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Android Development

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<div align="center">Term Project Report</div>

**Android Application**

**Name**: NYC for Dummies

**Application Description**:

This app is designed to be a helping hand to tourists or even to New Yorkers looking for places to visit in NYC. The app provides places one can visit with various details about the place and giving user the option to open direction in native map app. If a user decided to visit a particular place, the primary details about the place is provided by this app.

The app opens to a welcome screen, MainActivity, which has some text and button. The button, when clicked will lead to the primary screen, MapActivity.

MapActivity screen will handle the primary user interaction. It displays a Map View zoomed into current location of the user and a marked placed on the location. Below the Map View, there is a List View containing list of NYC attractions. If internet connection is unavailble in the device, when list items are clicked, it leads to a PlaceActivity screen containing the details about the place. Otherwise, when items on the list are clicked, a marker corresponding to the location of the place and a unique icon is placed and zoomed onto the map. Users can click on the Info Window of the marker and be taken to PlaceActivity screen.

The PlaceActivity screen displays various details about the place such as, images, address and open hours. It displays a slideshow of images in the top half of the screen. Below the

slideshow view, it has details about the place. Then it has a button called About which opens a popup window of details about the place. Lastly, it has a button which launches native map app which opens the navigation from current location to the place location.

**JustCode Modules**

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| **Google Maps** | *MapActivity of the app contains a Map Fragments which creates a map. Various markers are placed on the map with listeners. The Map is also zoomed into locations.* |
| **GPS** | *The current location of the device is generated by a service called LocationService. This service works in the background to get and update current location of the user.* |
| **Launching Other apps** | *The native map app is launched using an intent in PlaceActivity with the click of a button. The map app is opened to a navigation from current location to the location of a NYC Attraction.* |