



**Faculty of Computing**  
**Development of Enterprise Application I**  
**Group Assignment**

INDEX NUMBER	STUDENT NAME		
22841	U. B. M. H. E. M. Balasuriya <i>Amirah</i>		
22702	C. M. D. N. Seneviratne <i>Kewin</i>		
23686	S. T. Kumasaruru <i>Sanku</i>		
22706	A. S. Hendavitharana <i>Athi</i>		
22819	C. R. Wedage <i>C.R. Wedage</i>		
23910	RMA Pramodya <i>Shani</i>		
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MODULE LECTURER	Mr. Chaminda Wijesinghe	SUBMISSION DATE	2022.10.08
<b>Declaration:</b> I certify that I have not plagiarized the work of others or participated in unauthorized collusion when preparing this assignment.			
Signature of the Group Leader:			Date: 2022.10.08
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GRADE / MARK			
COMMENTS			

# Pheonix Airlines PVT Ltd.

Flights Reservation Platform



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## 1. INTRODUCTION



According to the given scenario we've created a flight reservation platform which is known as Phoenix Airlines PVT Ltd.

This platform is especially designed for three main user categories,

- Admin Users,
- Staff Users,
- Regular Users.

From this platform, people who need to reserve flights can search for the relevant flights and their information as well. Then if they are comfortable with the time periods and the flights which are displaying, they can reserve them. According to the given scenario there should be two types of Staff groups, Group 01 & Group 02. Staff members can update or delete the flight details. And also staff members can add new flights as well. We've created a similar platform to the staff users but the features are vary according to the mentioned scenario. Admin users will be able to monitor all the activities of the Staff members and the users.

We've designed this platform where the users could get a better user experience throughout their browsing period. Otherwise, if the users are not satisfied with their experience they will not use further our application.

We've thought to displaying some relevant information as a summary to the admin as well as the staff, because then they will be able to easily manage the users and the applications. Even though they are from the system's side we have to make a better experience for them as well because then the workload will be reduced as well as they can perform the tasks more efficiently.

## 2. ENTERPRISE APPLICATION STRUCTURE

Our enterprise application currently contains following main pages.

- Home
- Admin - Dashboards, Profile
- Staff - Dashboards, Chats, Profile etc.
- User - Dashboards, Chats, Profile etc.
- Login Page

Pages with special features

- Enable chat feature between staff and user
- Search and filter the flights as the user's requirement
- User account management (for staff)
- Insights (for admin)

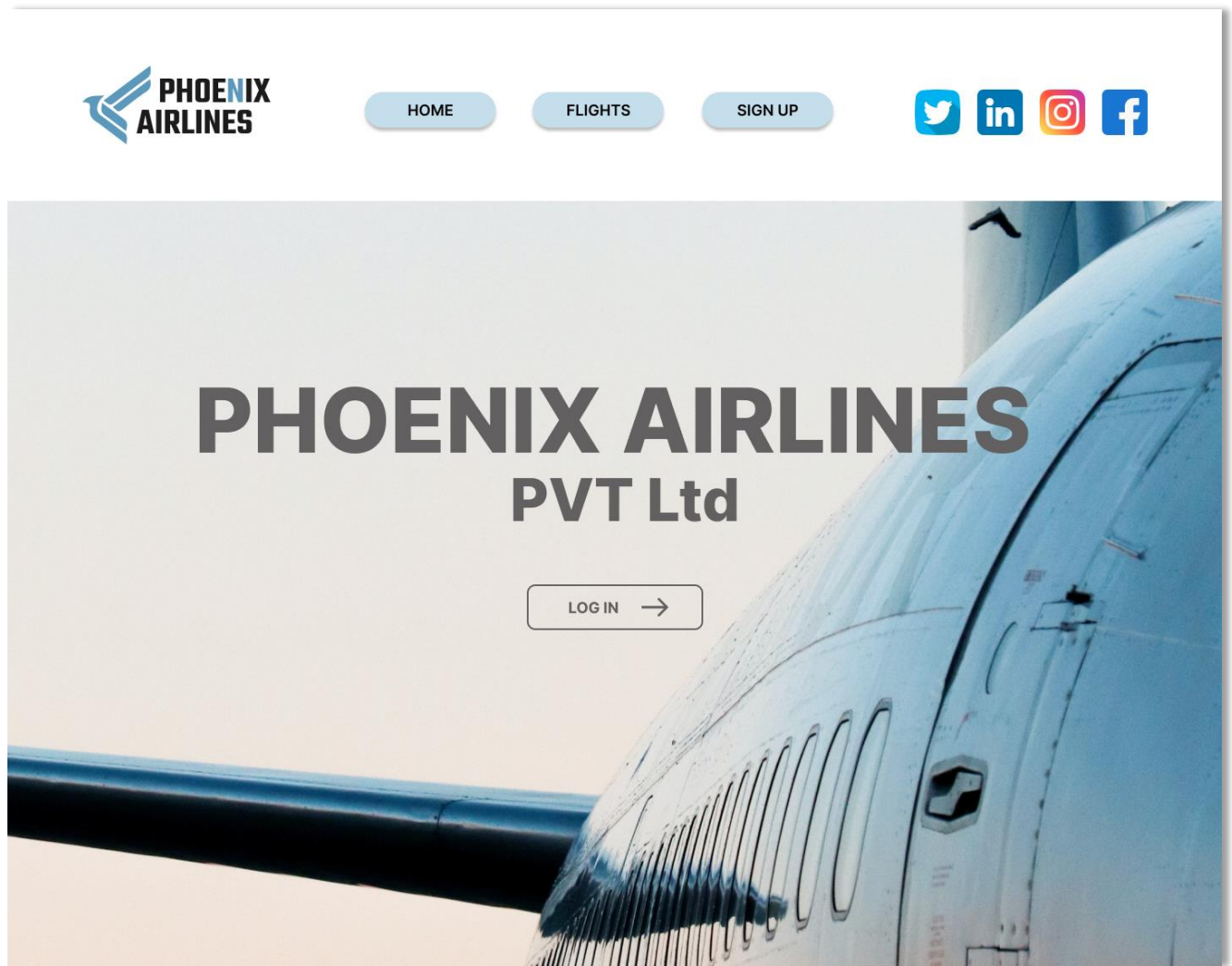
Site Integrations

- Maria DB Server
- JSP and Servlets
- Social Media Buttons
- Git-Hub Repository

### 3. DESCRIPTION ABOUT EACH PAGE

#### 3.1. HOME

This is the first visible content of our enterprise application.



