

NETAJI SUBHAS UNIVERSITY OF TECHNOLOGY EAST CAMPUS



SOFTWARE ENGINEERING LAB FILE

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# TOURS AND TRAVEL AUTOMATION SYSTEM

## Software Requirements Specification for Tours and Travel Automation System

### INTRODUCTION

Tours and travel automation system build with modern technology can make travel planning and bookings less stressful. This system have all the facilities that one need to arrange for a safe and joyous journey. This system should allow users to book or have information about any transportation, hotels and restaurants. This system can not only be used for booking but it also has access to maps for directions and a translator and weather forecast. This system also has a emergency page for emergencies. It has all the facilities one would need for travelling. It is easy to use and understandable by users. One can access this software through app or its website.

### OBJECTIVE

- The objective of the project is to develop a system that automates the processes and activities of a tours and travel automation system.
- The purpose is to design a system using which one can perform all operations related to traveling and sight-seeing.

PLATTFORM : The Software will be launched as a web-application.

### TECHNICAL PROCESS

Following would be the languages I would use to develop my application within the stipulated time period

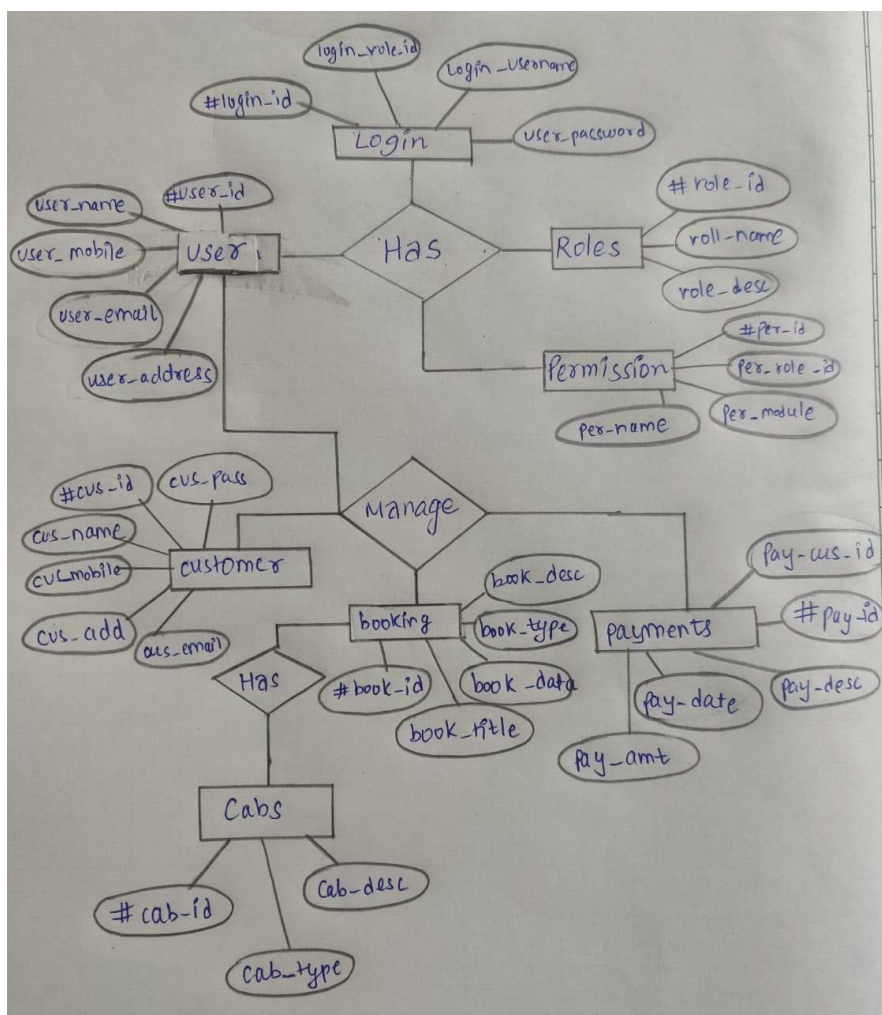
Front End- HTML, CSS, Javascript

Back End- MYSQL, Node.js

## ER DIAGRAM

The ER (entity relationship) Diagram represents the model of Tours and travel Automation system Entity. The entity-relationship diagram of Tours and Travel automation System shows all the visual instrument of databases tables and relations between Customer, Bookings, Travel agency, payments etc. It used structured data groups of Tours and travel automation system functionalities.

