

Development Of Enterprise Application 1

Group Assignment

Group project zip file link:-

https://drive.google.com/drive/folders/1hYd9g9I_Bm9VhRiriMpAdgFXRmtS5D2a?usp=sharing

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Introduction

Phoenix Airline PVT is an airline service that gives a best service for customers. We were assigned to develop that online flight booking system for better customer engagement and to ensure customer satisfaction. In this small online flight booking system has processes such as user management, flight management, ticket management, done manually. In Phoenix Airline . There are 3 types of users: Staff, Users (client), and the Admin. Also there are 2 grades of staff members as grade one and grade two. But End of December 2019, COVID 19 new virus was found in Wuhan, Hubei, China. The virus has spread globally since its discovery. Like other countries, we are facing many challenges with COVID 19. The number of COVID 19 victims is increasing day by day. Therefore, public gathering is not so good.

To overcome those challenges they required a website. So we are planning to create a website for Phoenix Airline PVT to do their daily works easily and smartly. Users and staff can create their own accounts but for the security of airline service staff accounts must be approved by the admin and admin have the chance to add the staff members to the system. There are some features as mentioned in the above grade one and grade two staff members. Grade one staff members can update, delete information while grade two staff members can view information and add new flight details and also we have given the access to staff members for above tasks. And Phoenix Airline PVT wants to monitor every activity of the staff and users for their security reasons.

When adding the ID or Email, they can monitor every activity of staff and users. There are dashboards for admin, staff and users. The admin dashboard can only be accessed by the admin, only staff members can accessed the staff dashboard, and the client's dashboard can be accessed by users and staff members also. As well as Grade one staff members can adding, updating, deleting flights, and checking and updating or deleting ticket information, checking the user's accounts and blocking or updating accounts and providing information to users via internal chat. We are given the access to grade one staff members to complete above tasks. And for users, they can view flights and filter flights on a particular date and destination point. They can also reserve their seat and check their reservations. They can update their profiles and reservations, they can search flights easily. So as a group we are planning to build up a unique website for Phoenix Airline PVT to overcome their challenges and conflicts and to manage a simple online flight booking system with a grand design structure to achieve their objectives in near future.

Objectives

Goal:

Providing the required documents to the users without delay and accurately, minimizing the cost and the time on those activities.

Objective 1: To maintain an accurate and clear database of the details relevant to users.

Objective 2: To perform activities more efficiently.

Objective 3: To view users' personal information easily and quickly

Provide an excellent customer service

To satisfy the customers by providing good customer service and thereby attracting customers to the airline service and developing the airline service is a main objective of phoenix airline service.

Maintaining commercial sustainability

Achieving commercial sustainability to develop the business and add to the country's gross national income is an objective of Phoenix airline service.

Scope of the project

Achieving excellent customer service by Making a website which mainly focused on customer satisfaction such as providing current flight information on right time, a clear flight schedule to ensure customer's journey in safe, providing a space to clarify there seat information and change the current status by customer's need, creating a space to make an user account which they can directly connect with staff to avoid any conflicts with their flight information.

