

Booking airline tickets



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Task	Assigned to	Start	End	Period
Introduction	Amnah	21/1/2024	22/1/2024	One day
Stakeholders	Amanh	22/1/2024	22/1/2024	Two hours
Functional requirements	Arawa	19/1/2024	21/1/2024	Three days
Use case	Sara	21/1/2024	23/1/2024	Two days
Activity diagram	Sara	21/1/2024	23/1/2024	Two days
Sequence digram	Fatima	22/1/2024	24/1/2024	Two days
Class diagram	Fatima	24/1/2024	26/1/2024	Two days
Design prototype	All gruop	30/1/2024	30/1/2024	One day
Surveys	Sara	29/1/2024	30/1/2024	One day

PHASE: 1

1.1 INTRODUCTION:

This stage will include a description of the system and some of the problems it will solve, as well as a list of stakeholders.

1.2 PROJECT DESCRIPTION AND PURPOSE:

Current airline ticket booking methods may lack convenience, and the booking process can be time-consuming. Additionally, there may be a lack of sufficient information about the flight or price comparisons. Online airline ticket booking systems provide a means for travelers to book their preferred flights online, on their desired dates. This method is considered the best way to manage reservations as it saves time, facilitates the booking process, and allows for easy access to pricing and offers, as well as providing personal and flight information easily. The system helps airlines reach customers easily and allows travelers to access services that meet their needs. It also enhances customer service by providing positive experiences to achieve customer satisfaction.

1.3 STAKEHOLDERS:

1-Travelers: The site helps travelers book tickets and choose their favorite destinations

2- Airlines: manage and organize reservations and flights

3. Travel agencies: Travel agencies act as intermediaries between travelers, booking tickets on behalf of customers and providing the travel services they need.

4- Hotel companies and tourism service providers: These companies work with the ticket reservation system to provide an integrated travel experience for travelers.

5-Regulatory and government agencies: They work to determine the laws and regulations related to booking airline tickets, protecting the rights of travelers, and ensuring the integrity of the system and financial transactions.

6-Air Cargo Companies: Air cargo companies use a ticketing system to plan, book, and track air shipments.

7- Technical support service providers: They provide technical support and maintenance for the ticket reservation system and work to solve technical problems and provide continuous updates and improvements.

8- Research and evaluation institutions: Research and evaluation institutions conduct studies and analyzes of the ticket reservation system, evaluate its performance, and identify future trends and improvements.

PHASE: 2

2.1 INTRODUCTION:

In this phase, we will mention the functions that the airline ticket reservation system should perform in order to achieve the goals of serving users.

2.2 FUNCTIONAL REQUIREMENTS

1-register

2-choosing flights

3-Booking confirmation

4-payment

5-flight-tracking

ID	1
Title	register
Description	The user can create a new account or register, to facilitate the storage of data such as username, password and email

ID	2
Title	choosing flights
Description	The system allows the user to select the destination, departure time, arrival time, and duration of the trip.

ID	3
Title	Booking confirmation
Description	The system allows the user to confirm the selected trip and receive a confirmation message via email containing the booking reference number and all the details of the trip.