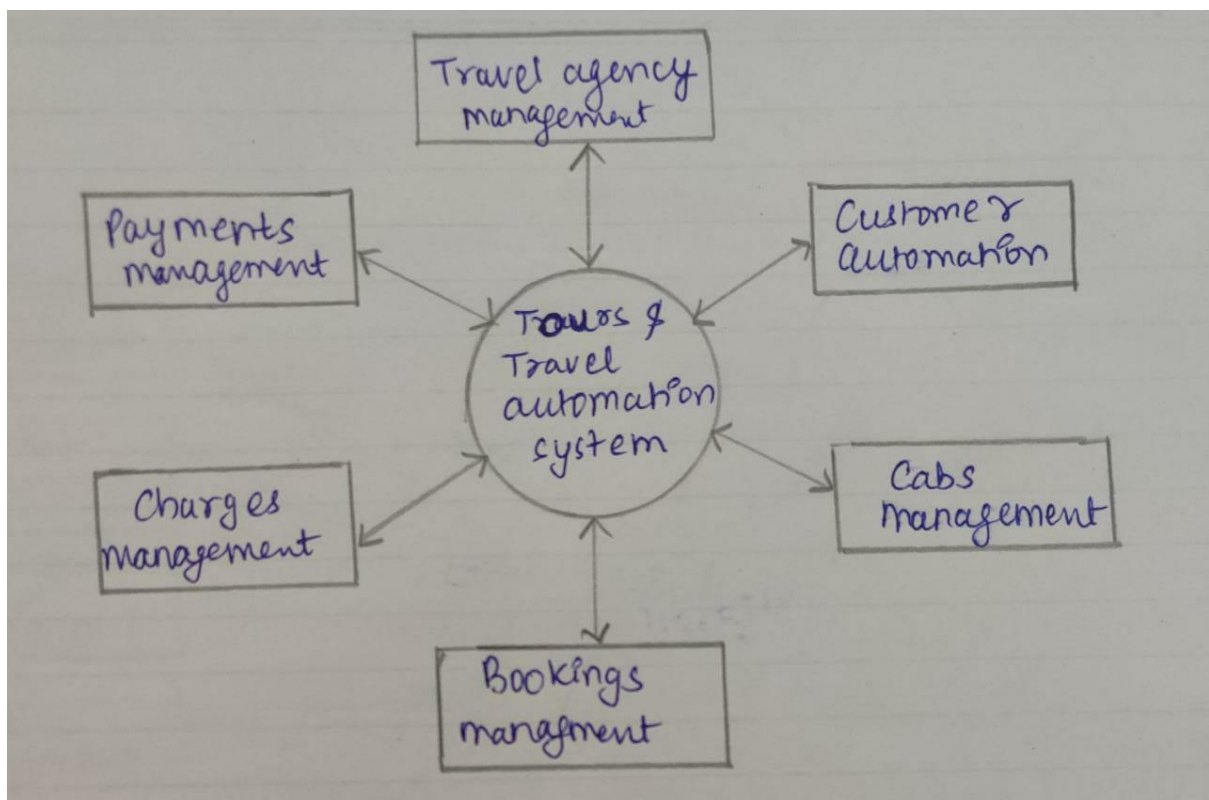
**The main entities of tours and travel automation system are Travel agency, Customer, Cabs, Bookings, Hotels and Payments.**



ER Diagram Of Tours and travel automation System

## DFD CONTEXT LEVEL 0

This is Zero level DFD of Tours and travel automation system, where we have elaborated the high level process of Travel agency . It's a basic overview of the whole Tours and travel automation system or process being analyzed. It's designed to be an outlook view of charges , payment and login showing the system as a single high-level-process , with its relationship to external entities of Travel agency, Customer and Cabs . It should be easily understood by a wide audience including travel agency, cabs, charges in zero level DFD of tours and travel automation system .



