Assignment 2 Design Document

ENG1003 - Team 44

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TABLE OF CONTENTS

1. PROJECT INFORMATION 3

1.1 Background 3

2.1 Summary 3

2. DESIGN DECISIONS 3

3. HOME PAGE 4

3.1 Title Bar 4

4.1 Booking the Flight Options 4

4. SCHEDULES TRIPS/ PAST TRIPS PAGES 4

5. NAVIGATION Drawer 5

6. LOGIN PAGE 6

7. SIGN UP PAGE 6

8. WIREFRAMES 7

9. STORYBOARD 18

10. CLASS DIAGRAM 19

1. PROJECT INFORMATION

1.1 Background

Many universities have exchange programs which allow students to experience and learn different cultures by studying abroad in a different country. Many students take advantage of this experience to visit different areas of the city and country. Although the COVID-19 pandemic has led to the closing of international borders, steps are taken by the federal government to allow domestic travel in an initiative to improve the nation's economy.

Monash University, which offers many exchange programs for students, have been sponsored by a flight booking company to create a web application to aid students who are planning their trips within the country. The aim of this project is to create this web application on behalf of Monash University for students to use.

2.1 Summary

The criteria of the application involves a user-friendly interface and information available instantaneously. In addition, there is a strong preference against the sight of tabs. The application should allow the user to plan a trip within the country and be able to book connecting routes. The user should also be able to see information about all available domestic routes in their selected country. Information about the trip, ability to cancel trips and earlier trips should also be available to view in the application. The application should allow all users to search and book a trip but the ability to save scheduled trips are for users who sign up to the web application.

The target device for this web application will be the iPad Pro in landscape view although other devices and orientations are also taken into consideration.

2. DESIGN DECISIONS

- The page will have a sand tan colour #e1b382
- Title bar will be
- Icons will be red
- Possible routes will be blue
- Selected routes will be green
- Font will be Roboto Normal

Overall Colour Scheme of page:

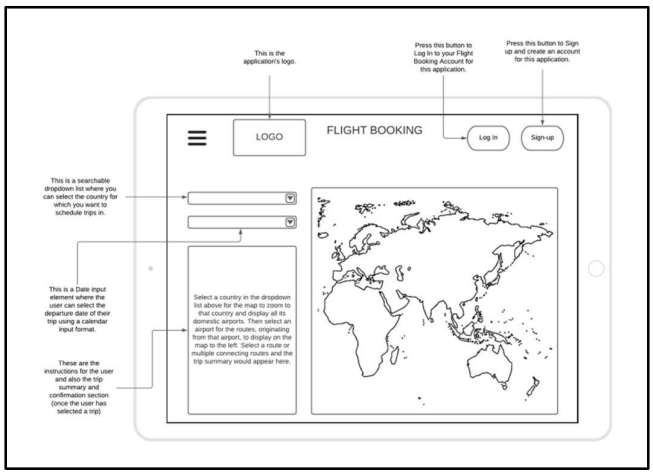
- Grassy Green: #9bc400
- Purple mountains Majesty: #8076a3
- Misty Mountain Pink: #f9c5bd
- Factory Stone Purple: #7c67

3. HOME PAGE

Page components:

3.1 Title Bar

- Sign Up Button
- Login Button
- Three Lines
- Flight Booking Title



4.1 Booking the Flight Options

- Drop Down Boxes (Country)
- Drop Down Boxes (Date)
- Cancel Button
- Delete Button (of an Airport)
- Airport added to the list
- Map
- Summary Box Background
- Summary Box Title Background