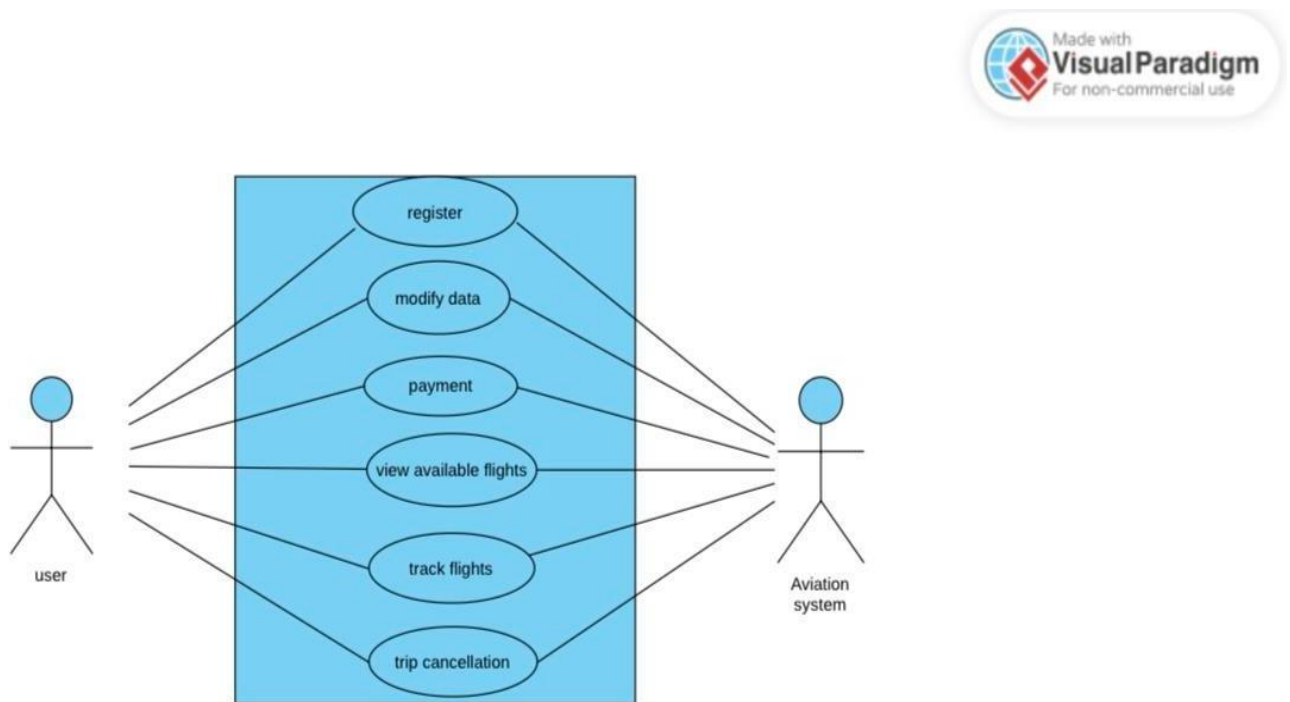
ID	4
Title	payment
Description	The user has payment options either through credit card or PayPal. After entering the card details, the payment process will be completed.

ID	5
Title	flight-tracking
Description	The user is tracking the flight using the booking number and wants to view flight information such as departure time and arrival time.

