# INTERNATIONAL UNIVERSITY VIETNAM NATIONAL UNIVERSITY, HCM CITY

### **School of Computer Science & Engineering**



# PROJECT REPORT TOPIC 8: ANDROID LOCAL TRAIN TICKET SYSTEM

Lecturer: Nguyen Thi Thuy Loan

**Course: Principle of Database Management** 

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### INTERNATIONAL UNIVERSITY PRINCIPAL OF DATABASE MANAGEMENT

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#### **Chapter 1. INTRODUCTION**

Currently, the epidemic disease is becoming strained. However, some people working away from home want to reunite with their families. In addition, most of them choose to travel by train. It is mean that, there are thousands of people waiting in line to buy tickets which cause a negative impact on the epidemic. On the other hand, buying tickets at the ticket stations take times of the buyer and disputes can arise while waiting in line to buy tickets. Therefore, our team decide to choose the Android Local Train Ticketing for our topic.

Getting tickets online bring many benefits to customers. For instance, the passenger gets tickets easily. They are also no need to stand in line for getting ticket. It is more convenient when need not print tickets. In addition, for ticket companies, they have significant benefits such as easier access to customers, saving staff costs, advertising and easier payment methods with a bank account of customer.

Our project is an application ticket purchase system for an existing train station. This application is built on two main subjects. Each participant in the app is provided with an account. Through the initial login interface, the users depending on the role are given different functions.

#### a. Users:

Users will be provided for the ability to look up trips based on place and date. The booking will be made when the user chooses the desired trip. The payment also happens online, via online transfer using a debit or credit card, directly on the application. Moreover, the users can search their tickets by ID Ticket if they forget.

#### b. Admin:

Each admin has a unique account to add new users as well as their balance, and check view transactions.



#### Chapter 2. ENTITY – RELATIONSHIP DIAGRAM

#### 2.1. Requirement

The Ticket booking system allows users to order and buy tickets over the systems. The manager can manage all the trip's information, customer's information so on. The user must log in to access the system by a unique User ID and password. Each User has a unique User ID, a name, address, mail, phone, age, gender, security question, answer.

The user system is organized into 3 roles: Admin, Ticket Collector, User.

The Admin can manage User through adding new User by Add Users and can manage the User's Balance by adding balance.

The User can book the ticket that is provided by Train information. And the Collector can collect the ticket by unique Ticket ID.

Each train has its own ID, source, destination, seat's information, time, date, price. Each ticket has its ID, seat number, and total price of train it is provided. Each train include many seats which has a unique Seat number.

The balance will be recharged from the users by card. Each user's Balance has a unique card number and balance.



#### 2.2. Entity Relationship Diagram (ERD)

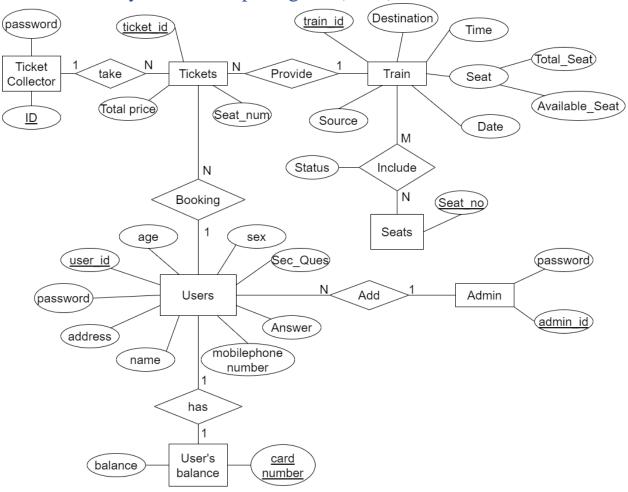


Figure 2.2 Entity Relationship Diagram of Booking Ticket System

#### Advantage:

Easy to visualize the relationship among entities and relationships.

It is an effective communication tool for database designer.

It is highly integrated with the relational model.

#### **Disadvantages:**

Some information could be hidden in ER model.