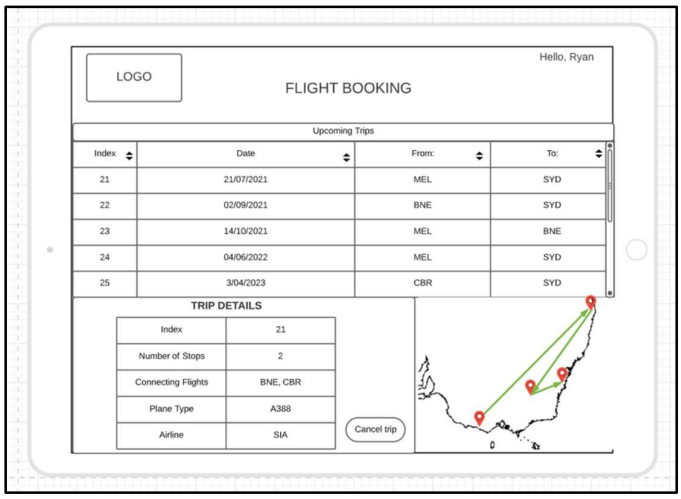
The title bar will be at the top of the page; this will include the website name, the logo, sign up/ login buttons. There is also an icon on the top left which will open the MDL navigation bar on the left side of the page.
The main part of the home page consists of 2 drop down lists, for country and date, a summary box and an interactive map. The summary box is positioned underneath the two dropdown lists and will display the airports selected by the user. The interactive map will have icons to display each airport.

4. SCHEDULES TRIPS/ PAST TRIPS PAGES

Page components:

- Table Heading (‘Upcoming Trips’)
- Table column headings background
- Table background
- Cancel Trip button
- Trip Details Background
- Trip Details Table Row Headings background
- Trip Details data background

The scheduled trips and planned trips page have the same layout/ page design.
The pages will have a large table which includes the booking index, date of the flight as well as the departing city and destination city.
On the bottom left of the page is another table containing more specific trip details: number of stops, connecting flights, plane type as well as the Airline. In order to see the specific trip details, the user can select a specific trip from the main table. When the user has selected a specific trip from the table, a map will appear on the bottom right of the page which shows the routes of the trip.

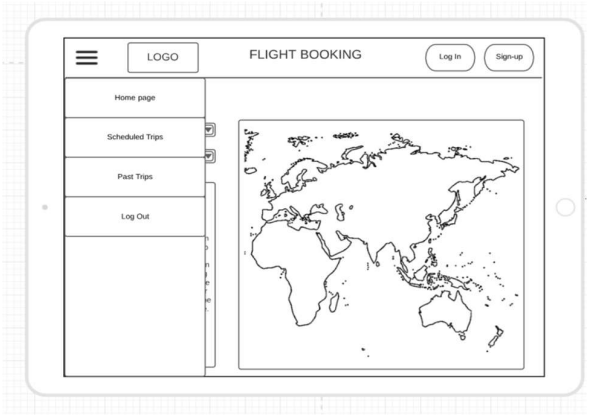


5. NAVIGATION Drawer

Page components:

- Navigation Background (blank bit at the bottom)
- Background of boxes with headings (Home page, scheduled trips etc.)
- Hover colour of boxes (when you hover of the button you want to click)

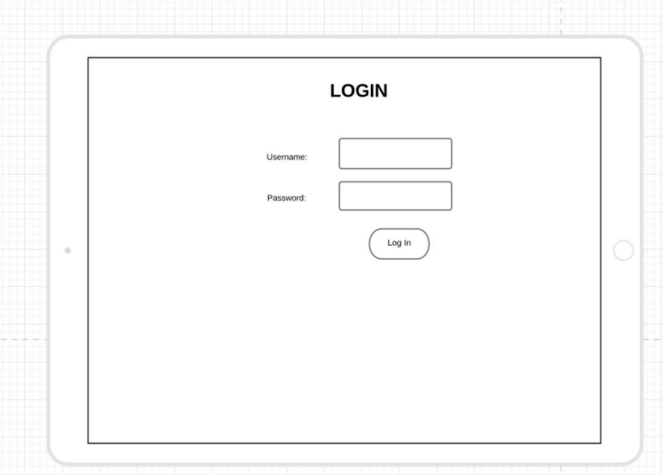
Clicking on the icon on the top left of the page will open up the navigation bar which appears to the left of the page. Here, the user can select to go from the Home page to the scheduled trips or past trips pages. If the user is logged in, they will also be given the option to log out.



