CMPE 277-Assignment2

TOPIC-6

**Team:**

|  |  |
| --- | --- |
| Priyanka Devendran | 015231411 |

Platform: Android Application

App Name: HungryEats

App Icon:

Icon

Description automatically generated

**Github Repo:** <https://github.com/prideven/HungryEats>

**MinSdkVersion used:** 27

**Requirement:**

Use Retrofit, Moshi, livedata and binding to interact with your own backend via REST API or WebSocket.

**Implementation:**

**Retrofit and Moshi:**

Add the below dependencies in the app gradle file:

* implementation 'com.squareup.retrofit2:retrofit:2.1.0'
* implementation "com.squareup.retrofit2:converter-moshi:2.4.0"

I have created an Application file to create an singleton for retrofit as shown below:

**Text

Description automatically generated**

**LiveData:**

The application utilizes Livedata which acts as the observer class to notify the active observers in case of any changes or updates observed.

Implementation:

LiveData object is created in the ViewModel:

LiveData Instance created: eatsRestaurantResponse

Graphical user interface, text, application, email

Description automatically generated

**Interaction with backend API:**

The application interacts with the doordash API to fetch the list of restaurants based on the latitude and longitude passed.

Eg API used:

<https://api.doordash.com/v2/restaurant/?lat=77.422740&lng=-122.139956>

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Screenshot of the application:

Company name

Description automatically generated

Another API used is for fetching the details of the restaurant using API, once the restaurant is clicked the restaurant id is passed to fetch the restaurant details.

Eg API

<https://api.doordash.com/v2/restaurant/30>

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Screenshot of the application:

Graphical user interface, text, application

Description automatically generated

**Thank You.**