## FIND YOUR DREAM DESTINATION



### PARIS

PRICES FROM 554000 LKR

FLIGHTS

EXPLORE



### HAWAII

PRICES FROM 611000LKR

FLIGHTS

EXPLORE



### BALI

PRICES FROM 654000 LKR

FLIGHTS

EXPLORE



### SANTORINI

PRICES FROM 374000 LKR

FLIGHTS

EXPLORE



### SWITZERLAND

PRICES FROM 781000LKR

FLIGHTS

EXPLORE



### JAPAN

PRICES FROM 654000 LKR

FLIGHTS

EXPLORE

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## CONTACT US



0171 459 6887



phoenixairlinespvt@gmail.com



No. 29, Millenium Cresent,  
Colombo 7,  
Sri Lanka



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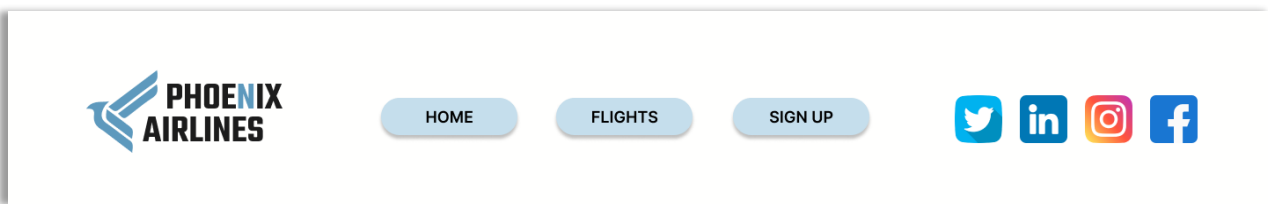
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Here is our main navigation bar. From this feature we tried to simply navigate the users of our website. We tried to make it less complex because then users don't need an extra courage to visit here and there in our website.

Through this navigation bar users can easily signup and also connect with our social media platforms as well. In these days, social media is the key communication medium among the young generation. Because of that we've created all those social media accounts. From that, our main objective is to reach more people with our enterprise application.

The shadow effect is not in the navigation bar, we've used that because otherwise the navigation bar wouldn't display clearly because of the white background.



### 3.2 ADMIN

According to the given scenario, admin is the one who can see and monitor all the activities of the users and staff members. Admin have the authority to manage and access all the features in the application because the total control of the application is given to him.

For admin, we've created two special pages such as Dashboard and Insights. The features and the tasks which are assigned to those three pages will be described as follows.

- **Admin's Dashboard**

In Admin Dashboard, we've thought to display the daily update about flight reservation because then admin doesn't need to navigate here and there to see the summary of each day. From there we have displayed the no of departed flights and no of flights which are fully reserved and available to be reserved.

From that admin can be easily figure out the no of remaining seats for the passengers. By knowing that information either he could reserve the flights for users or declined the request of reservation.

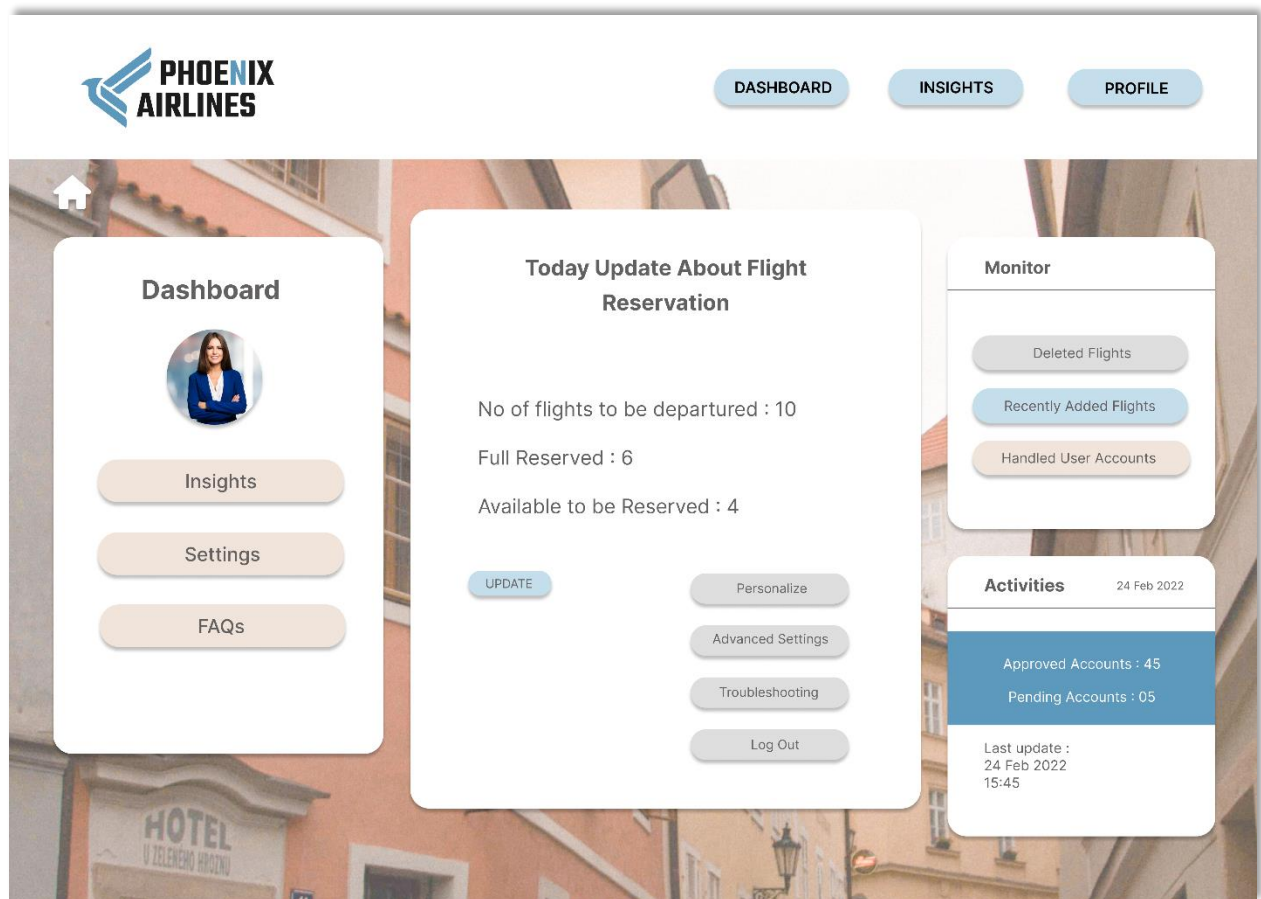
And also we've displayed the overall activities in the dashboard. From that admin could see the approved accounts and pending approvals daily. Then he could manage them efficiently. Otherwise admin may not have idea if there a lot of accounts which seek for the approvals or there isn't any.