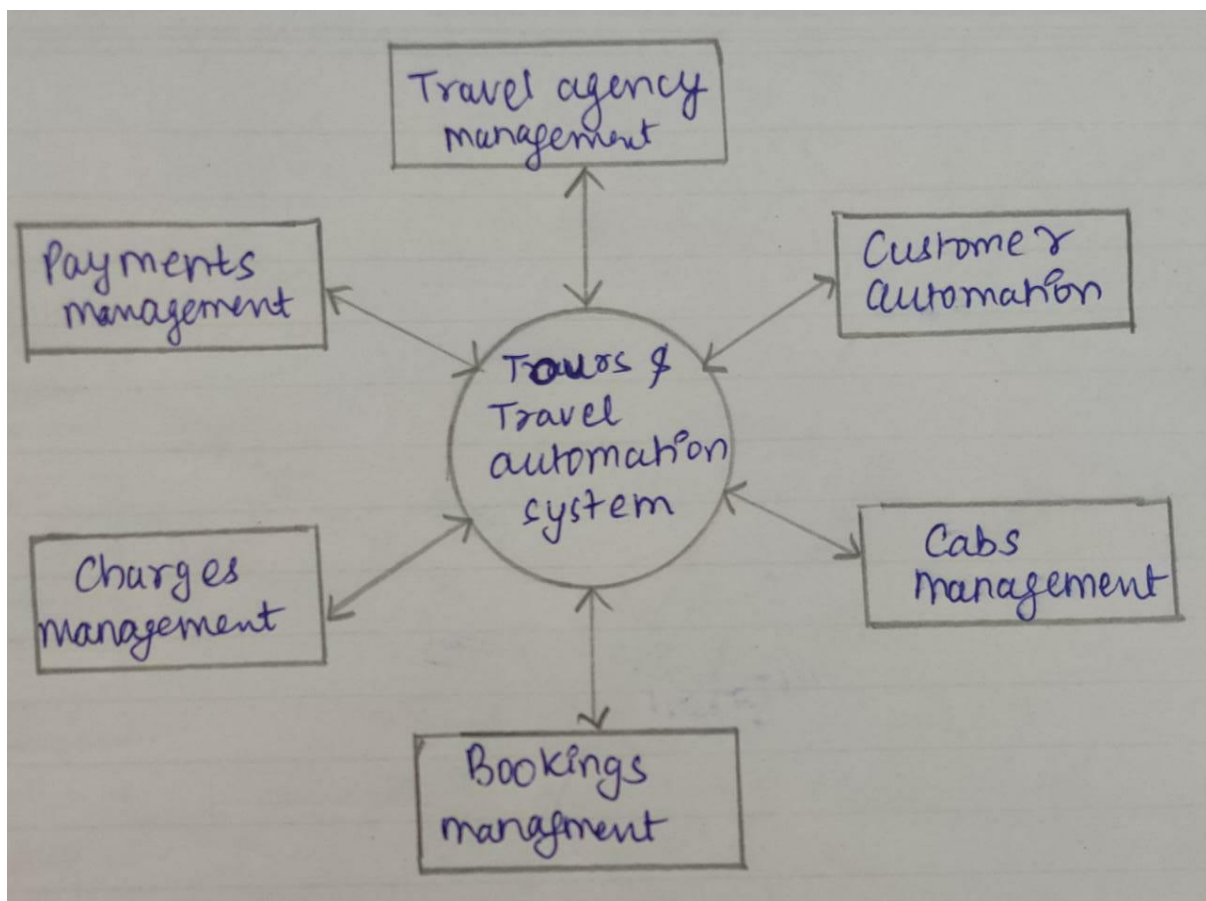
Zero Level Data Flow Diagram (0 Level DFD) Of Tours and travel automation System

## DFD CONTEXT LEVEL 1

First Level DFD (1st Level) of Travel Agency Management System shows how the system is divided into sub-systems (processes), each of which deals with one or more of the data flows to or from an external agent, and which together provide all of the functionality of the Tours and travel automation system as a whole.

