**Humber College**

* **SAHIL PATEL (N01390758)**

**Information Technology Solutions, Humber College**

**Android App Development 1**

**To Ammar-Al-Quaraghuli**

**Introduction**

#### **Project Summary:**

If we consider two wheeler, only two people share the charges of ride and If we consider four wheeler the charge of the fuel will be higher. So we decide that we will make this application and from this application, we can share our ride with even college staff. And this make the less charges and consume the traffic, time and the decrease the use of fuel and therefore the pollution will be under control.

#### Purpose**:**

* + - To control the increasing numbers of vehicle.
    - To reduce the traffic problems
    - It is good for environment.
    - Decrease the use of petrol/diesel.
    - And easy to transport from another place to college.

#### **Scope:**

* + - This project is going to be an environment friendly. This application has many scope because in the college, If we provide this application students can share their vehicles.
    - And If they share their ride the numbers of vehicle will be decrease therefore the traffic will be decrease therefore the traffic will be decrease. and the usage of fuel will be decrease and pollution in the air will be decrease.
    - So, this is the particular echo friendly application and this application provide the shortest path so time will be consume.

#### **4 Technology and Literature Review:**

* + Firebase to store data, Theatofdev to crop images, Zelory to compress images, Java language, Squareup piccasso to load the images.
  + Tools used are Firebase, Android Studio.

# **Central Idea to create this app:**

* Adapts with user’s location, schedule and personal preferences.
* Follows motto of WSWG.
* Potential User can socialize.
* Helps user’s who cannot afford a vehicle.
* Supports environment.
* By using this people will save money.
* Save gas by sharing vehicle instead of using multiple vehicles

**System Design:**

* **Flow Chart:**

Diagram

Description automatically generated

**APP Functionality:**

* User can register for new account.
* User can able to login into its account.
* Able to connect with other users.
* Chat with other users.
* See all the users.
* Change Status and display picture.

**Look and Feel of the App:**

An individual can register itself by passing their personal information like username, email id and setting password.

A picture containing text, monitor, screenshot

Description automatically generated

**Registration:**

In Registration user can register a new account by inserting user name, email address and password to access and able to login Ride Share App.

A picture containing text, monitor, screenshot

Description automatically generated

**Features to the User:**

In User Feature user can able to see all users, can change account setting in account settings option and user can chat with other user and logout from the account.

Graphical user interface, application, Teams

Description automatically generated

**Account Setting for the User:**

In Account setting user can able to change his/her Display Image or user can also able to change his/her status.

A close-up of a cell phone

Description automatically generated with medium confidence

**Option to set a picture:**

User also have option to set a picture as per their choice.

A cell phone with a person's face on the screen

Description automatically generated with medium confidence

**Firebase Snap:**

We have used firebase database to store data of application and retrieve all necessary data in application whereever needed.

Graphical user interface, text, application, email

Description automatically generated

**Breakdown of the functionalities of the App-**

1. design
2. Registration
3. Login
4. Logout
5. Chat
6. Friends fragment
7. Database saving on every step
8. User profile
9. Images
10. Status
11. Requests
12. Chat window
13. Notification

**Challenges faced during making this app:**

1. Load the images
2. Chat window
3. Realtime data saving
4. Saving chat in database was a bit confusing.
5. Learned from youtube and github repositories for the libraries as we didn’t had enough knowledge of it.
6. We learned details about every library from github repository documentations as before we had no idea about it.
7. Libraries and framework that we have used were new to us for implementation purpose.
8. circleimageview to make images circles and many other formatting tasks assigned with designing part.

**Conclusion:**

This report has covered some of the most important topics regarding to RideShare app. It has demonstrated what we have successfully implemented in this application, key features and the main idea that strikes into our mind to make this application. have also added some key features images from our application to give a better visualization to the user through this report to give a profound knowledge what all is covered in our application.

**Results of work:**

By the tremendous hard work and resourceful knowledge on GitHub, YouTube and many different source of articles we have successfully implemented all the tasks that I have given in the project proposal in a precise way also I have learned and implemented many things that at the start I didn’t knew that could be added or would be required in a way in our app but with learning we were able to make it in our application.