We've created some special features to monitor the deleted and recently added flights as well as handled user accounts.

From the Dashboard admin can update or undo the information, personalize, access advanced settings and FAQs, access insights, troubleshoot or else logout from the system.

You can see the interface of Admin's Dashboard as follows.



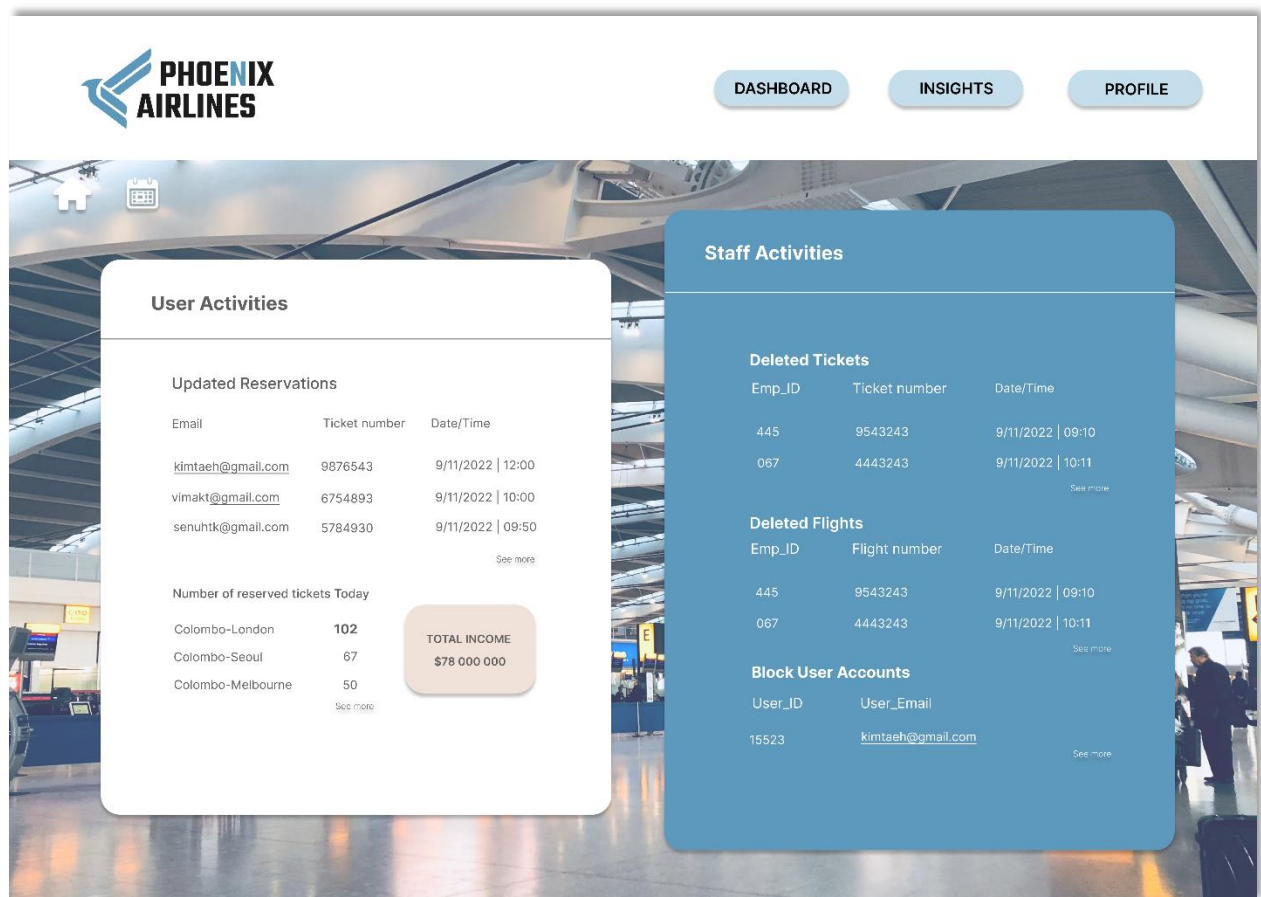
- **Insights**

From the insights admin can view a summary of the activities done by users and staff members. Admin will be able to that, who have deleted this flight details and who have added these details etc.

As well as recently reserved ticket details of the users and the information of those users will be displayed in this relavent page. And admin will see the total tickets which have been reserved in each day and specially the total income of the day at that particular moment.

We've added those features for manage the admin's workload easier and efficiently.

From the following page we've presented the Insights page.