It also identifies internal data stores of Login, Payment, Charges, Bookings, Cabs that must be present in order for the Travel Agency system to do its job, and shows the flow of data between the various parts of Travel Agency, Cabs, Payment, Login, Charges of the system.

DFD Level 1 provides a more detailed breakout of pieces of the 1st level DFD. You will highlight the main functionalities of Travel Agency.



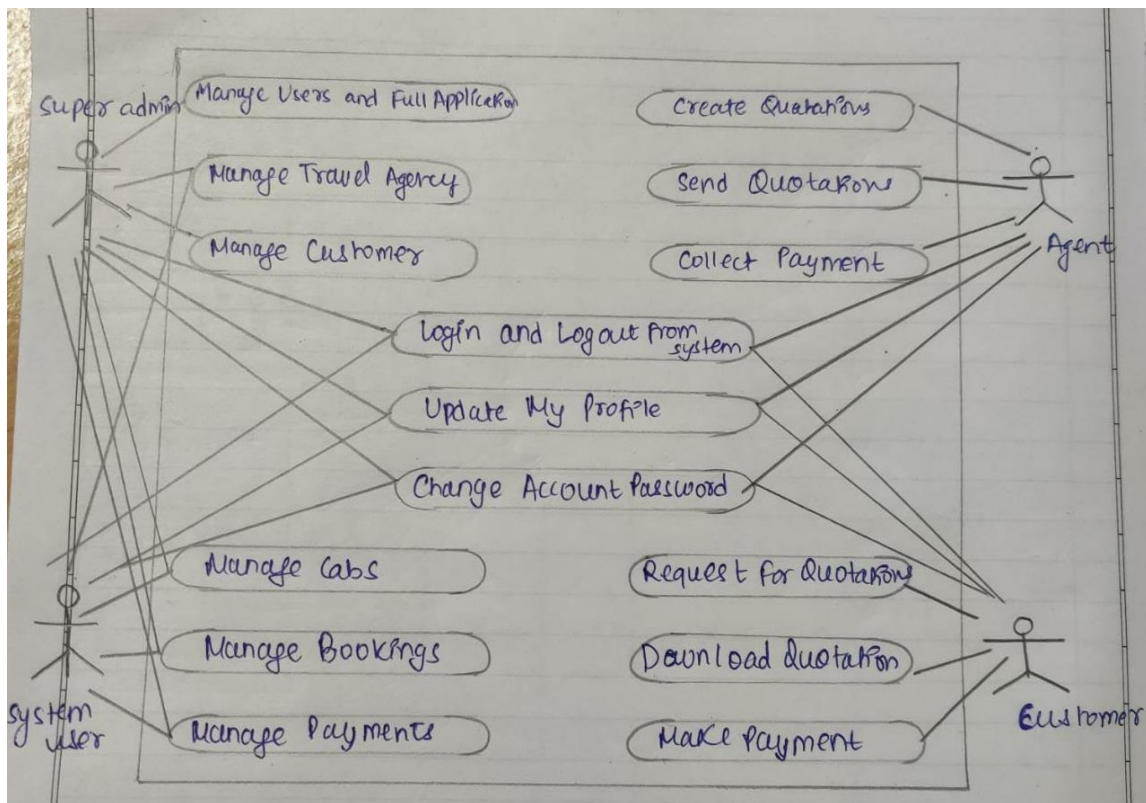
First Level Data Flow Diagram (1st Level DFD) Of Tours and travel automation System

## USE CASE DIAGRAM

This Use Case Diagram is a graphic depiction of the interactions among the elements of Tours and travel automation system. It represents the methodology used in system analysis to identify, clarify, and organize system requirements of Tours and travel automation system.