6. LOGIN PAGE

Page components:

- Login button
- Username input box
- Password input box



The login page consists of a title 'LOGIN' and two input fields for username and password.
After user has imputed their data, they can click on the 'login' button

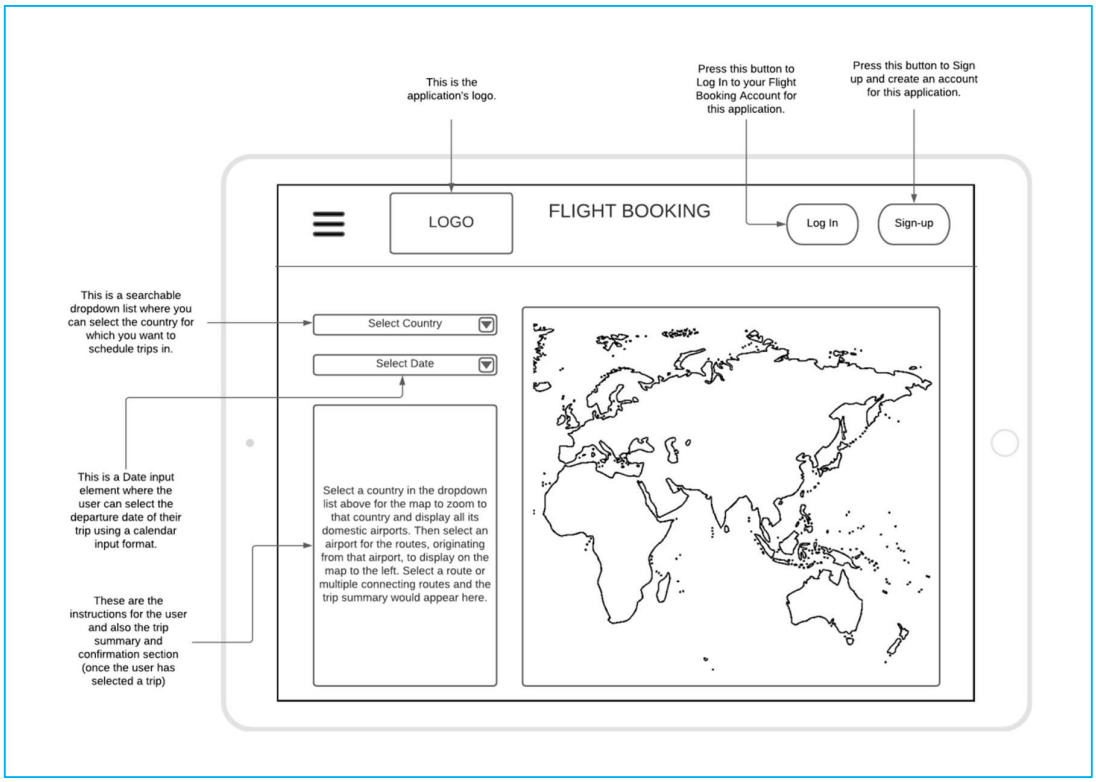