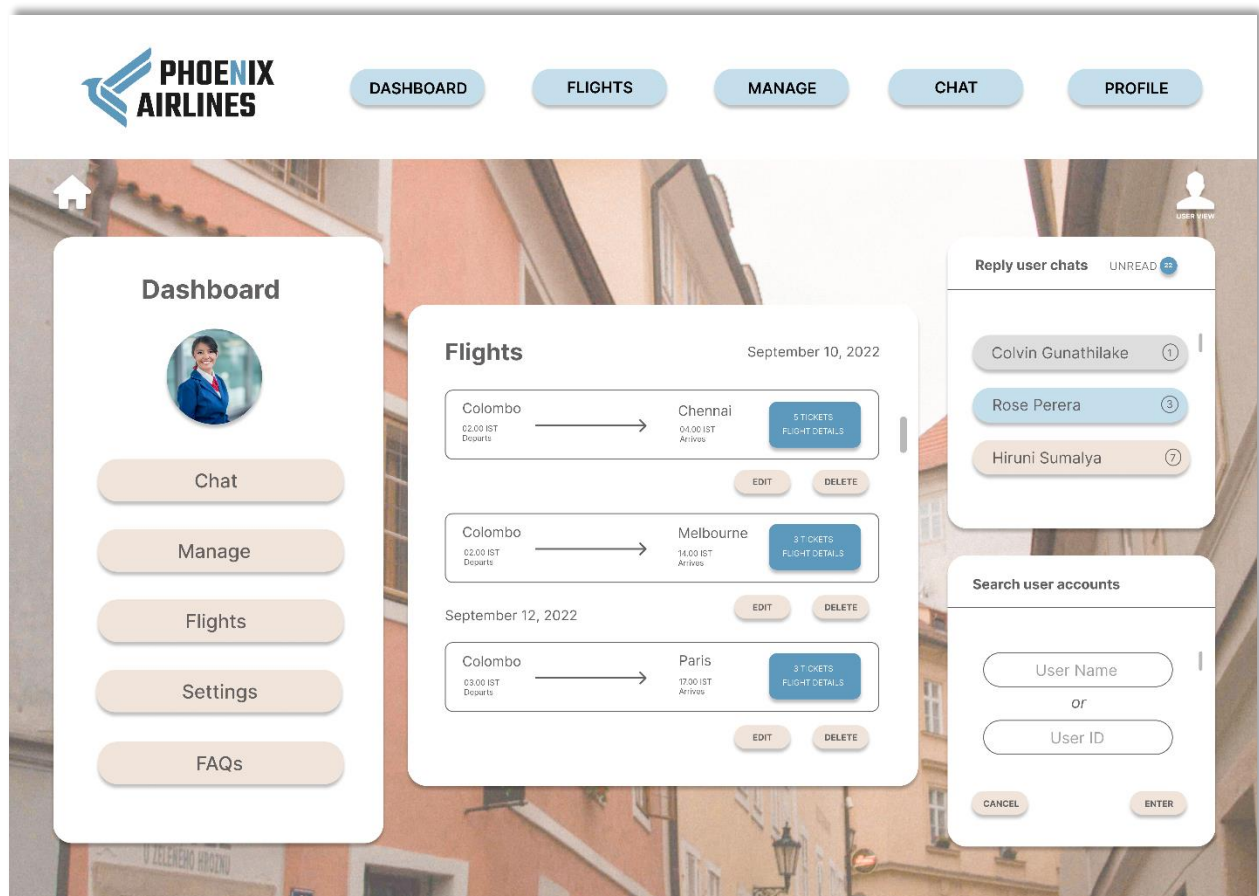
### 3.3 STAFF

According to the given functions in the description there should be two types of staff members in this application which is known as Group 01 and Group 02. Group 01 staff members can access some advanced functions than the Group 02 staff members. But we have created a similar pages to both two of the groups and they can select their particular group. Then the features which are relevant to those groups will be displayed. We have created five main pages for staff members such as Dashboard, Profile, Flights, User Account Management and Chats.

- **Staff Dashboard**

From the dashboard, staff members can see the details about the today's flights and also they can reply to the user chats as well. Specially staff members can search for users accounts through their dashboards. We've provided that function because then Staff members could easily monitor the activities of the users.

Staff members can navigate here and there through the buttons which we have created in the dashboard such as Chats, Settings, User Account Management, Flights, Settings and FAQs etc.



- **Staff Flights Page**

According to the given scenario some staff members have the authority to add new flight details to the system. But it has to be 100% accurate. Otherwise this whole application will be fail.

From this page, staff members can easily navigate to the specific functions which have given in the scenario. According to the staff groups, the funtions which are displaying will be vary. And also, from here the staff members can easily access their profile page as well.

**PHOENIX AIRLINES**

DASHBOARD FLIGHTS MANAGE CHAT PROFILE

### Flights

September 10, 2022

Colombo 02:00 IST Departs	→	Chennai 04:00 IST Arrives	5 TICKETS FLIGHT DETAILS
		EDIT	DELETE

Colombo 02:00 IST Departs	→	Melbourne 16:00 IST Arrives	3 TICKETS FLIGHT DETAILS
		EDIT	DELETE

September 12, 2022

Colombo 03:00 IST Departs	→	Paris 17:00 IST Arrives	3 TICKETS FLIGHT DETAILS
		EDIT	DELETE

### Add new flight

Departs from:

Arrives to:

Date:

Time:

Class:

In flight service:

ADD

- **User Account Management**

Anything in this world will not last longer, if it is not taking care of. Because of that we need some specific features which can gives us to manage the users and user activities of our system. Because of that we've created this page, which helps staff members to summarize and manage the user activities.

From here, staff members can easily search for user accounts by either entering their username or userID. And also from this page, staff members can see the recent flights details as well the recently updated accounts of the users.

According to our rules and regulations, if someone have worked against that, the staff members have the authority to block their account. Then all the blocked user's details are also displaying over there. We've created this feature is because it's very important to keep your rules and regulations steady, when it comes to the international level.

**PHOENIX AIRLINES**

DASHBOARD FLIGHTS MANAGE CHAT PROFILE

**Search User Accounts**

User Name

or

User ID

CANCEL ENTER

**Recents**

UID	Name
234G	Hezel Fernando
235G	Dasuni Megna
356G	Emma Heesters
456Y	Selena Gomez
875N	Kolin Mazoor
875K	Dilshan Maduvantha

**Recently Updated Accounts**

UID	Name
Today	
234G	Hezel Fernando
235G	Dasuni Megna
356G	Emma Heesters
456Y	Selena Gomez
875N	Kolin Mazoor
875K	Dilshan Maduka
Yesterday	
356U	Nishul Fernando
363K	Dasuni Achala
754D	Kutuni Heesters
764L	Gwen Nirasha
757J	Mac Fertil

**Blocked Accounts**

UID	Name	
Today		
254G	Megna Siliya	UNBLOCK
255G	Sachini Udara	UNBLOCK
356G	Kusum Perera	UNBLOCK
446Y	Nirosh Malaka	UNBLOCK
855N	Aparna Jaya	UNBLOCK
875K	Sarini Shalya	UNBLOCK
Yesterday		
556U	Kavya Thisara	UNBLOCK
563K	Chores Sted	UNBLOCK
854D	Pathum Pavan	UNBLOCK
754L	Motio Raize	UNBLOCK
787J	Polando Mark	UNBLOCK