The main actors of Tours and travel automation System in this Use Case Diagram are: Super Admin, System User, Agent, Customer, who perform the different type of use cases such as Travel Agency, Manage Customer, Manage Cabs, Manage Bookings, Manage Hotels, Manage Payments, Manage Users and Full Tours and travel automation System Operations.

Major elements of the UML use case diagram of Tours and travel automation System are shown on the picture below.

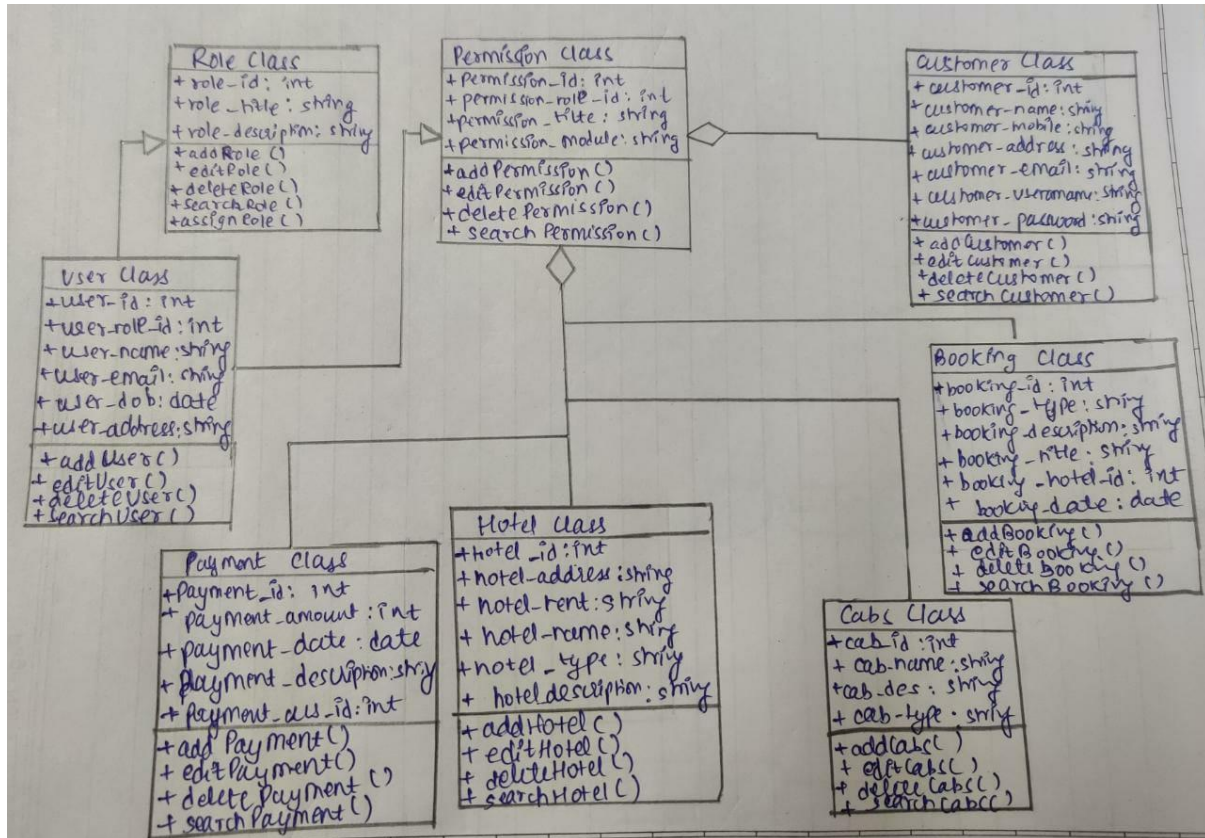


Use Case Diagram of Tours and travel automation system



## CLASS DIAGRAM

Tours and travel automation System Class Diagram describes the structure of a Tours and travel automation system classes, their attributes, operations (or methods), and the relationships among objects. **The main classes of the Tours and travel automation System are Travel Agency, Customer, Cabs, Bookings, Hotels, Payments.**