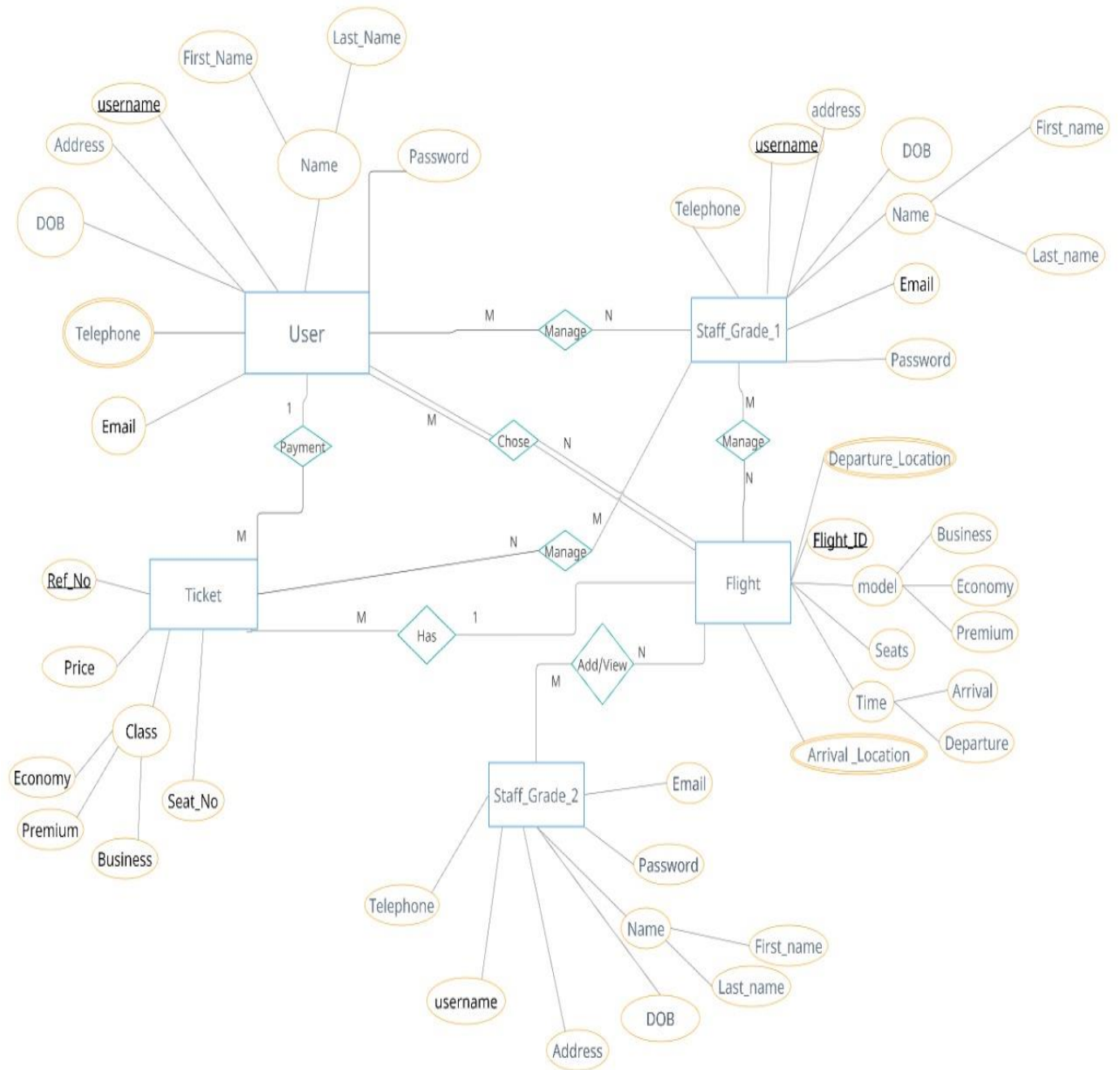
To enhance the effectiveness and efficiency of the system we made user accounts for Admin, Staff (grade 01 & 02) for users separately which can be monitored by admin. The admin can login to the system and check the accuracy of the data and can monitor errors and can inform the staff members to correct them before the system works weak. By creating separate accounts for the management, it will be easy to make this website more efficient and effective. Covid-19 situation made the airline industry to take a huge turn to change the usual way of managing airlines and it also effected to the whole world in just few days. Phoenix airlines is always aware of covid-19 protocols and guidelines which they ensure customer's health and other key factors as well. We will showcasing those protocols on the website therefore people can get more specific information about flight destinations according to this situation , flight schedules changes in quick seconds.

Aim of our project is to do Business process automation with facilities.

