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COMPUTER PROGRAMMING LAB 1 LABORATORY PROJECT REPORT

FLIGHT RESERVATION SYSTEM

**1)Aim of The Project and Requirements**

The aim of this Project is to register new users and flight reservations and adjust ticket prices according to selected features. It is necessary to have the JDK (Java Development Kit) and the IDE named Apache NetBeans to run this Project properly.

2) **Program Objects and Relationships**

2.1) **The main purpose of use of object Users:**

- The Admin and passenger objects are all associated with the Users object.

- Without Users it can't be in any of these two types of objects

- Upcasting and down casting can be applicable thanks to Users.

2.2) **The main purpose of use of object Admin:**

- New airports can be added and deleted with Admin object.

- New passengers can be created and removed with Admin object.

2.3) **The main purpose of use of object Passenger:**

-With Passenger object, passenger attributes can be adjusted.

-With Passenger object, new reservations can be created.

-Reservations can be listed with passenger object.

2.4) **The main purpose of use of object Airport:**

-Airport features can be adjusted.

2.5) **The main purpose of use of object Booking:**

- New accounts can be created and stored.

- Users can login with thanks to Booking object.

2.6) **The main purpose of use of object Ticket:**

- Upcasting and down casting can be applicable thanks to Ticket object.

- Ticket properties can be adjusted.

2.7) **The main purpose of use of object Test:**

- The test object exists so that all written rules can be tested and viewed.

3) **Rules**

Initially, there is one admin in the company, whose username is **Asim** and password is **asd**. You can run the system by coming to the "Test" class and pressing the Shift+F6 keys. You can log in to the system by entering the admin’s username and password by pressing the 1 button on the screen that appears**.** All rules are explained below in bullet points.

3.1) When a passenger is added manually, username, password, first name, last name, address, id, card number, phone number are entered by Admin.

3.2) After registration screen, passengers can login by using that username and password.

3.3) When an airport is added, the name, id, country and city are entered by the Admin.

3.4) Default ticket prices can changed by Admin.

3.5) After the login, passenger can create new reservation. When this section is selected, registered airports are listed and one is requested to be selected.

3.6) After airport selection, passengers selects ticket type and extra features that vary by ticket type. Then they are asked to confirm their choice.

3.7) Passengers can see all the reservations they made by selecting the relevant option.

**4)UML Diagram**

metin içeren bir resim

Açıklama otomatik olarak oluşturuldu