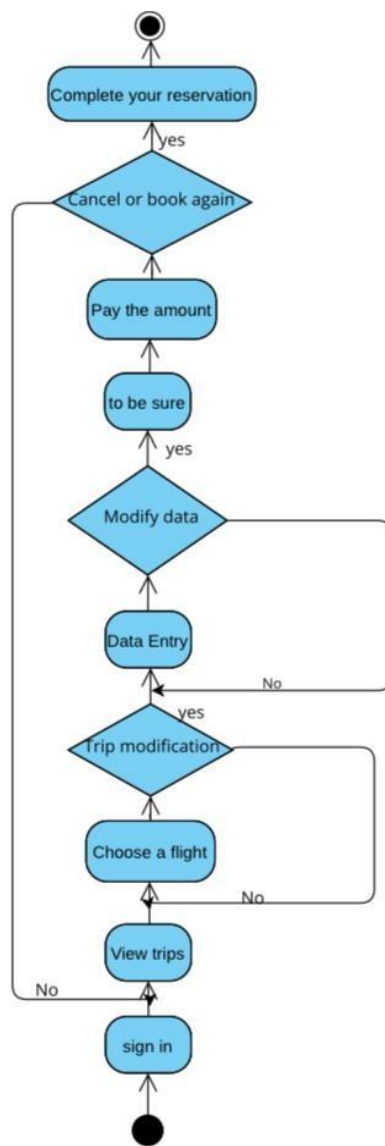
PHASE: 3

3.2.1 Use case:

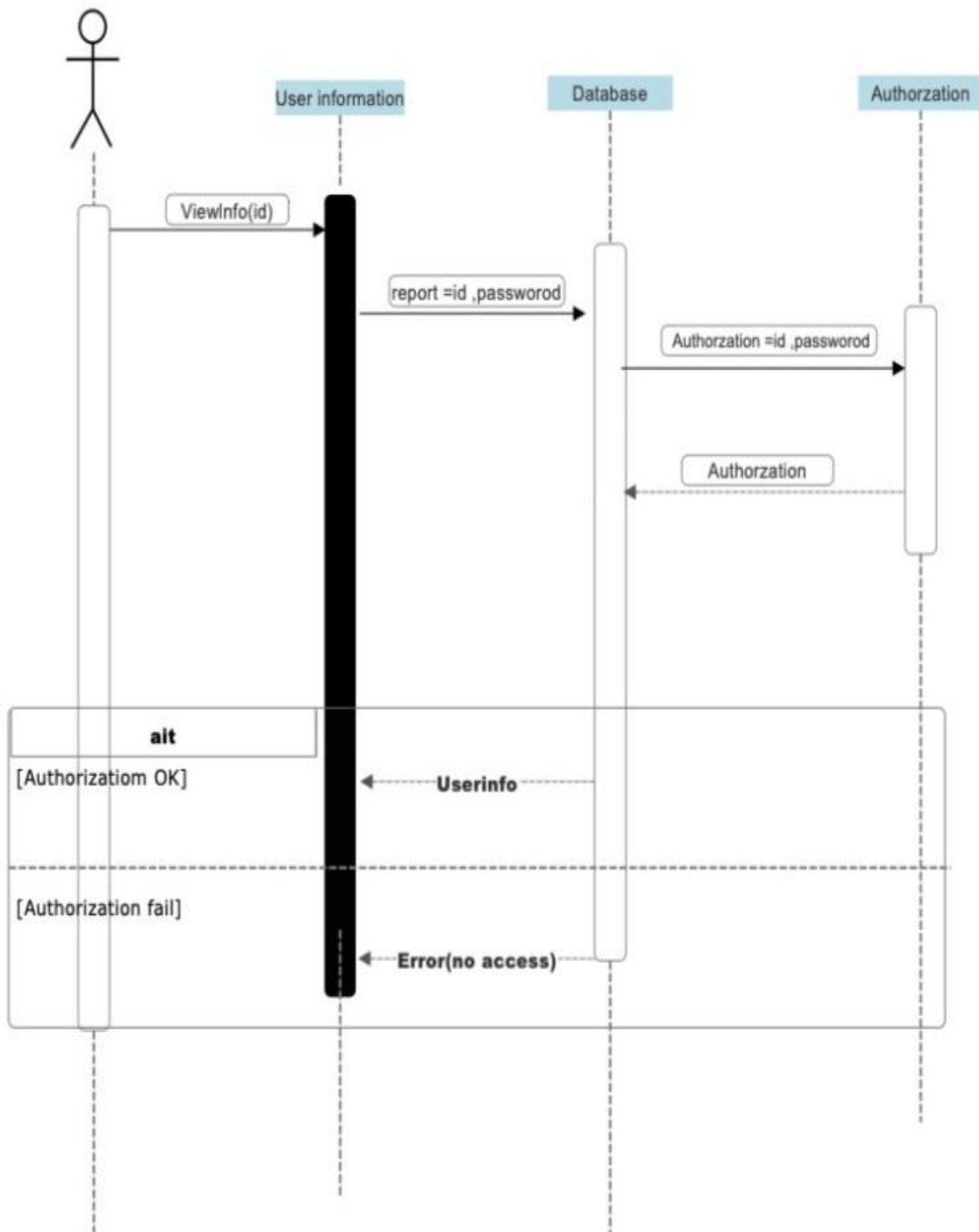
The available services between the user and the airline system are login, data modification, payment, viewing available flights, tracking flights, and canceling a flight.



3.2.2 Activity diagram: The first step the user will take is to log into the system. After that, they will be presented with the flights and choose the suitable one for them. If it doesn't match their preferences, they will need to select another suitable flight and enter the data correctly. In case they enter some data incorrectly, they will be prompted to re-enter the data again. Then, they will confirm the booking and make the payment. If the amount doesn't suit them, they will go back to the beginning to view the suitable reservations for them, make a selection, and complete the booking process. After that,