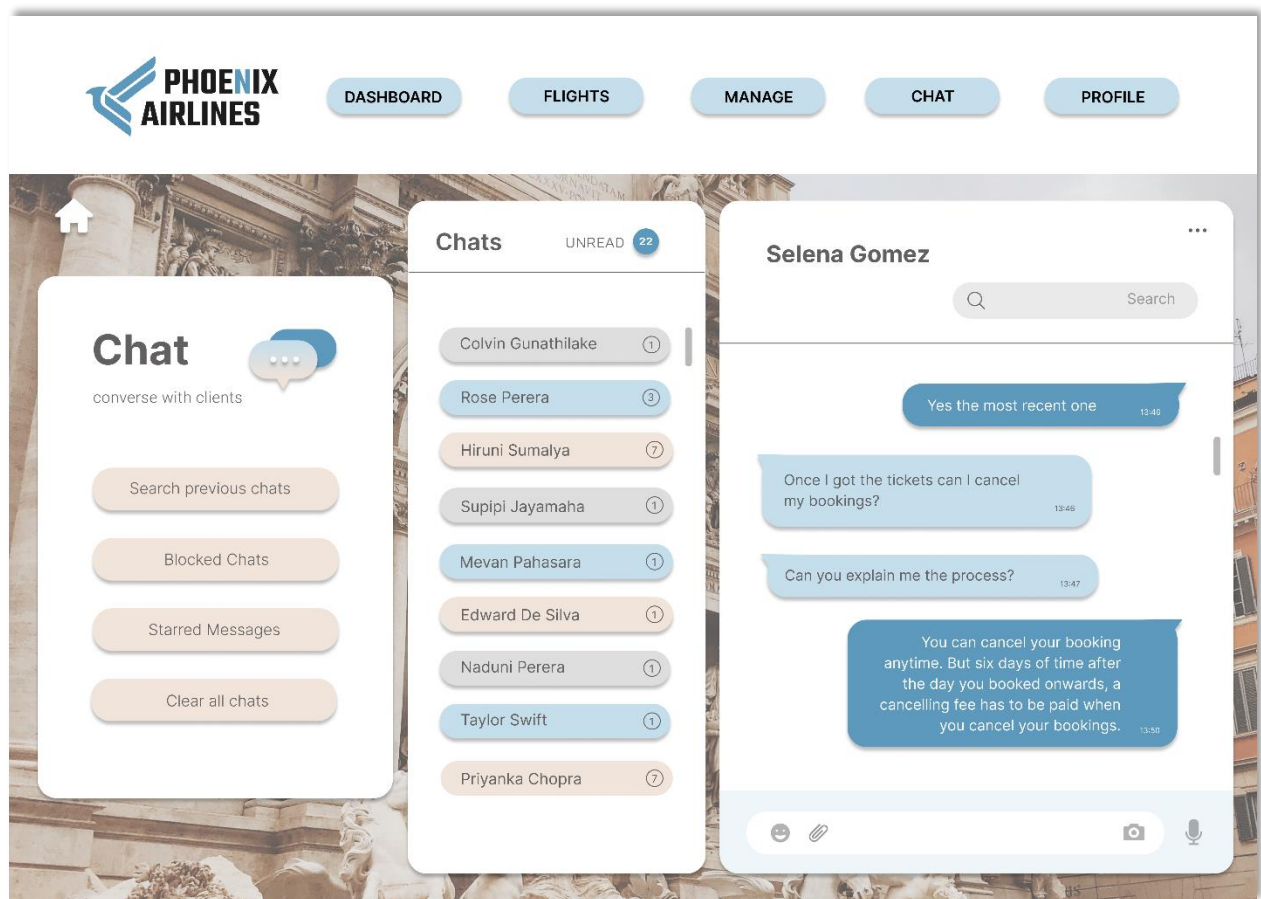


- **Staff Chat**

In the given scenario, you were asking to enable chat features directly between the Staff members and the Users. If the given FAQs are not enough or if they are not satisfying the users, they will try to ask questions directly. For that they can use their chat panel and staff members will be able to give answers to those particular questions through this panel.

For this page we've introduced the main features which we can see in any kind of a messenger tool. We have done that to make this part more easier to the staff members and users.

Staff members can see their recent chat lists and they can open some specific chat and reply. In the left corner of the page you can see there are some advanced options are available. From there staff members will be able to search for their previous chats, see the starred messages, messages from the blocked users and as well as clear the all chats.



- **Staff Profile**

For each staff member, there is an approved account is available, whether they are belongs to group1 or grioup 2. By clicking the “Profile” button, staff members will be redirected to this page which is showing below.

In here they will be able to see all the personal details about themselves, which have entered when they make a their account. And also they can recheck whether all the details are accurate or else staff members can easily edit their information from here.


And also, each staff member can see their recent activities about the updating and deleting flight details. We have gathered them here because if there are something wrong with the details which have entered to the system, they can simply see that whether they have done this or not.

As advanced features, from here staff members can personalize their profile, access FAQs, or logout from the system etc.

**PHOENIX AIRLINES**

DASHBOARD FLIGHTS MANAGE CHAT PROFILE

**Profile**



Edit Info

Name Sathmi Gunadasa  
Staff ID 456G  
Grade A  
NIC 775567800  
Email sathmigun@gmail.com  
Address No. 77,Pitipana, Homagama  
Phone 0718979666

**Deleted Flights**

September 9, 2022

Colombo	London	03:15	12:35
Katunayake	Seol	04:15	11:35

**Updated Flights**

September 9, 2022

Flight Number	Updated Column	Value
296870	Arrival time	22:33
879847	Destination	LAX