Limited relationship representation

No representation of data manipulation

Popular for high level design



### **Chapter 3. RELATIONAL MODEL**

#### 3.1. Relational Model

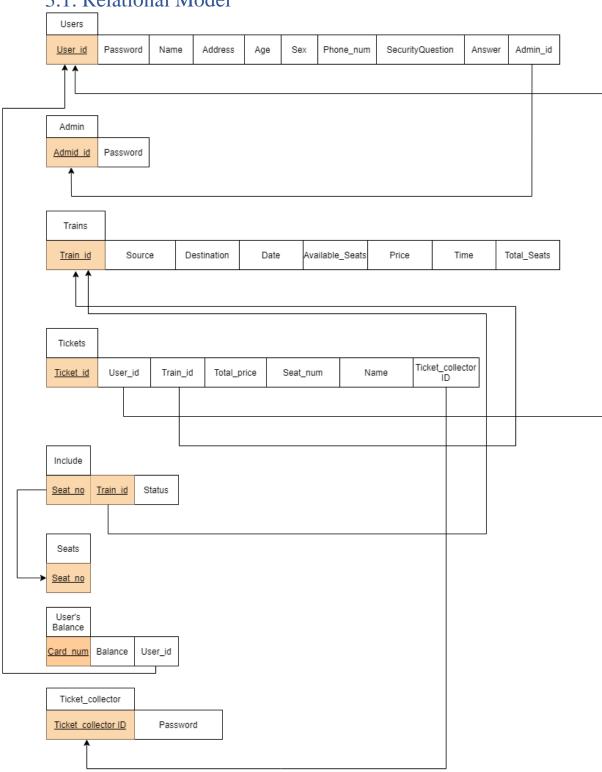


Figure 3.1. Relational Model



#### 3.2. Explanation:

#### 3.2.1. For the entity:

We have seven entities in total (Users, Admin, Train, Tickets, User's Balance, Ticket Collector, Seats). Thus, changing from ER diagram to relational model gives out seven schemas.

Each has the primary keys as given:

Users (<u>User id</u>, Password, Name, Address, Age, Sex, Phone Number, Security Question, Answer)

**Admin** (Admin\_id, Password)

**Trains** (<u>Train\_id</u>, Source, Destination, Date, Available\_Seats, Price, Time, Total\_Seats)

**Tickets** (Ticket\_id, Total\_price, Seat\_num, Name)

User's Balance (Card\_num, Balance)

**Ticket Collector** (<u>Ticket collector ID</u>, Password)

Seats (Seat\_no)

#### 3.2.2. For the relationship:

*Add relationship* (between Users and Admin): It is a 1-N relationship. Therefore, we will place the primary key of Admin (Admin\_id) in the schema of Users as foreign key.

**Book relationship** (between Users and Ticket): It is a 1-N relationship. Therefore, we will only have a way to present, which is putting the primary key of Users, in detail, User\_id in the schema of Ticket as foreign key.

*Has relationship* (between Users and User's Balance): It is a 1-1 relationship. So, we will place the primary key of Users (User\_id) in the schema of User's Balance as foreign key or we can also do the opposite.

**Provide relationship** (between Train and Ticket): It is a 1-N relationship. Therefore, we will place the primary key of Train (Train\_id) in the schema of Ticket as foreign key.

*Take relationship* (between Ticket Collector and Tickets): It is 1-N relationship. So, we will only have a way to present, which is placing the primary key of Ticket Collector (Ticket\_Collector ID) in the schema of Tickets as foreign key.

*Include relationship* (between Train and Seats): It is a M-N relationship. Therefore, we put both the primary key of Train (Train\_id) and Seats (Seat\_no) to the new schema named Include as primary key.



#### Combining (1) and (2), the relation schema is:

Users (<u>User id</u>, Password, Name, Address, Age, Sex, Phone Number, Security Question, Answer, Admin\_id)

**Admin** (Admin\_id, Password)

Train (Train\_id, Source, Destination, Date, Available\_Seats, Price, Time, Total\_Seats)

**Tickets** (<u>Ticket id</u>, Users\_id, Train\_id, Total\_price, Seat\_num, Name, Ticket\_collector ID)

Seats (Seat\_no)

User's Balance (Card\_num, Balance, User\_id)

Ticket Collector (Ticket\_collector ID, Password)

Include (Seat\_no, Train\_id, Status)

#### **Chapter 4. DATABASE STRUCTURE**

#### 4.1. Database Diagram

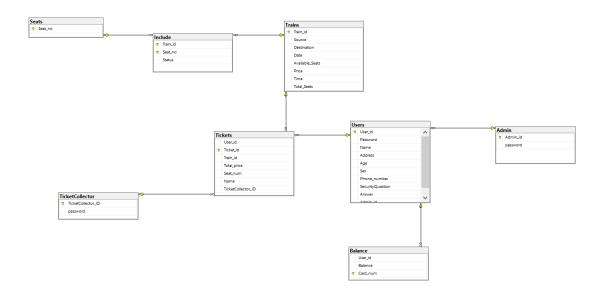


Figure IV.1 Database Diagram



#### 4.2. Explanation

**Users:** It contains all personal information of User with distinguish by ID User. Each user has its own role in using different functions of the system.