7. SIGN UP PAGE

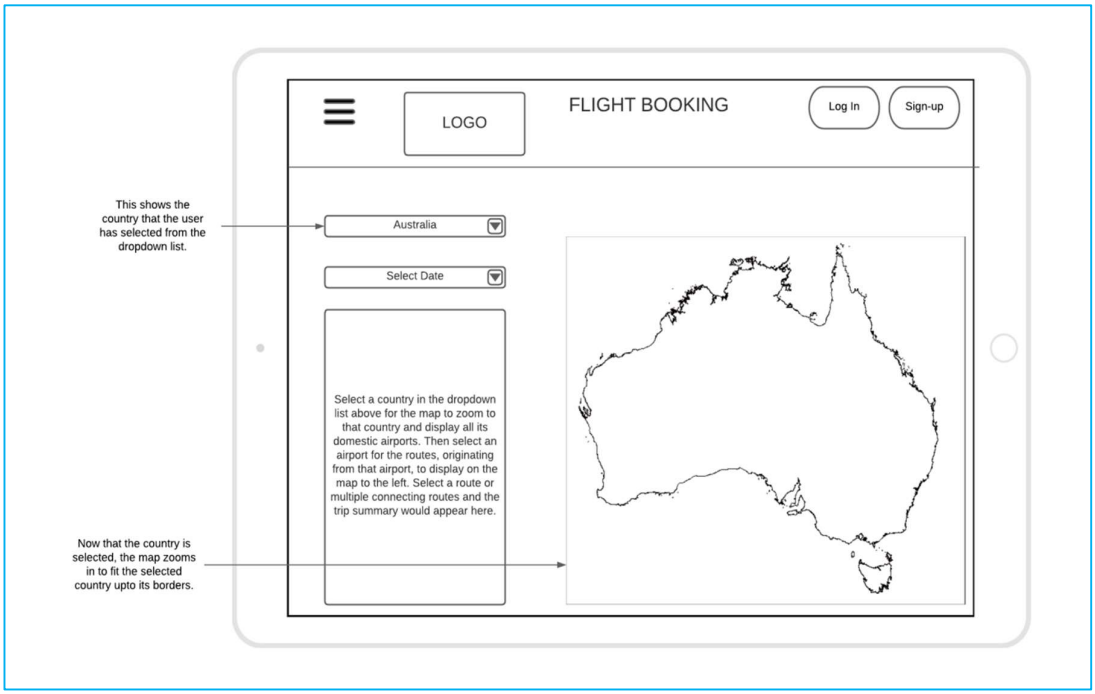
Page components:

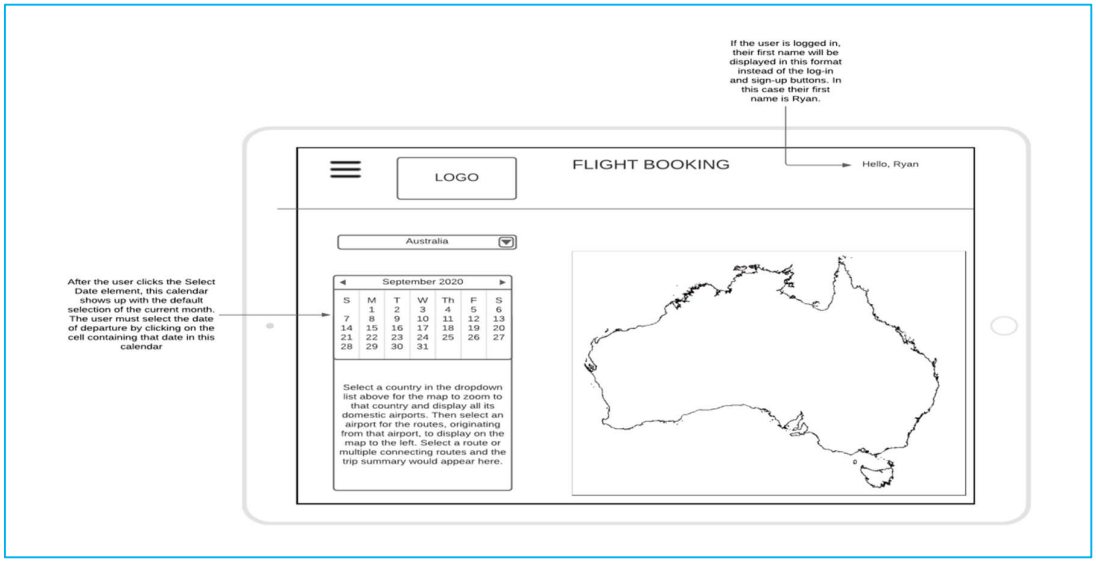
- First name input box background
- Username input box background
- Email Address Input box background
- Password input box background
- Sign Up button