Personalize  
Help  
FAQs  
Contact  
Report  
Log Out



### 3.4 USER

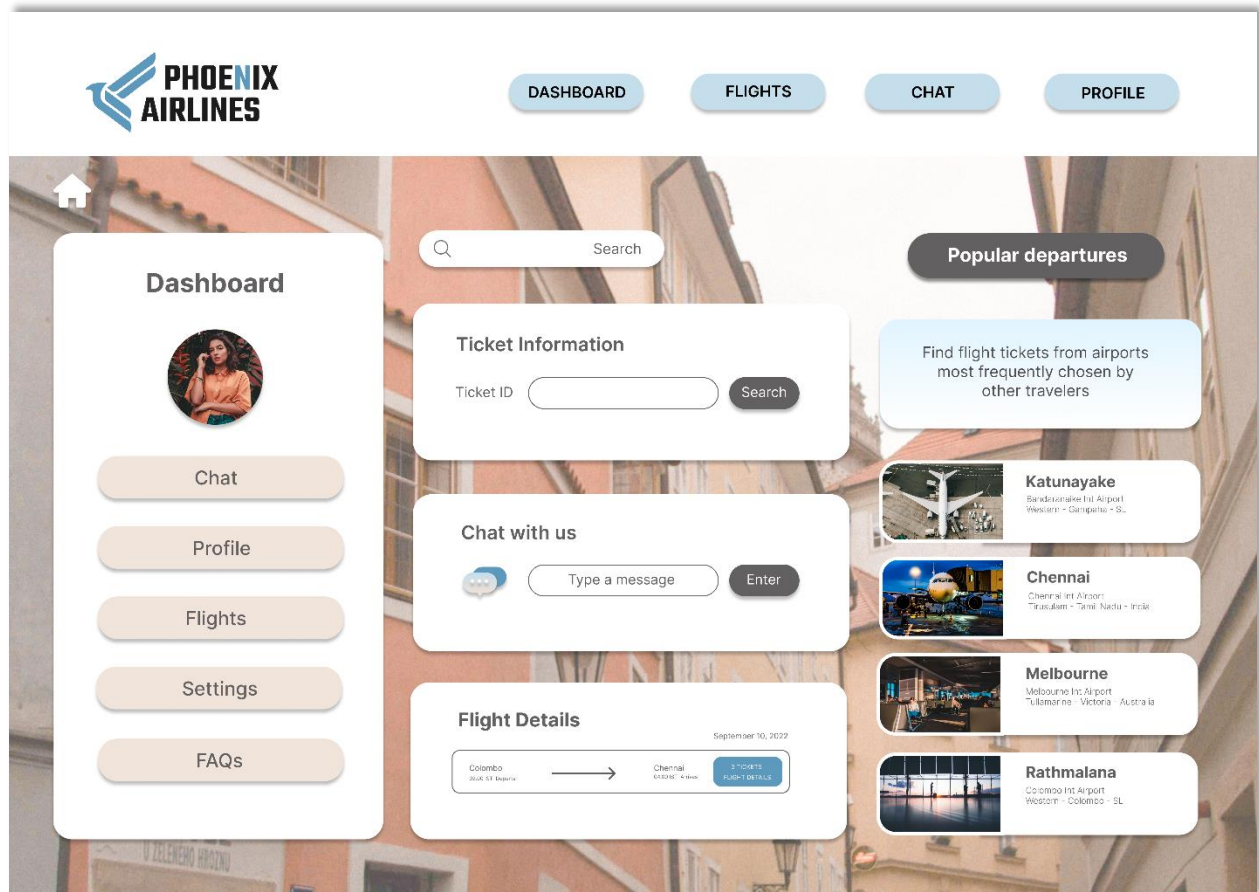
The main audience of this whole system is Users. There are no specific categories of the users but anyone who is interested on flying abroad can use this system for flight reservation. We've tried to introduce all the main functions which are expected by the users, as well as we've introduced some new functions.

We've created this whole system in a way where the users could get a better user experience throughout their session period. That was our main focus because if the users are satisfied with their experience, if they felt like this system can cover all the expected requirements of them, they will definitely use this system further and they'll recommend this system to other users too. Otherwise the users will never use this system again.

- **User's Dashboard**

You can see the prototype of our dashboard page which is designed to the users, as follows. From this page, we've introduced a lot of functions to the users. They can search for the ticket information, access chat features, see the flight details, and access the profile and flights page, access FAQs and settings.

Not only these things but also users can see the popular departure points at the moment. From that users can reserve tickets from those airport. This part will be updated dynamically.



- **User Flights Page**

This is the main page of the users. Here is the place, where the users can search for the flights according to their requirements. In this page we have thought to display a table of recent flights, because the users will be able to get an about the flight which have been reserved recently. Then if they are interested they will be able to reserve a seat from those flights before the departure time.

And also the middle panel of this page is the most important one which is shown here. From that users can fill their requirements using the dropdown lists and Confirm the reservation. Then the total price of the ticket will be displayed in the right corner of this page. Then if users are okay with the price, they can reserve that seat using “Buy Tickets” option.

There users can add their credit or debit card to the system and make payments through the system and get the tickets. From using the below options, users can download the reservation receipt as well as the reserved e-ticket as well.

All these features which we have enabled here, are designed and developed to give a better experience to the users.

**PHOENIX AIRLINES**

DASHBOARD FLIGHTS CHAT PROFILE

Search

### Recent Flights

Date	FlightNo	Time	From	To
Today	345	17:17	Col	Paris
Today	678	17:16	Col	LA
Today	890	16:36	Col	London
Today	567	15:12	Col	Texas
Today	346	14:13	NY	Col
Today	679	13:13	Col	Male
Today	345	13:45	Col	Chennai
Today	123	12:23	Col	NY
Yester	346	12:00	LA	Col
Yester	347	11:53	NY	Col
Yester	759	10:23	Doha	Col
Yester	768	09:22	Paris	Col
Yester	666	09:00	Texas	Col