**Tickets:** It contains information of User, train, total price and seat number. There are 3 foreign keys: ID User to get information of User who bought this ticket, ID tickets to get information of the Trip that was booked by User, and ID Ticketcollector.

**Trains:** It contains all information of Trip with distinguish by unique ID train and information of the train.

**Admin:** It saves all account of the system includes password and ID Admin Reference control, repair and update the system

**Balance:** It contains information of User money with a primary key is Card\_num.

**Seat:** It identified by train ID seat number.

**Ticket Collector:** It saves all account of the system includes password and ID TicketsCollector to check the ticket.

**Include:** 2 primary keys are ID train and seat\_no, also status of that seat.

#### **CHAPTER 5: DATABASE CREATION:**

#### 5.1. Admin Table:

CREATE TABLE Admin (

Admin\_id varchar(10) NOT NULL,

password varchar(50) NOT NULL,

PRIMARY KEY (Admin\_id)

)

|            | Admin_id | password |
|------------|----------|----------|
| <b>*</b> * | NULL     | NULL     |

#### 5.2. Users Table

CREATE TABLE Users (

User\_id varchar(10) NOT NULL,

Password varchar(50) NOT NULL,



Name nvarchar(50) NOT NULL,

Address nvarchar(50) NOT NULL,

Age int NOT NULL,

Sex nvarchar(10) NOT NULL,

Phone number varchar(20) NOT NULL,

SecurityQuestion nvarchar(50) NOT NULL,

Answer nvarchar(50) NOT NULL,

Admin\_id varchar(10),

PRIMARY KEY (User\_id),

FOREIGN KEY(Admin\_id) REFERENCES Admin

)

|            | User_id | Password | Name | Address | Age  | Sex  | Phone_n | Security | Answer | Admin_id |
|------------|---------|----------|------|---------|------|------|---------|----------|--------|----------|
| <b>*</b> * | NULL    | NULL     | NULL | NULL    | NULL | NULL | NULL    | NULL     | NULL   | NULL     |

#### 5.3. Trains Table

#### **CREATE TABLE Trains**(

Train\_id varchar(10) NOT NULL,

Source nvarchar(50) NOT NULL,

Destination nvarchar(50) NOT NULL,

Date date NOT NULL,

Available\_Seats bigint NOT NULL,

Price bigint NOT NULL,

Time time(7) NOT NULL,

Total\_Seats bigint NOT NULL,

PRIMARY KEY (Train\_id)

)

|            | Train_id | Source | Destinati | Date | Availabl | Price | Time | Total_Se |
|------------|----------|--------|-----------|------|----------|-------|------|----------|
| <b>*</b> * | NULL     | NULL   | NULL      | NULL | NULL     | NULL  | NULL | NULL     |



#### 5.4. Tickets Table

#### CREATE TABLE Tickets (

User\_id varchar(10) NOT NULL,

Ticket\_id varchar(10) NOT NULL,

Train\_id varchar(10) NOT NULL,

Total\_price bigint NOT NULL,

Seat\_num int NOT NULL,

Name varchar(30) NOT NULL,

TicketCollector\_ID varchar(10),

PRIMARY KEY (Ticket\_id),

FOREIGN KEY(Train\_id) REFERENCES Trains,

FOREIGN KEY(User\_id) REFERENCES Users

)

|            | User_id | Ticket_id | Train_id | Total_price | Seat_num | Name | TicketCo |
|------------|---------|-----------|----------|-------------|----------|------|----------|
| <b>*</b> * | NULL    | NULL      | NULL     | NULL        | NULL     | NULL | NULL     |

#### 5.5. TicketCollector Table

#### CREATE TABLE TicketCollector(

TicketCollector\_ID varchar(10) NOT NULL,

password varchar(50) NOT NULL,

PRIMARY KEY (TicketCollector\_ID)

)

|          | TicketCo | password |
|----------|----------|----------|
| <b>*</b> | NULL     | NULL     |

