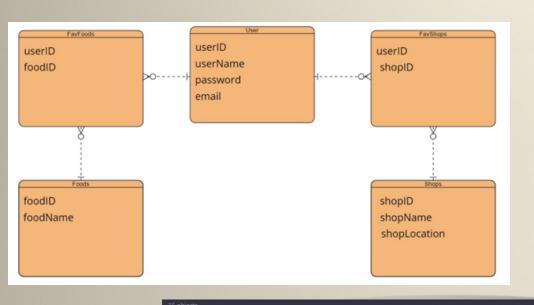


Class Diagram Activity Diagram

Design Documents







Database

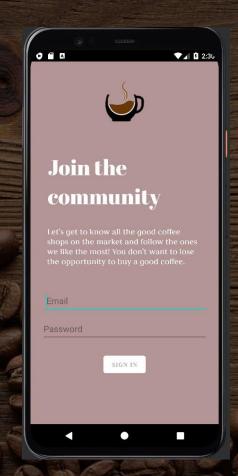
- Parse database stored on a Back4App server
 - Extremely simple implementation requiring little to no upkeep
- Basic structure involves storing information on three objects
 - User, Shop, Food
- User-specific preferences are saved as tuples in the relevant tables
- Public Read and Write enat ① Row ⊕ Column MyFavCoffee Shop longitude latitude Capitol Coffee Works 47.6156928534968 -122.32064786604806 Cascade Coffee Works 47.62298866949087 -122.33523547659989 3 Pegasus Coffee Bar 47.609796628653754 -122.33627420053199 4 Analog Coffee 47.6223443703369 -122.32574978042835 D 5 Elm Coffee Roasters -122.33134633216545 Better Buzz Coffee 32.75203981660922 -117.15767389578889 Dark Horse Coffee Roast... 32.769073918813696 -117.1219683295316 Seven Seas Roasting Com., 32.73355846223757 -117.1288347845811 Communal Coffee -117,14231814239241 32.763765406884495 The Forum Coffee House 32.831998504844876 -117.18406459139895 11 5 Stones Coffee Co. 47.58696894748818 -122.14311717468456 12 Cypress Coffee Company 47.58349527874228 -122.14003040816425 13 14 -122.17898864841133 Copper Kettle Coffee Bar 47.610708765945525 O 15 Woods Coffee 47.617545478996725 -122.18722706839905

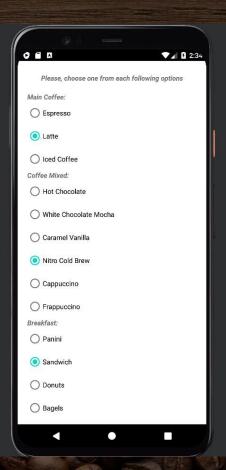
 Here you can see the favShop table pairing the userId with the shopId, indicating this user has favorited Capitol Coffee Works



User Interface Design





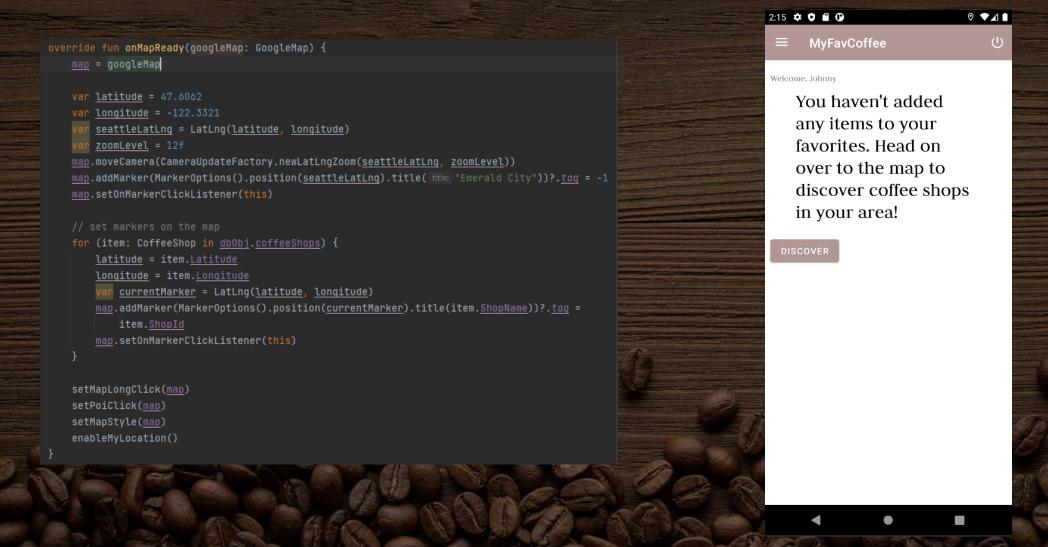


Splash screen

Login page

User Quiz page

Integrating the GPS sensor and the Places API



	Pixel_4_API_30
Results	
activityLoginTest	
✓ LoginTitleRender_ShouldBePresent	

Testing

fun d_PreferenceQuizSubmission_ShouldDirectUserToShopActivity() {

```
val shouldNotBeSelectedArray = arrayOf<Int>(R.id.Bagels, R.id.donuts,
   onView(withId(shouldBeSelectedArray[i])).perform(click())
for (i in shouldBeSelectedArray.indices) {
   onView(withId(shouldBeSelectedArray[i]))
        .check(matches(isChecked()))
for (i in shouldNotBeSelectedArray.indices) {
   onView(withId(shouldNotBeSelectedArray[i]))
        .check(matches(isNotChecked()))
onView(withId(R.id.btnSubmit))
   .perform(scrollTo())
    .perform(click())
Thread.sleep( millis: 5000)
    .check(matches(isDisplayed()))
```



Challenges



- Fragments vs. Activities and navigating between the two
 - Solution? Make everything an Activity
 - PreferenceQuiz in particular had to be re-made
- Accessing data from the database on multiple pages
 - Solution? John created a dbHelper object to easily read current state of database, cutting down on unnecessary db interaction
- Complexity of a real Login method for the application
 - Solution? Stub the login process

Thank You!

Questions?