### Flights

From Departure

To Destination

Date DD/MM/YYYY

Time 00:00

Passengers Type : No

Trip Type

Baggage Type : No

Class Type

View the flight description  
☐ Confirm reservation

### Buy Tickets

Total Price : 22\$

Add credit or debit card

Pay

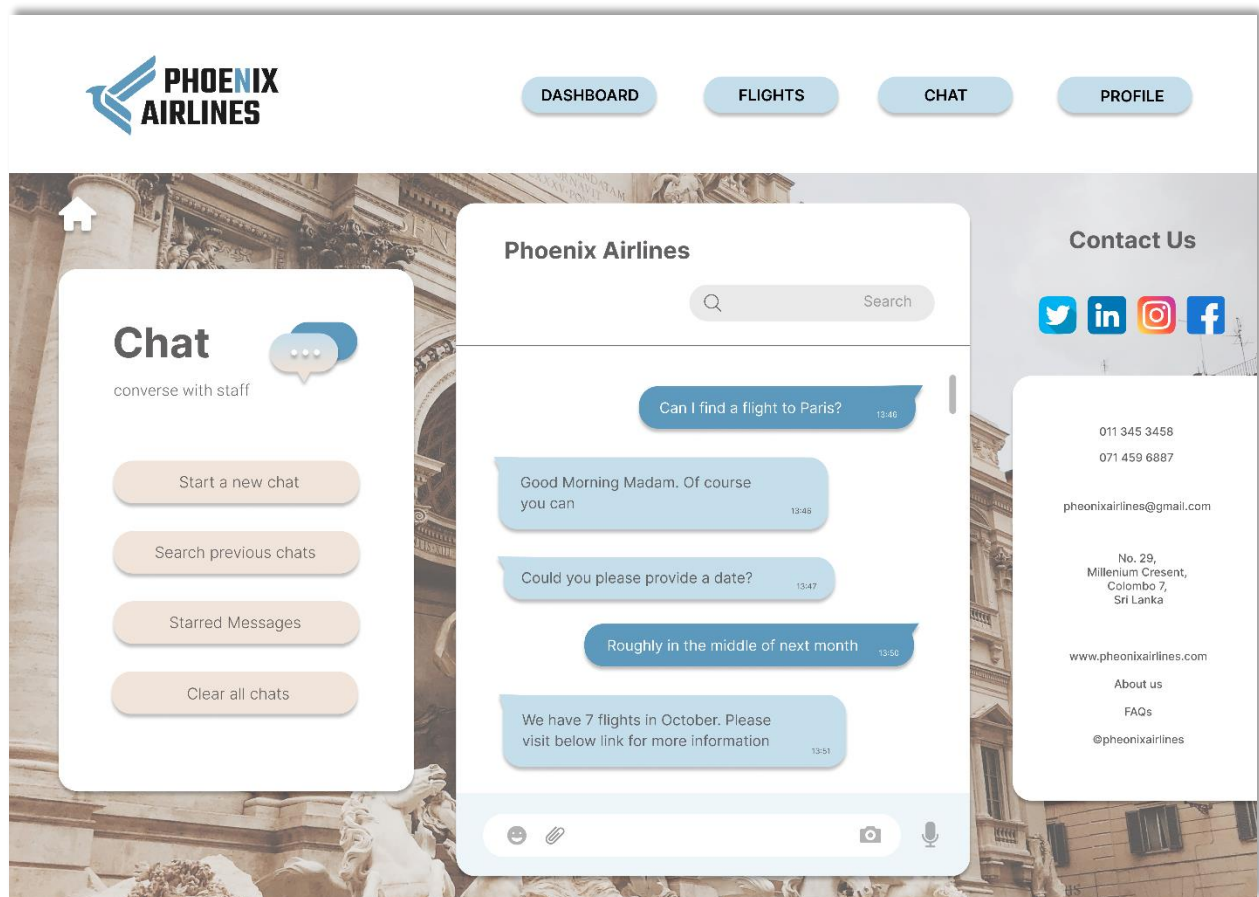
Get tickets

Download reservation receipt  
Download tickets

- **User Chat**

Some of the users might be having different questions other than the FAQs. When there are situations like that, we have to make a way which can be used to solve the issues of the users. Basically the hotline could be busy on 24hrs and the chances will be rare to solve the quick issues. But our team will definitely answer when someone reach us through the hotline as well but it might not be able to do in exact time.

For that, according to the given scenario there was a solution which enables users to chat with the staff members. Because of that we've designed a super easy chat system which is closer to all the other messenger apps out there. For use this feature the users won't need any advanced knowledge. They can simply ask their question within a text message and there are lots of staff members available in our system, one of them will definitely answer that ASAP. Because of that users won't need to waste their time on issues. That would help them to get a better user experience.



- **User Profile**

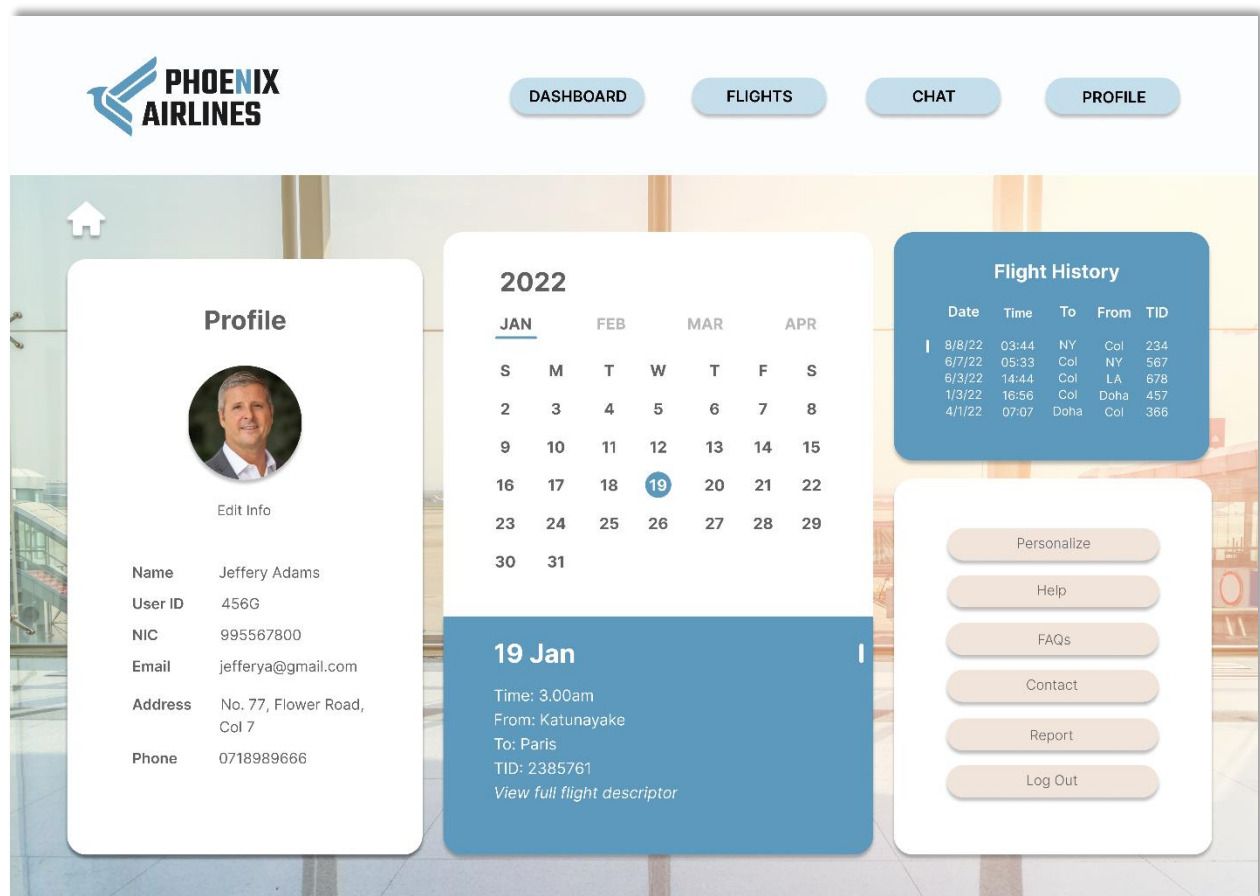
In the following you can see the design of the user profile. From this page, users can see their all the personal details which they've entered during the time they were registering with us. If the information have changed, or if there are any mistakenly false information have added, always users have the authority to change their personal information by using the "Edit Info" feature.