#### 5.6. Seats Table

**CREATE TABLE Seats**(

Seat\_no int NOT NULL,



#### PRIMARY KEY (Seat\_no)

)

|          | Seat_no |
|----------|---------|
| <b>*</b> | NULL    |

#### 5.7. Balance Table

#### **CREATE TABLE Balance**(

User\_id varchar(10) NOT NULL,

Balance bigint NOT NULL,

Card\_num nvarchar(50) NOT NULL,

PRIMARY KEY (Card\_num),

FOREIGN KEY(User\_id) REFERENCES Users

)

|            | User_id | Balance | Card_num |
|------------|---------|---------|----------|
| <b>*</b> * | NULL    | NULL    | NULL     |

#### 5.8. Include Table

#### CREATE TABLE Include (

Train\_id varchar(10) NOT NULL,

Seat\_no int NOT NULL,

Status varchar(30),

PRIMARY KEY(Train\_id, Seat\_no),

FOREIGN KEY(Train\_id) REFERENCES Trains,

FOREIGN KEY(Seat\_no) REFERENCES Seats

)

|            | Train_id | Seat_no | Status |
|------------|----------|---------|--------|
| <b>*</b> * | NULL     | NULL    | NULL   |

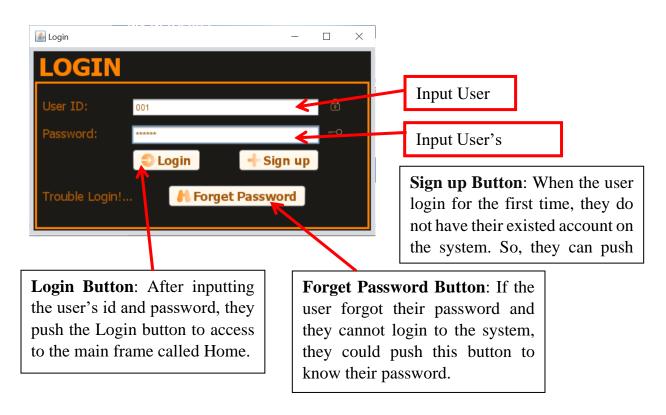


#### **Chapter 6. EXECUTION**

The application is designed based on "Android Local Train Ticketing Project." [1]

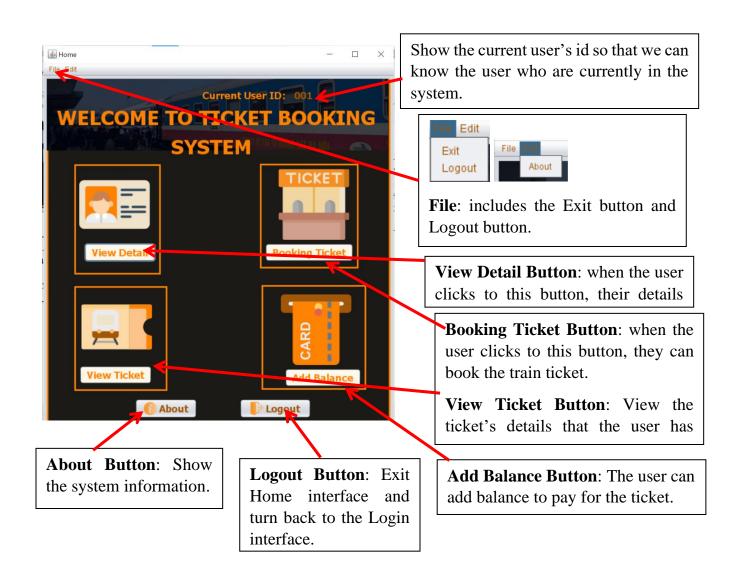
#### 6.1. User

#### 6.1.1. Login & Logout





6.1.2. Home





6.1.3. Sign Up



When Users do not have an account. They must sign up. The UI will appear and requires the users to input their information includes the username and password of the account.

**Sign Up Button**: When the users push this button, the system will check whether the User's id is exited in the system or not.

+ If it is not existed the following message will be shown to announce that the account has been created. Then, the system will insert user's information into database to store.