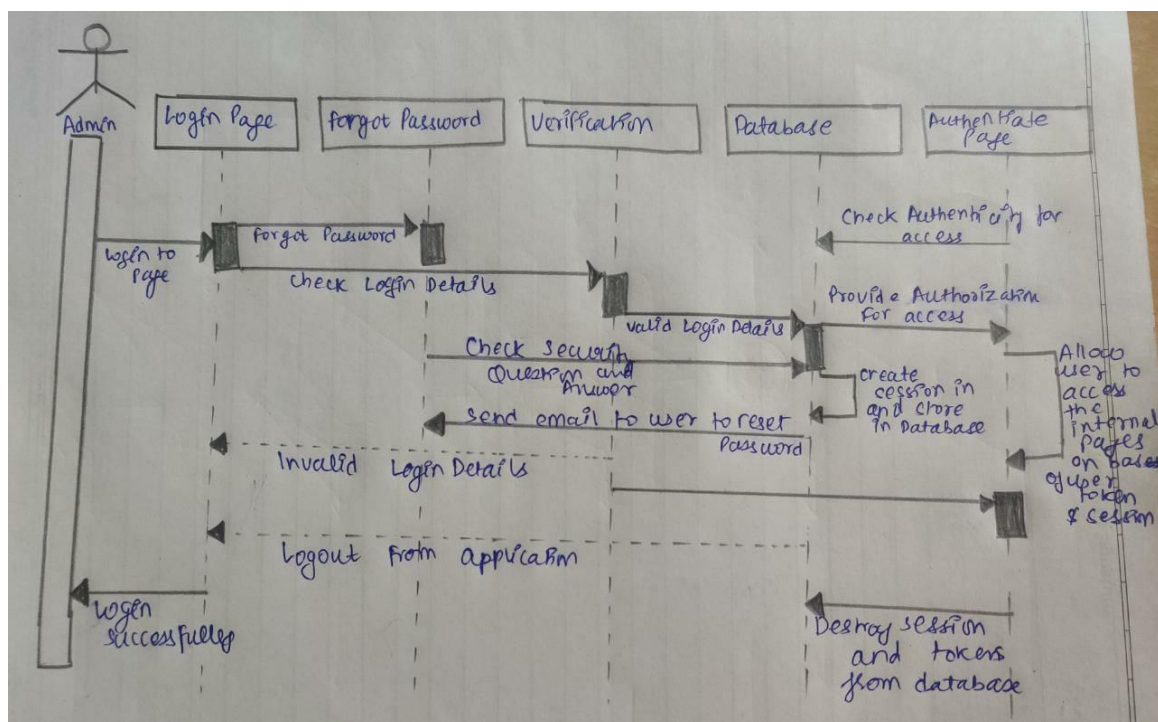
Class Diagram of Tours and travel automation system

## SEQUENCE DIAGRAM

This is the **UML sequence diagram of Travel Agency Management System** which shows the interaction between the objects of Cabs, Booking, Payments, Travel Agency, Customer. The instance of class objects involved in this UML Sequence Diagram of Tours and travel automation System are as follows:

- Cabs Object
- Booking Object
- Payments Object
- Travel Agency Object
- Customer Object

### Login Sequence Diagram Of Tours and travel automation System



- This is the **UML sequence diagram of Tours and travel automation System** which shows the interaction between the objects of Cabs, Booking, Payments, Travel Agency, Customer. The instance of class objects involved in this UML Sequence Diagram of Tours and travel automation System are as follows: **Cabs Object , Booking Object , Payments Object ,Travel Agency Object, Customer Object**