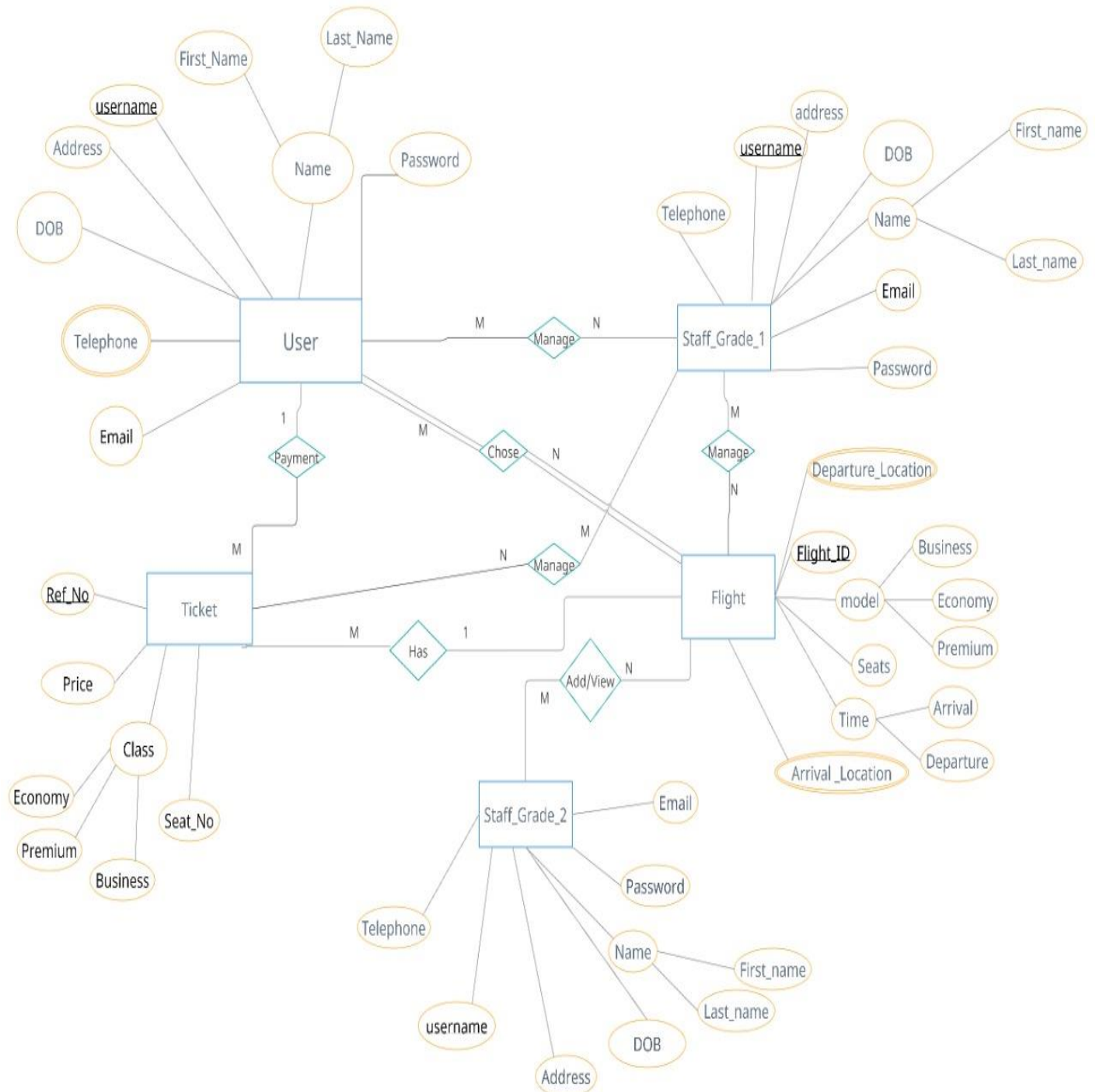
Ex: - In this project, we tried to computerize various processes regarding our Flight Booking System.

- In the computer system, the user can fill out various forms and easily generate copies of such forms at a time. So, it's save our time.
- Assist the staff in tracking the effort expenditure on the respective workplaces.
- Automation can increase productivity through efficient use of resources.
- This system generates various types of information that can be used for different purposes.
- It takes into consideration user requirements and build it accordingly.
- Easy to understand for users and operators.
- Easy to operate and expand system.

ER Diagram



Class Diagram



3.1. Technologies Used

- Java server pages (JSP)

Java server pages are more relaxed and less complicated when dealing with html logic when opposed to servlets.

Java server pages are dynamic pages in java too.

By design, Java server pages are pure HTML but also support java code.

On top of the java servlets API, Java server pages are created.

JSP (java server pages) also has access to all the popular enterprise java APIs, like the JDBC, JNDI, EJB or so on, including servlets.

The JSP pages can be used in tandem with the servlets handling the business logic, the model endorsed by the Java servlet template engines.