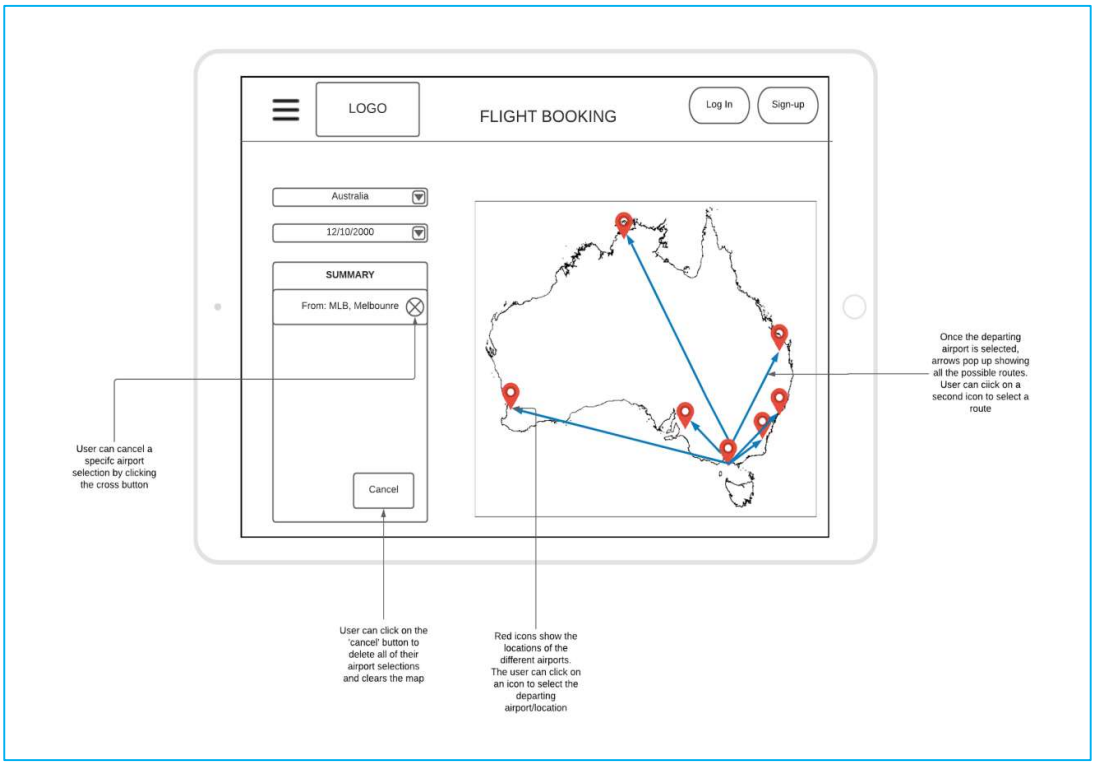
The sign up page is similar to the login page however there are more input fields. The user must enter first name, username, email address and password.
Underneath these input fields, there is a sign up button that the user must click in order to complete sign up.