#### 6.1.4. Forgot Password

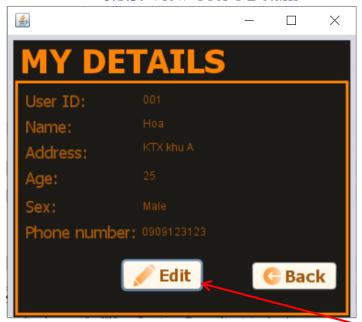
**Search Button**: When the user forgot their password, they can input their id and push the Search button, then their name and security question will be shown.

**Retrive Button**: The user input their answer for the security question and push the Retrive button, then the user's password will be shown.

| Forgot Password    |                           |   | -          |        | × |
|--------------------|---------------------------|---|------------|--------|---|
| <b>FORGOT</b>      | <b>PASSWORD</b>           |   |            |        |   |
| User ID:           | 001                       | ١ | 0, 9       | Searc  | h |
| Name:              | Hoa                       |   |            |        |   |
| Security Question: | What is your school name? |   |            |        |   |
| Answer:            | IU                        |   | <u>♣</u> F | Retriv | e |
| Your Password:     | 123456                    |   |            |        |   |
|                    |                           |   | C E        | Back   |   |



6.1.5. View User's Details



After click on the **View Details** Button in Home UI,
the user's details including
some basic information (ID,
Name, Address, Age, Sex,

EDIT INFORMATION

Current User:
Name:
Address:
Age:
Sex:
Phone Number:
Security Question:
What is your mother Tounge?

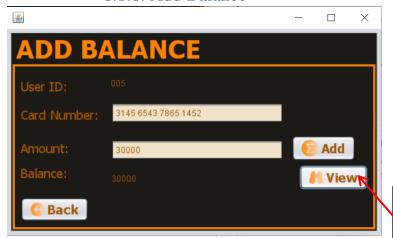
Answer:

**Edit Button**: Allows users to modify their individual information. After clicking

**Save Button**: when clicking this button, the information will be updated after inputting the information that need to be



6.1.6. Add Balance



**Add Button:** After inputting the card number and the amount, the users push this button. Then, the system will check if the account has existed in the database or not.

+ If the account has been existed, the card number and amount will be updated for the user's account. The message below will also be shown.



+ If the account has not been existed in the system (it means this is the new users), the system will create the new account on the system. The message will be shown.



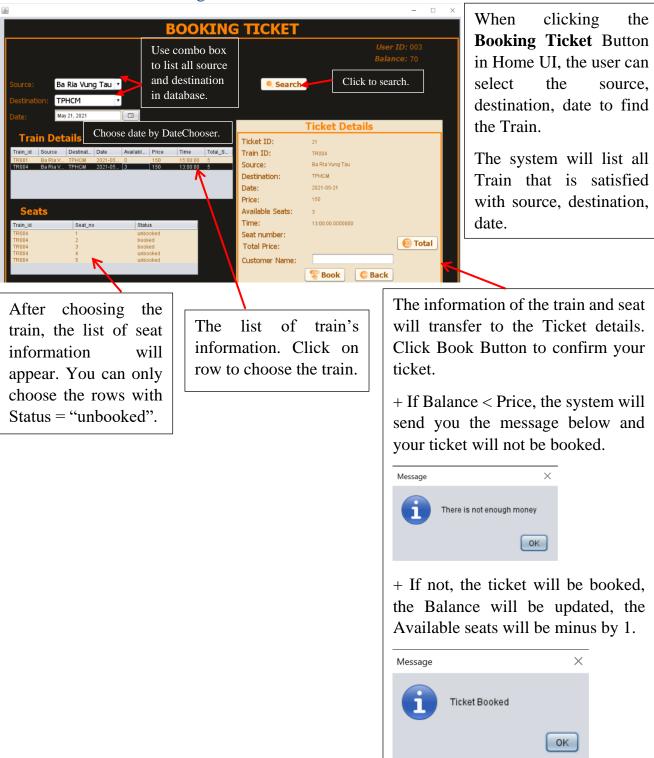
When clicking the **Add Balance** Button in Home UI, the user can create or updated their balance to pay for the ticket.

#### **View Button:**

This button will allow the user to view their current balance.