We've designed this page in a simple way and we've planned to implement it in a way where the users can easily manage their profiles.

From here users can see a calender which is displaying the flight reservation date. And below that calender, users can see all the information about their trip such as Time, TicketID etc. If the users need more information, they can simply click on the "view full flight description".

And also we've though to display the recent flying history of the users. Then they will be able to get an idea about what flight they should reserve this time, based on their prevoius experience.

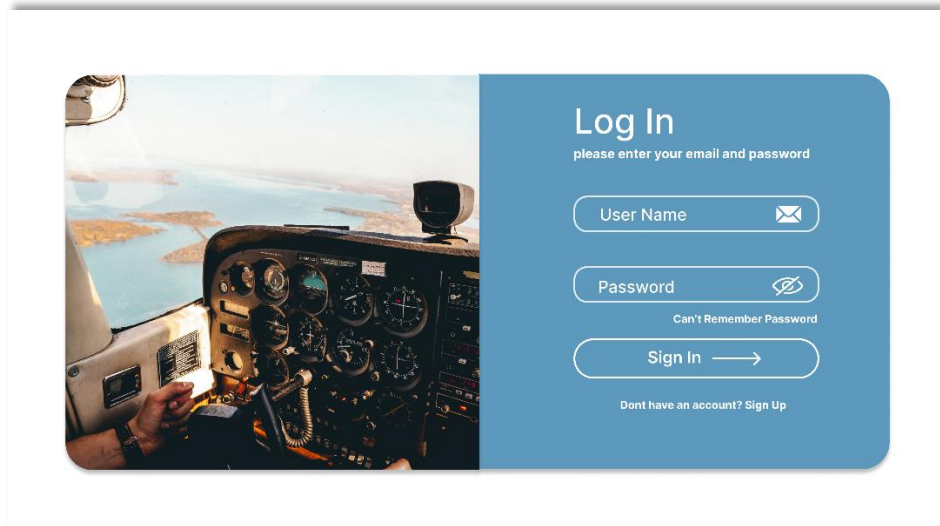
Not only that, from this page we've created some quick navigation buttons where the users can personalize, access FAQs, Contact , Report or Get some help through the system. All these features have been designed specially, because we always value the user's privacy and the experience they've gained.



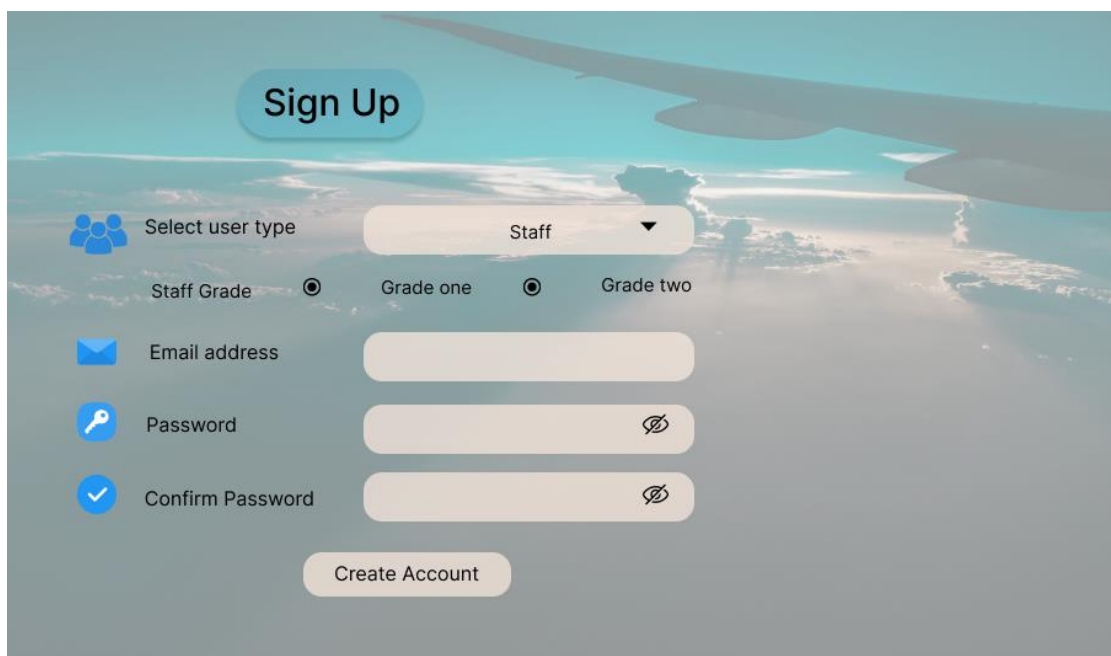


### 3.5 LOGIN PAGE

If you already have an account on our system as either a user or a staff member, by clicking the login button in the home page, you will navigate to a page as follows. Then you can simply log in to your account by using your login credentials. If a staff member is trying to login to the system, the system will definitely check whether this account is approved by the admin. If yes, that staff member will be directed to the system, and if not, the login process would be restricted.



If you are either a staff member or a user, who is willing to join with our system, all you have to do is simply click on the signup button in the home page. Then you will be redirected to a signup page as follows.



#### **4. CONCLUSION**

We tried to give the best possible user experience through our Phoenix Airlines Flight Reservation System. We've designed all the UIs in an eye-catching way and we've used some dull colors to give some rest to the eyes of the users when they are using this application. Because of that we've not used colors which have a high-contrast.

We've implemented all the functions which have given in the scenario. But not only that we've designed and developed some special features which are unique to our system.

We are planning to reach more tourists as well as the locals to visit Sri Lanka and also to reserve flights for their trips from our system. Because from that we could give more dollars to our country. That's why we've opened and linked all the social media platforms with this system.

In future, we are trying to some social media marketing and get a considerable amount of reach. Then we expect that, then The Phoenix Airlines Flight Reservation System will be Rise from the fire as a real Phoenix!

#### **5. OUR REPOSITORY**

Our Git-Hub Repository link:

<https://github.com/Senuk27/J2EE-Assignment>