**CHAPTER 1**

**INTRODUCTION**

**Aim:**

The main aim of this project is to track the real-time location of MTC buses which is undergoing a trip using an android application.

**Synopsis:**

Bus route number is given as input by the driver of a particular bus, which is posted to the JSON file hosted in the server, which will henceforth collect the latitude and longitude information of the bus in a small time-frequency regular intervals and stored. For a user to get information about the bus and the live tracking of a bus, initially the passenger location is taken as input and the user is requested to enter the start and end points of the journey. Ones the enter button is clicked the possible bus route is published and further giving ‘ok’ the live location of the bus is shown. The live location is retrieved by making a get call to the hosted API in the server, which will, in turn, return the exact latitude and longitude of the bus which the passenger must board. Since the app is linked with Google maps, The nearby bus stands can also be found by zooming in to the map.