3.2. Tools and Platforms

- Connector and Driver

The driver class of the database management system(dbms) needs to be uploaded into the java. Database management system has its own separate driver class which has been created so that the DBMS can connect to the java. If for some reason the driver class cannot be loaded then the system cannot communicate with database. After successfully loading the driver we use the MYSQL connector to connect to the database

3.3. Tools and Platforms (Software and Hardware Specifications)

Software Requirements:

Name of the component	Specification
Operating system	Windows 10
Language	Java 2 Enterprise Edition
Database	MYSQL
Browser	Chrome
Web server	GlassFish Server 4.1.1
Software development kit	Java JDK 1.8
Scripting Language Enable	JSP(java server pages)
Database JDBC Driver	MYSQL Jconnector

Hardware Requirements:

Name of the component	Specification
Processor	Intel Core™ i5-8250U CPU @ 1.60GHz
RAM	8.00 GB
Hard disk	1 tb
Keyboard	122keys

Samples of the Developed System

1. Registration

Users get registered by providing their desired email, password so and so necessary details. Details of each users along with their email and password is saved permanently in the database.

User Registration:-

011 345 6781

phoenixairline@gmail.com

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CHECK NOW

Phoenix
Airline

Home

Flights

About Us

Contact

Login

Register

Paduma Hithami

User Registration

First Name

Last Name

E-mail

Address

Date of Birth

mm/dd/yyyy

Telephone

Username

Password

Re-Type Password

Already have an account? [Log In](#)

REGISTER

Phoenix
Airline

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global airlines to serve all six continents

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phoenixairline@gmail.com

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Snapshot 1 (sign up)

Staff Registration:-

011 345 6781

✉ phoenixairline@gmail.com



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About Us

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Register ▾

Paduma Hithami

User Registration

First Name

Last Name

E-mail

Address

Date of Birth

Telephone

Username

Password

Re-Type Password

Already have an account? [Log In](#)

REGISTER



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2. Login Page

After providing the correct email and password, the member logs in to the Ejustage home page. If member enters a wrong email and password then they block their account temporary and after some security verification they will able to access their account.

011 345 6781

phoenixairline@gmail.com

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Phoenix
Airline

HomeFlightsAbout UsContactLoginRegisterPaduma Hithami

Login

E-mail

Password

Don't have an account? [Register](#)

LOGIN

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Snapshot 2 (Member Login)

3.Home Page

After providing the correct email and password, the user automatically redirect to the our Airline home page. There are some functions here the user can select. Each student can select and login to their particular faculty. In addition to that user can select following functions.

- About us (snapshot 3.1)
- Contact us (snapshot 3.2)
- Flights (snapshot 3.3)
- My Profile
- Chat (snapshot 3.4)

011 345 6781
phoenixairline@gmail.com
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Phoenix Airline
Home Flights About Us Contact Login Register Paduma Hitihami

Phoenix Airlines

Travel makes one modest. You see what a tiny place you occupy in the world.

Booking Flights

Departure

Return

From

To

Passengers

Class
ECONOMY/PREMIUM ECONOMY

BOOK NOW

ABOUT US

Phoenix Airlines

Phoenix Airline is proud to be one of the youngest global airlines to serve all six continents, and thanks to our customers' response to our offerings, we are also the world's fastest-growing airline. We connect more than 130 destinations on the map every day.

Economy/Premium Economy Class

Premium Economy Class

Business Class

WHAT WE DO

Discover Our Services

In-Flight Services

Experience our authentic Phoenix hospitality in everything we do.

Travel Products & Services

Products to add to your travel experience ... on the ground or in the air!

Special Assistance

Whether you're flying with a child, traveling with an assistive mobility device or trained service animal, or moving to Phoenix with your pet, we're

Snapshot 3 (Home Page)

4. Flights

011 345 6781

phoenixairline@gmail.com


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Home

Flights

About Us

Contact


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Register ▾

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Flights

Home > Flights



Colombo to London

Economy from 650\$ Premium from 950\$ Business from 1850\$

Flight ID: SL 066,Airbus A230-400

Time: 18.50 GTM

Travel period: 8h 30m (non-stop)

Depature : Bandaranayake,colombo

Arrival : Heathrow London


Operated by: Phoenix airways

MORE DETAILS

1

2

Next →



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Snapshot 3 (Home Page)