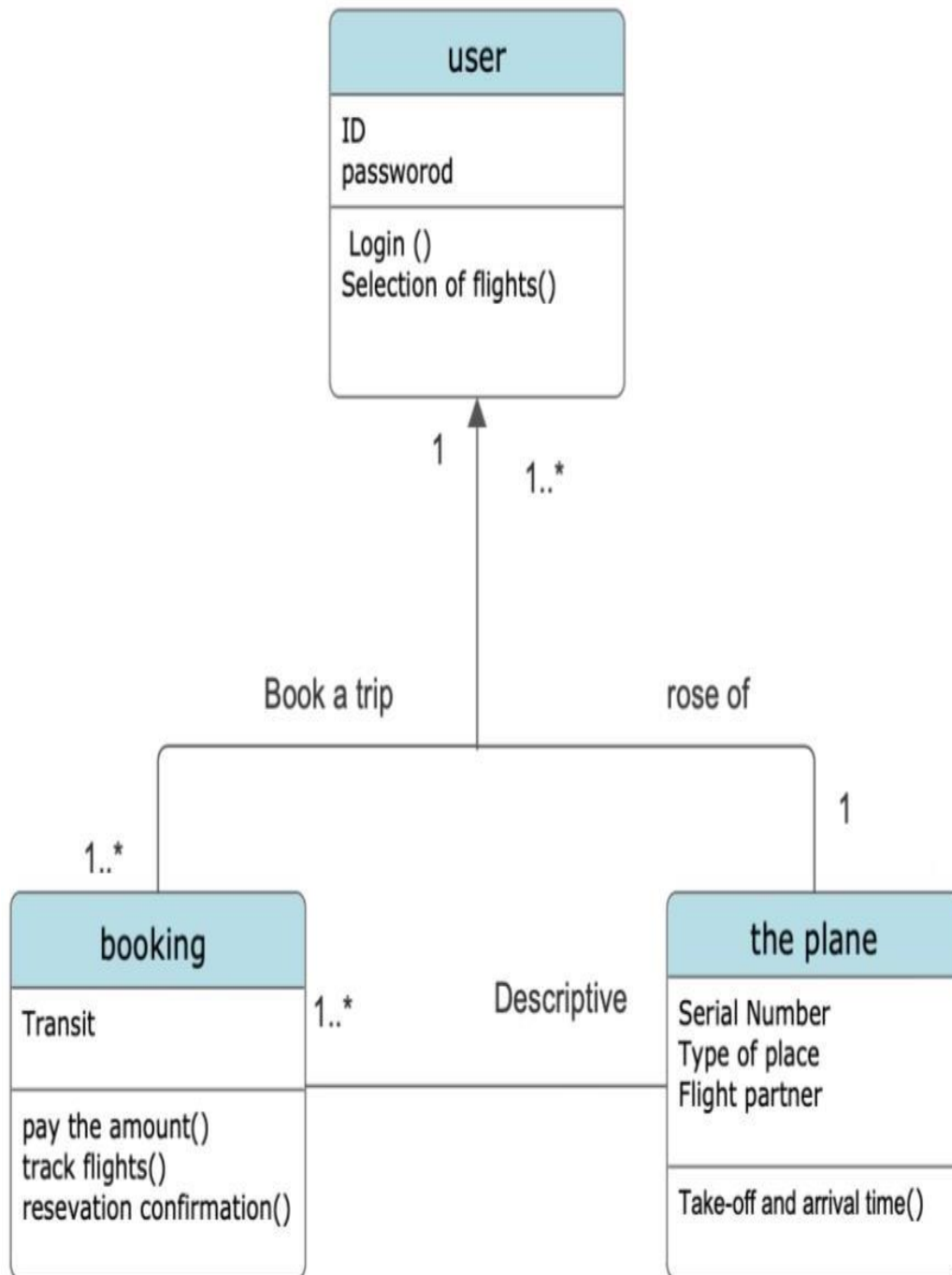


3.2.3 Sequence diagram: explains how to log in and verify. The information is correct as the user enters his ID and password on the site

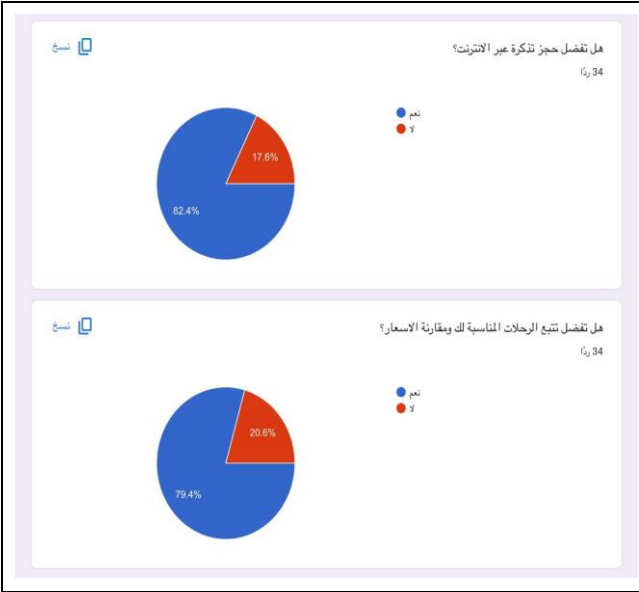


3.2.4 Class diagram: There are exchange relationships between the user, Booking, and the plane, which is

There is a relationship between the user and Booking, a one-to-many relationship, which is called Book a trip, and the second relationship is between Booking and the plane, which is Descriptive, one-to-many, and the third relationship is between the plane and the user, which is rose of, one-to-many.

