CMPE 277-Assignment2

TOPIC-6

**Team:**

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Platform: Android Application

App Name: HungryEats

App Icon:

Icon

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**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:

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**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

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**Binding:**

U declare the xml layout structure within <layout> which enables type safety while accessing any of the views.

**Screenshots:**

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**The addToCartBinding object is Utilized in the fragment:**

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**Interaction with backend API:**

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

API 1 used:

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

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Graphical user interface, text, application, email

Description automatically generated

Screenshot of the application:

Company name

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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.

API 2:

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

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Graphical user interface, text, application, email

Description automatically generated

Screenshot of the application:

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**Thank You.**