5.About Us

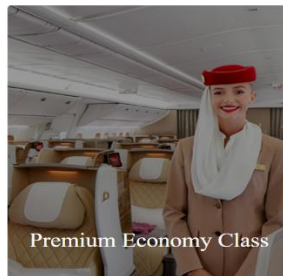
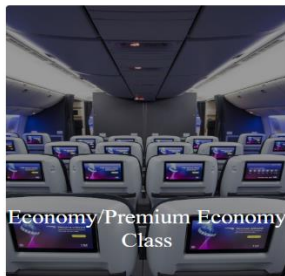
About Us

[Home](#) > [About Us](#)

Welcome to Phoenix Airlines

Phoenix Airline is proud to be one of the youngest global airlines to serve all six continents, and thanks to our customers' response to our offerings, we are also the world's fastest-growing airline. We connect more than 130 destinations on the map every day.

- ✓ Discount available in any packages.
- ✓ Free Wifi.
- ✓ 100% safety priority.



OUR GALLERY

Discover Our Work



Phoenix Airline is proud to be one of the youngest global airlines to serve all six continents



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858/2, Colombo, Sri Lanka.

6.Contact Us

☎ 011 345 6781

✉ phoenixairline@gmail.com



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Contact Info

contact us if you have any questions.

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Email: phoenixairline@gmail.com

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SUBMIT NOW



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7.Check Reservation

Check Reservation



Colombo to London

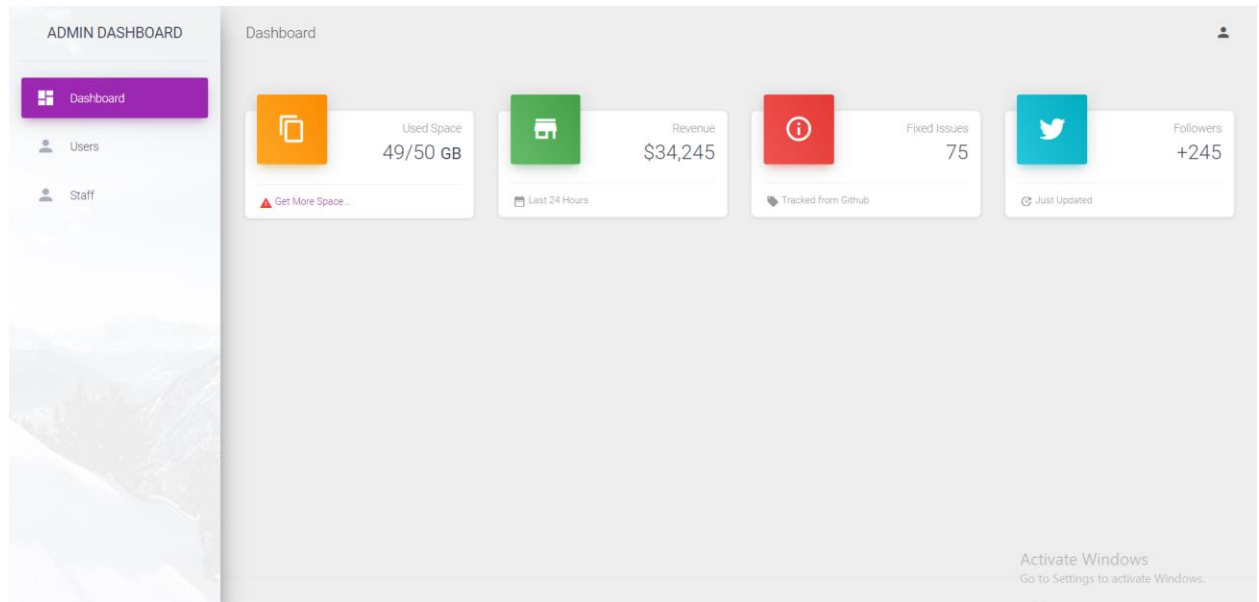
159\$

Flight ID:	SL001348
Departure:	2021.03.01
Return:	2021.03.10
Class:	Business
Services:	Wifi, Television, Bathroom