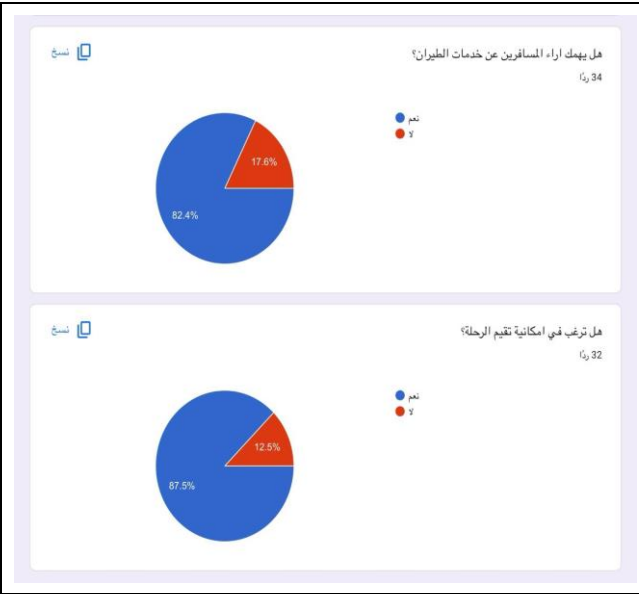


3.3.1SURVEYS FOR
GATHERING
:REQUIERMENTS



In this part of the survey, we want to know the number of people who prefer booking tickets online. Based on this graph, as you can see, the majority of respondents, 82.4%, answered "yes" and prefer online booking, while the people who answered "no" accounted for 17.6% and prefer traditional booking

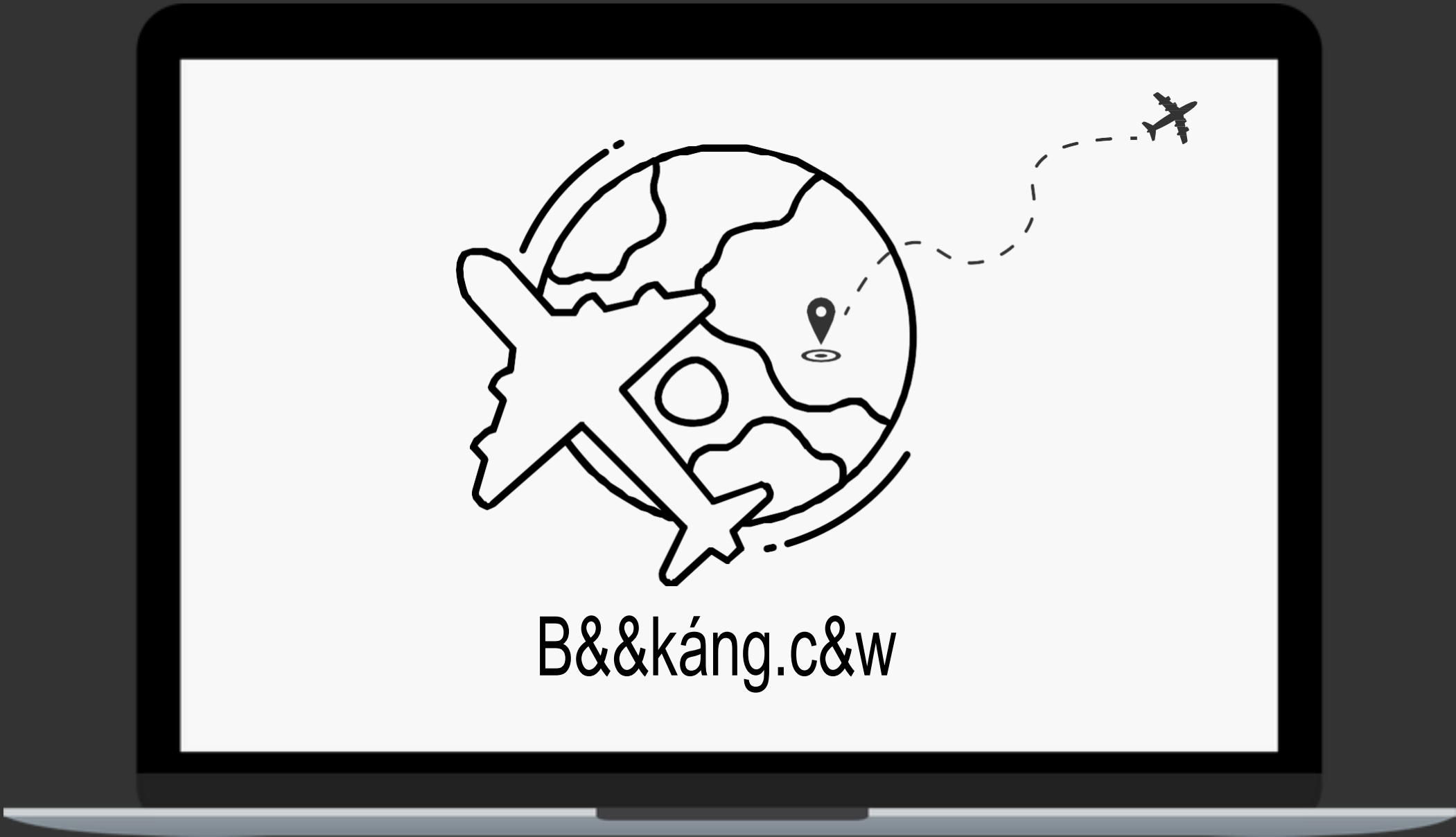
In this part of the survey, we want to know the number of people who prefer tracking suitable flights and comparing prices. Based on this graph, as you can see, the majority of respondents, 79.4%, answered "yes" and prefer tracking flights and comparing prices, while the people who answered "no" accounted for 20.6% and do not prefer it



