

# K. J. SOMAIYA COLLEGE OF ENGINEERING (A CONSTITUENT COLLEGE OF SOMAIYA VIDYAVIHAR UNIVERSITY) DEPARTMENT OF COMPUTER ENGINEERING S.Y. B. TECH. SEMESTER –III (2022-23)

**OOPM IA-II** 



# **Airline Ticketing System**

OOPM IA-II Project

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# **Problem Statement**

Create an airline management system where a user can book a flight by logging in the portal. The portal includes selecting the desired location as well as time of the flight. There is also a facility of a wallet for every user which is used for transaction on the portal.

# **OOP Features**

### Data Abstraction

Abstraction refers to the user's interaction with just a subset of an object's characteristics and operations.

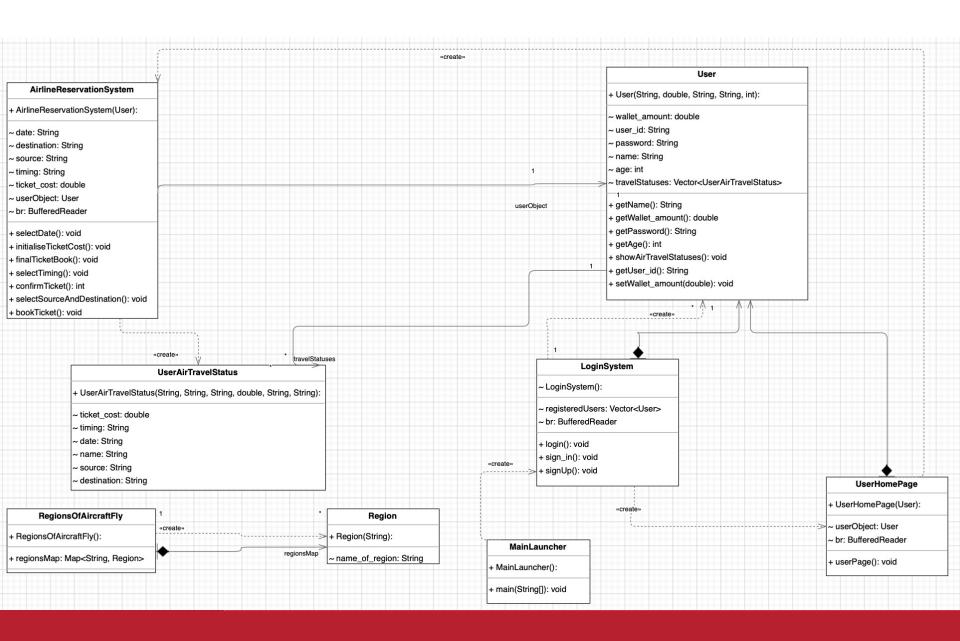
## Encapsulation

Encapsulation is the process of enclosing all critical information inside an object and only revealing a subset of it to the outside world.

## Exception Handling

The core advantage of exception handling is to maintain the normal flow of the application.

# Class Diagram



# Lets see the demo of the code now.....

# Some Test Cases

#### No signed Users

```
Welcome to United Airlines Air Travel Ticket Booking !!!

Select the appropriate option

1)Sign in

2)Sign up

3)Exit

1
There are no signed up users , thus sign in is invalid !!!
```

### Sign in Successful

## Wrong User ID

```
Select the appropriate option

1)Sign in

2)Sign up

3)Exit

1
Enter Your User ID :

120
Enter Your Password :
rugved
Given User ID does not exist, please try again !!!
```

## Wrong Source

```
Enter Source :
Mumba
Invalid Source , Please try again
```

#### Insufficient Balance

```
Selecting Timing for Air Travel:

1)Boarding -> 8:30 am

2)Boarding -> 1:45 pm

3)Boarding -> 7:15 pm

1

Select Date of Air Travel:
Enter the Date in dd/mm/yy format

Sorry !! Due to insufficient balance in your account, the transaction was unsuccessful!!

You will now be redirected to your logged in home page
```

#### **Booking Confirmation**

```
Congratulations, Your Ticket has been confirmed !!!

Your Booking Details are :

Ticket :

Date : 11/12/22

Source : Moscow

Destination : London

Timing : 19:15

Ticket Cost : 80000.0

You can even view the above details from your logged in page

Redirecting you to your logged in page
```

# **Learning Outcomes**

Dynamic Implementation & Logic Building

 Distinguishing and Composing Loops, Objects & Data Types

Data Handling & Abstraction

Project Development

# Thank You