Edit

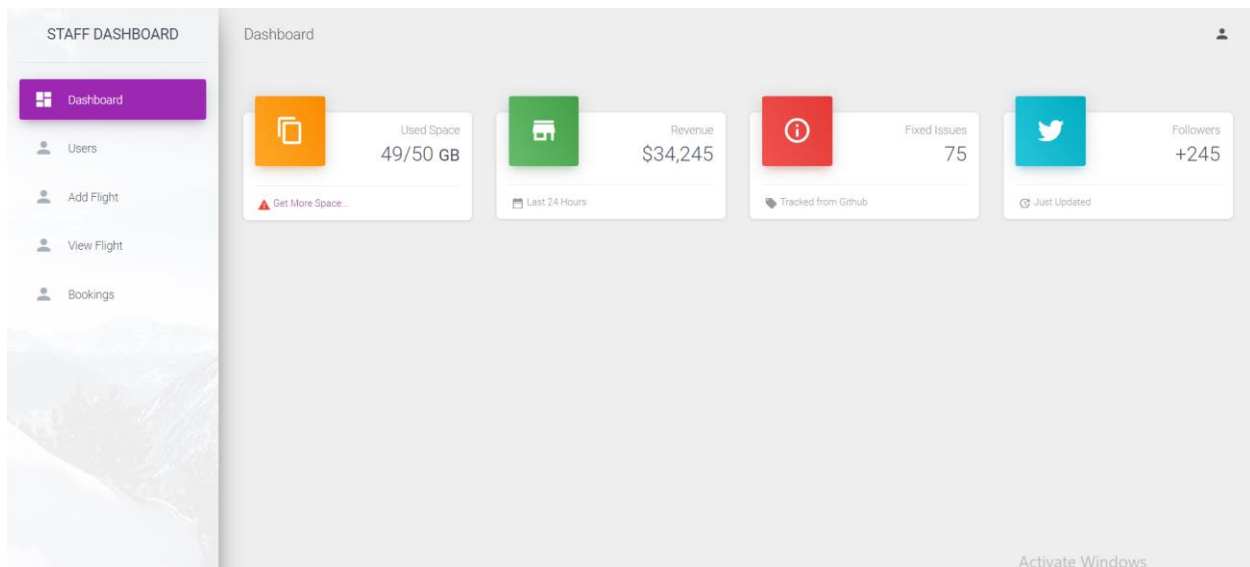
8.Admin Dashboard

The Admin has full power to approve members, remove members or make members as admin. And also admin can upload/delete flight details, blocked account, add staff members. In addition to that admin can view/delete details(), view posted items, send messages, and change password.



9.Staff Dashboard

There are 2 grades of staff members. Grade one and Grade two. Only Grade one Staff members can update, delete some information. Grade two staff members can view information and only add new flight details. Grade One staff members are responsible for adding, updating, deleting flights and checking and updating or deleting ticket information, checking the user's accounts and blocking or updating accounts, and providing information to users via internal chat.



Conclusion

Our project is just a modest undertaking to meet the needs to handle its project work. several people, have also embraced helpful coding. This package would prove to be a strong package to fulfill all school requirements. The aim of software planning is to provide a framework work that allows the manager to make reasonable estimates made at the start of the software project within a limited time frame and should be updated regularly as the project progresses. To conclude the project successfully we have made effort on these points. We describe the scope of the project and aim in detail.

We examine the problems of existing system and develop the proposed system more effectively. We described about the technologies and system specifications in details. We describe the operations and process of each phase including the screen shots. We designed the interfaces more user friendly and interactive. Finally we implemented and tested the system.

Phoenix Airline is an organization which provides world class airline facilities for the customer. We were assigned to complete a website which meets company's objectives and goals such as providing a qualitative service for the customers with effective and efficient operations, achieve and maintain commercial sustainability, expanding working hours, maximizing cooperation and

mutual assistance among parties etc. We went through policies, criteria's and methods to make this unique website, which provided by the lecturers.

We wanted to ensure the website itself works on without any errors or issues also we wanted to make this site according to international flights guidelines therefore we read a lot of articles and explored to ensure how operations really works, how the management controls throughout the application. We made this website to achieve companies objectives and goals and to overcome challenges they were been facing throughout the years so we hope this website will ensure all those conflicts will not be effected anymore and This will help to meet their end goals in near future.