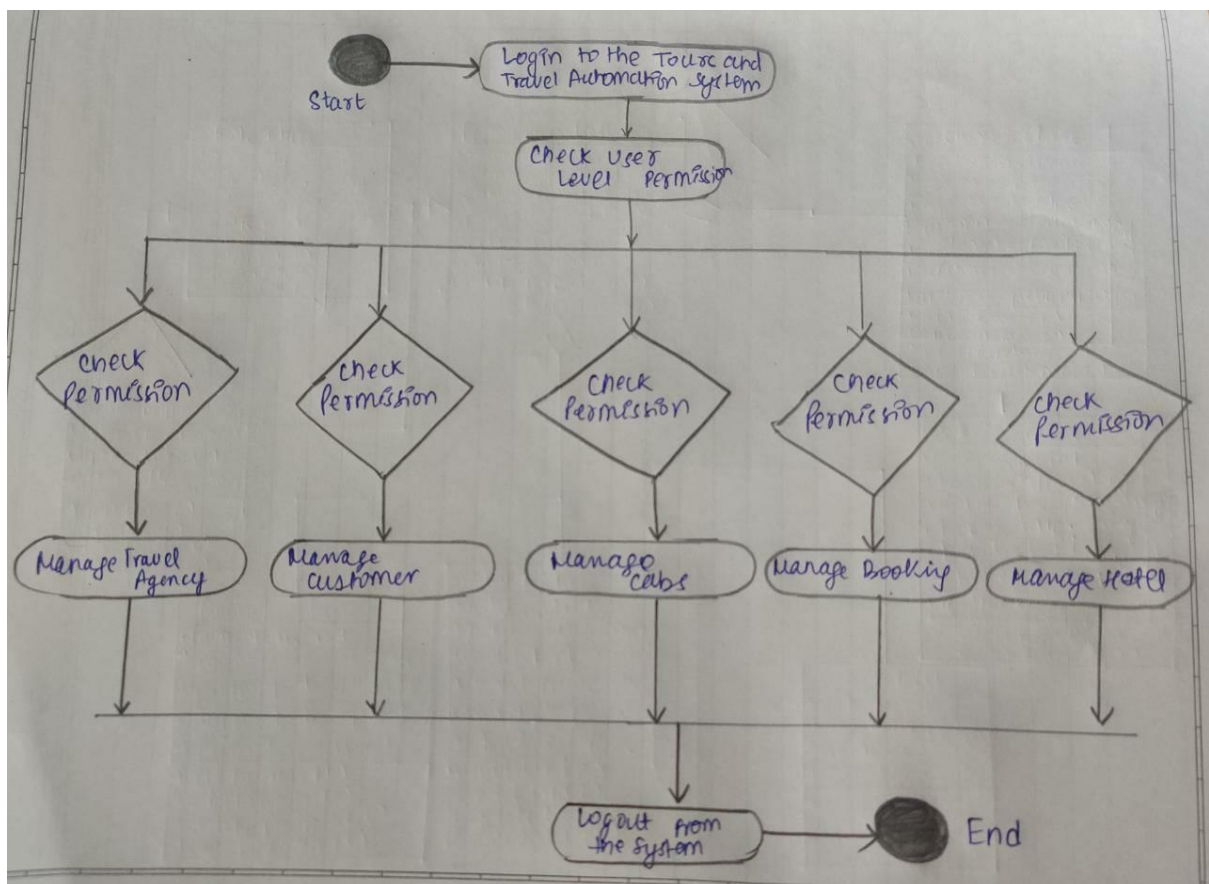


## ACTIVITY DIAGRAM

This is the Activity UML diagram of Tours and travel automation System which shows the flows between the activity of Hotel, Payments, Travel Agency, Customer, Booking. The main activity involved in this UML Activity Diagram of Tours and travel automation System are as follows:

- Hotel Activity
- Payments Activity
- Travel Agency Activity
- Customer Activity
- Booking Activity

### Activity Diagram Of Tours and travel automation System



## Login Activity Diagram Of Tours and travel automation System