In this part of the survey, we want to know the number of people who are interested in travelers' opinions about airline services. Based on this graph, as you can see, the majority of respondents, 82.4%, answered "yes" and are interested in travelers' opinions, while the people who answered "no" accounted for 17.6% and are not interested

In this part of the survey, we want to know the number of people who would like the option to rate the flight. Based on this graph, as you can see, the majority of respondents, 87.5%, answered "yes" and would like the option to rate the flight, while the people who answered "no" accounted for 12.5% and do not prefer it

3.3.2 PROTOTYPE FOR GATHERING REQUIERMENTS.





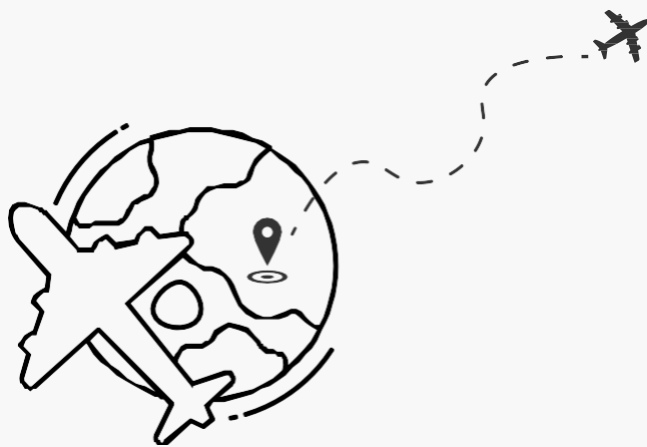


FROM NEW
YORK TO RIYAD

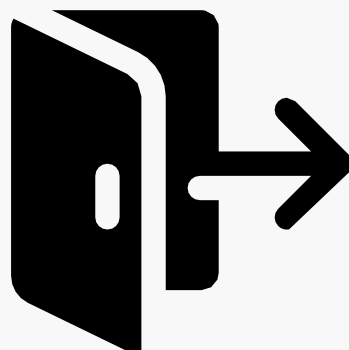


Collected





LOG OUT



REFERENCES:

<https://www.booking.com/index.ar.html>

<https://app.smartdraw.com/dashboard.aspx?startLocation=0&flags=128>

https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwj96uZvYCEAxV8TaQEHUd3CLAQFnoECA8QAQ&url=https%3A%2F%2Fwww.google.com%2Fforms%2Fabout%2F&usg=AOvVaw3YeylwRNEI_R16bck5tVcs&opi=89978449