#### 6.1.7. Booking Ticket





#### 6.1.8. View ticket:

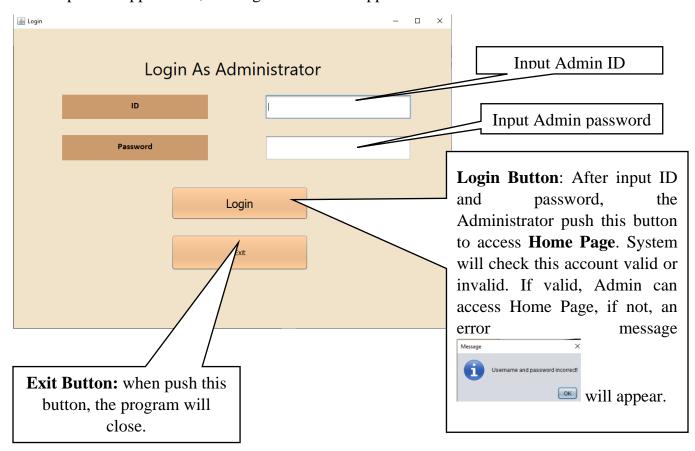


When clicking the **View Ticket** Button in Home UI,
the user can view all tickets
that have been booked
ordered by Train ID.

#### 6.2. Admin:

#### 6.2.1. Login Frame:

When open the application, the Login Frame will appear.





6.2.2. Home Page:



There are 4 buttons in this Frame:

Add User button: Admin can add a user to system.

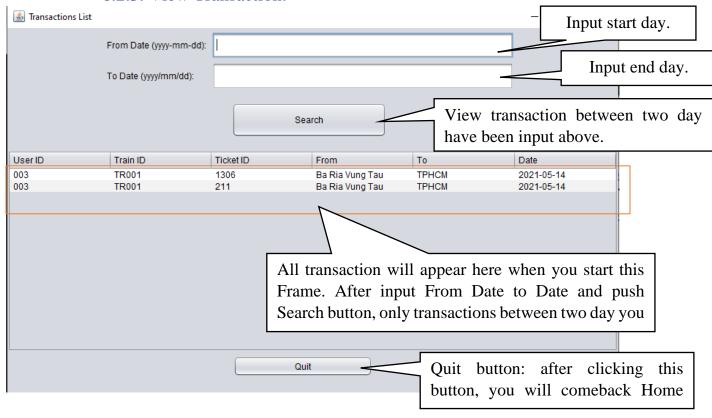
Add Balance button: Admin can change user's balance.

**View Transaction:** See what transactions have been done.

Log Out: Return to the login Frame.



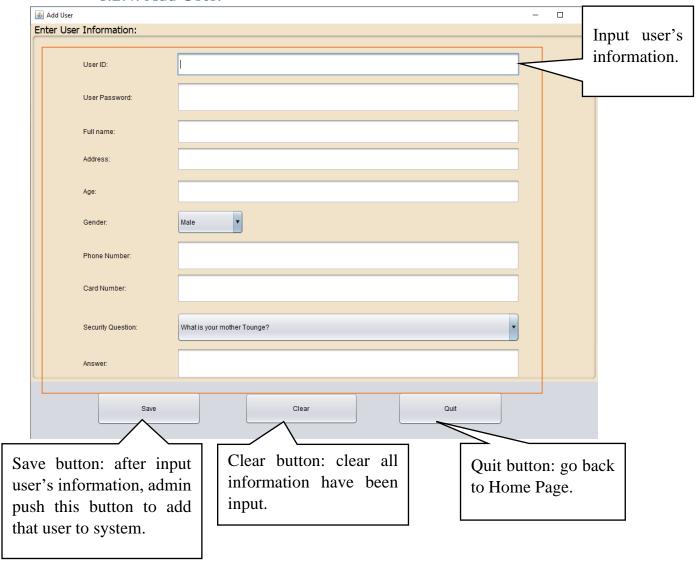
#### 6.2.3. View Transaction:





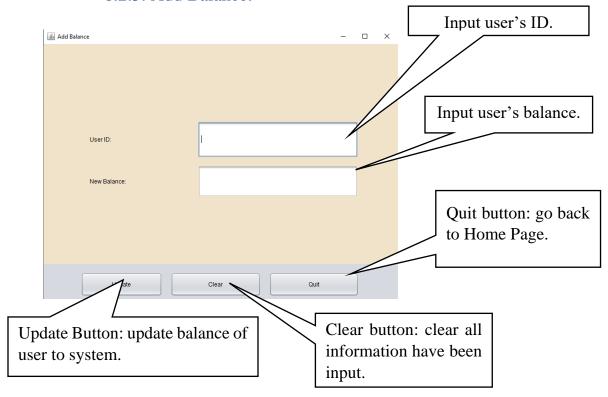


#### 6.2.4. Add User:





6.2.5. Add Balance:



#### **Chapter 7. QUERY COMMAND**

# 1. Find all Ticket ID that the customer's name is similar with the name of person booking ticket

SQL Statement:

SELECT Ticket\_id

**FROM** Tickets T

WHERE Name IN (SELECT Name

FROM Users U

WHERE T.User\_id=U.User\_id)

Relational algebra:

 $\pi_{\text{Ticket\_id}}$  (Ticket  $\bowtie_{\text{Ticket.User\_id=Users.User\_id}}$  AND Name.Tickets=Name.Users Users)





#### 2. Find the User\_id who booked Train TR001 and not booked Train TR002

SQL Statement:

SELECT DISTINCT User\_id

**FROM** Tickets T

WHERE Train\_id='TR001'

**EXCEPT** 

SELECT DISTINCT User\_id

**FROM** Tickets T

WHERE Train\_id='TR002'

Relational algebra:

 $\pi_{\text{User\_id}}(\sigma_{\text{Train id='TR001'}}, \text{Tickets}) - \pi_{\text{User\_id}}(\sigma_{\text{Train id='TR001'}}, \text{Tickets})$ 





### 3. Find the User\_ID who booked more than 2 seats. Sort the result based on number of seats booked.

SQL Statement:

SELECT User\_id, COUNT (\*) AS Number of Seats

**FROM** Tickets T

GROUP BY User\_id

HAVING COUNT (\*) > 2

**ORDER BY Number of Seats** 



#### 4. Find total seats sold in May:

SQL Statement:

SELECT COUNT (\*) AS NumberOfSeats

**FROM** Tickets T

WHERE EXISTS (SELECT \*

FROM Trains T1

WHERE T1.Train\_id =T.Train\_id AND MONTH (Date) =5)







#### 5. Find the user's name whose balance is the most

SQL Statement:

**SELECT** Name

**FROM Users** 

WHERE User\_id IN (SELECT User\_id

**FROM** Balance

WHERE Balance = (SELECT MAX(Balance)

FROM Balance))





#### 6. Find the name of users who book train having more than 2 available seats

SQL Statement:

select DISTINCT U.Name

from Users U, Tickets

where U.User id = Tickets.User id

AND Tickets.Ticket\_id IN (select T.Ticket\_id

from Tickets T, Trains S

where T.Train\_id= S.Train\_id AND S.Available\_Seats > 2)

|   | Name |  |
|---|------|--|
| 1 | Hoa  |  |
| 2 | Linh |  |

### 7. Find the user id and number of tickets booked by each user. Give an alias name as no\_of\_tickets. Sort the result based on number of tickets booked.

SQL Statement:

select User\_id, count (Ticket\_id) as no\_of\_tickets

from Tickets

group by User\_id

order by no\_of\_tickets

|   | User_id | no_of_tickets |
|---|---------|---------------|
| 1 | 001     | 2             |
| 2 | 002     | 3             |
| 3 | 003     | 3             |

#### 8. Find the information of users who booked more than 2 tickets

SQL Statement:

Select \*

From Users U

Where 2 < (Select count (\*) From Tickets T

Where U.User\_id = T.User\_id)



|   | User_id | Password | Name  | Address         | Age | Sex    | Phone_number | SecurityQuestion          | Answer | Admin_id |
|---|---------|----------|-------|-----------------|-----|--------|--------------|---------------------------|--------|----------|
| 1 | 002     | 123123   | Linh  | KTX khu B       | 20  | Female | 0909121212   | What is your school name? | IU     | NULL     |
| 2 | 003     | 123456   | Thinh | Ba Ria Vung Tau | 23  | Male   | 0908135311   | What is your nickname?    | HT     | NULL     |

#### 9. Find all passengers booked ticket by someone else

SQL Statement:

Select Distinct T.Name As passengers

from Tickets T, Users U

where T.Name not in (Select Distinct T.Name

from Tickets T, Users U

Where T.User\_id = U.User\_id and T.Name = U.Name)

|   | Name |
|---|------|
| 1 | Hinh |
| 2 | Lien |
| 3 | long |

#### 10. Find name and address of users who book train having source in Ba Ria Vung Tau

SQL Statement:

select DISTINCT U.Name, U.Address

from Users U, Tickets T, Trains S

where T.User id=U.User id AND T.Train id=S.Train id

AND S.Train\_id IN (Select Train\_id

**from** Trains

where Trains.Source = 'Ba Ria Vung Tau')

|   | Name  | Address         |
|---|-------|-----------------|
| 1 | Thinh | Ba Ria Vung Tau |
| 2 | Hoa   | KTX khu A       |
| 3 | Linh  | KTX khu B       |

#### 11. Find the users that booked for someone else

SOL Statement:

Select Distinct U.Name As booker



from Tickets T, Users U

where T.Name not in (Select Distinct T.Name

from Tickets T, Users U

Where T.User\_id = U.User\_id and T.Name = U.Name)

|   | booker |
|---|--------|
| 1 | Hoa    |
| 2 | Linh   |
| 3 | Thinh  |

#### 12. Find all users in the database who have more balance than each user

SQL Statement:

**SELECT** U.name

FROM Users U, Balance B

WHERE U.User\_id = B.User\_id and B.Balance > all (SELECT avg (Balance)

**FROM** Balance)



#### 13. Find the user's name who has the least balance

SQL Statement:

**SELECT** Name

**FROM** Users

WHERE User\_id IN (SELECT User\_id

**FROM** Balance

WHERE Balance = (SELECT MIN (Balance)

FROM Balance))

Name 1 Thinh



### **Chapter 8. CONTRIBUTION**

| WORKING   |   | CODING         | CHECK                        |
|---|---|----------------|------------------------------|
| Doing Proposal  |   | All<br>members | DONE                         |
|   | Users, Trains, Balance  | Giao           | Thinh                        |
|   | Tickets, Seats, Include   | Thinh          | Giao                         |
| Create Databases  | Admin   | Dang           | Phuc                         |
|   | Check linked in whole database  | Anh            | A 11                         |
|   | Optimize database   | 1              | All members                  |
| background of the a   | and decided about general<br>pplication. How many<br>luded functions of user and              | All<br>members |                              |
| Find the information similar system                             | n and document about the  | Anh            | All members                  |
| Querying the<br>database using<br>Java Database<br>Connectivity | Design the main display of Login, Signup. Forget Password of Users, View Details, Add Balance | Giao           | Thinh                        |
|   | Design the main display of <b>Booking Ticket</b> , View Ticket                                | Thinh          | Giao                         |
|   | Function of Login, Signup. Forget Password of Users, View Details, Add Balance                | Giao           | Thinh<br>(Check<br>and test) |
|   | Function of <b>Booking Ticket, View Ticket</b>  | Thinh          | Giao<br>(Check<br>and Test)  |



|   | Design the main display of Log in, Home Page, Add User, Add Balance, View Transaction as Administrator | Phuc           | Dang        |
|---|--|----------------|-------------|
|   | Function of Log in, Home Page, Add User, Add Balance, View Transaction as Administrator                | Dang           | Phuc        |
| Design and complet requirement              | e the ERD diagram due to   | Thinh          | All members |
| Design, complete an<br>Model                | d explain the Relational   | Giao           | All members |
| Design, complete an<br>Diagram              | d explain the Database   | Phuc           | All members |
| structure, quality of                       | and decided about the the the application, improve the veloped the application with f have new ideas.  | All<br>members |             |
| Find 5 query comme<br>the solution for each | ands each person and find out<br>a.  | All<br>members |             |
| Summary to write t                          | he report  | Thinh          | All members |
| Design the slides                           |  | Anh            | All members |

### **Chapter 9. CONCLUSION**

Ticket Booking project is combined with many important skills for the student to improve their knowledge, coding skill, thinking logically, develop problems, and solve them.

While making the project, we made our progress by solving problems. This provided us experiences that will be useful in the future. We came to know that how we can use Java to make an app, create a logical database that is suitable for the project and link it with the programming language. Doing project is known as one of the best ways to learn more algorithms and optimize them.



Some important things that we learned include designing a good program architecture and analyst customer requirements, converting real-life situations into efficient code.

Therefore, besides having a deeper knowledge into Database structure, this project also helps us improve programming ability.

#### **REFERENCES**

[1] Nevon Projects, "Android Local Train Ticketing Project", 2015 [Online].

Link access: <a href="https://nevonprojects.com/android-local-train-ticketing-project/?fbclid=IwAR0vA63Gu9-">https://nevonprojects.com/android-local-train-ticketing-project/?fbclid=IwAR0vA63Gu9-</a>

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