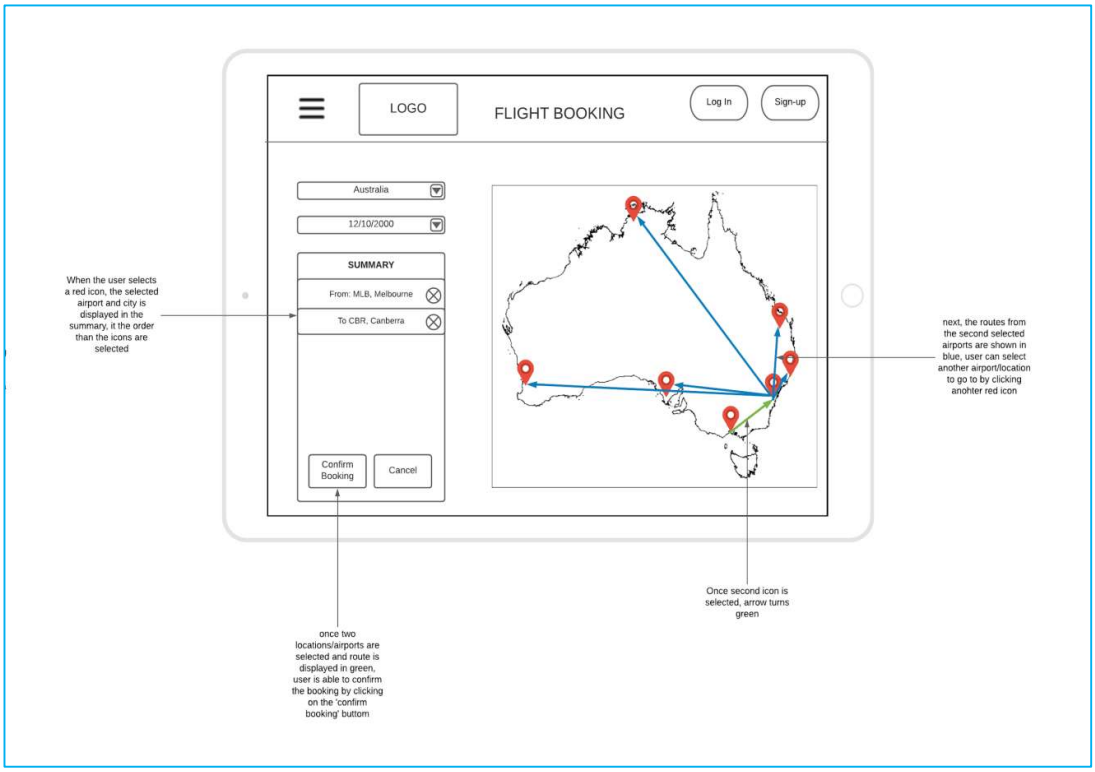
8. WIREFRAMES

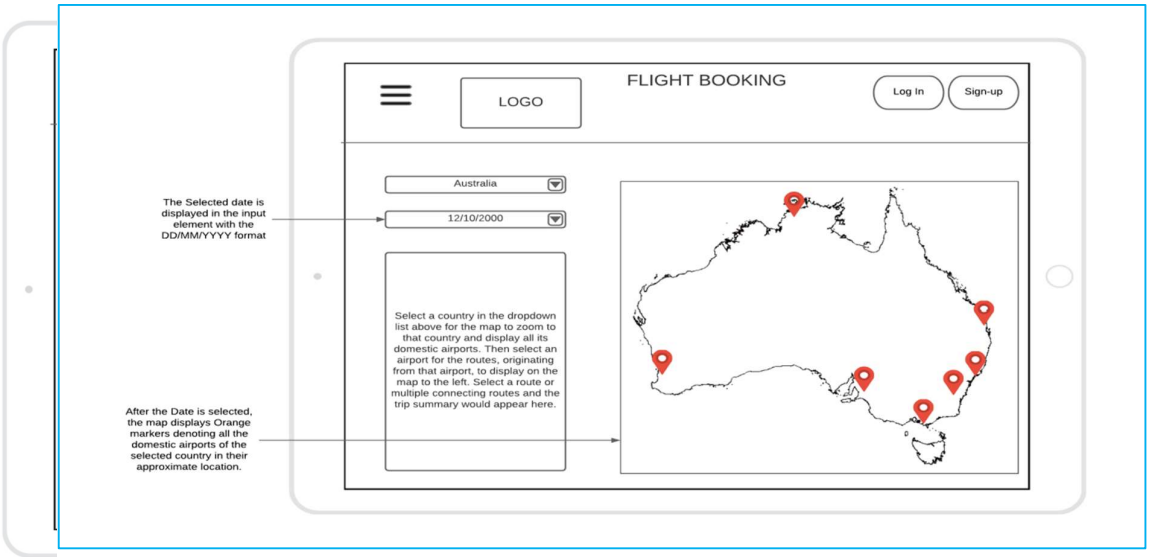


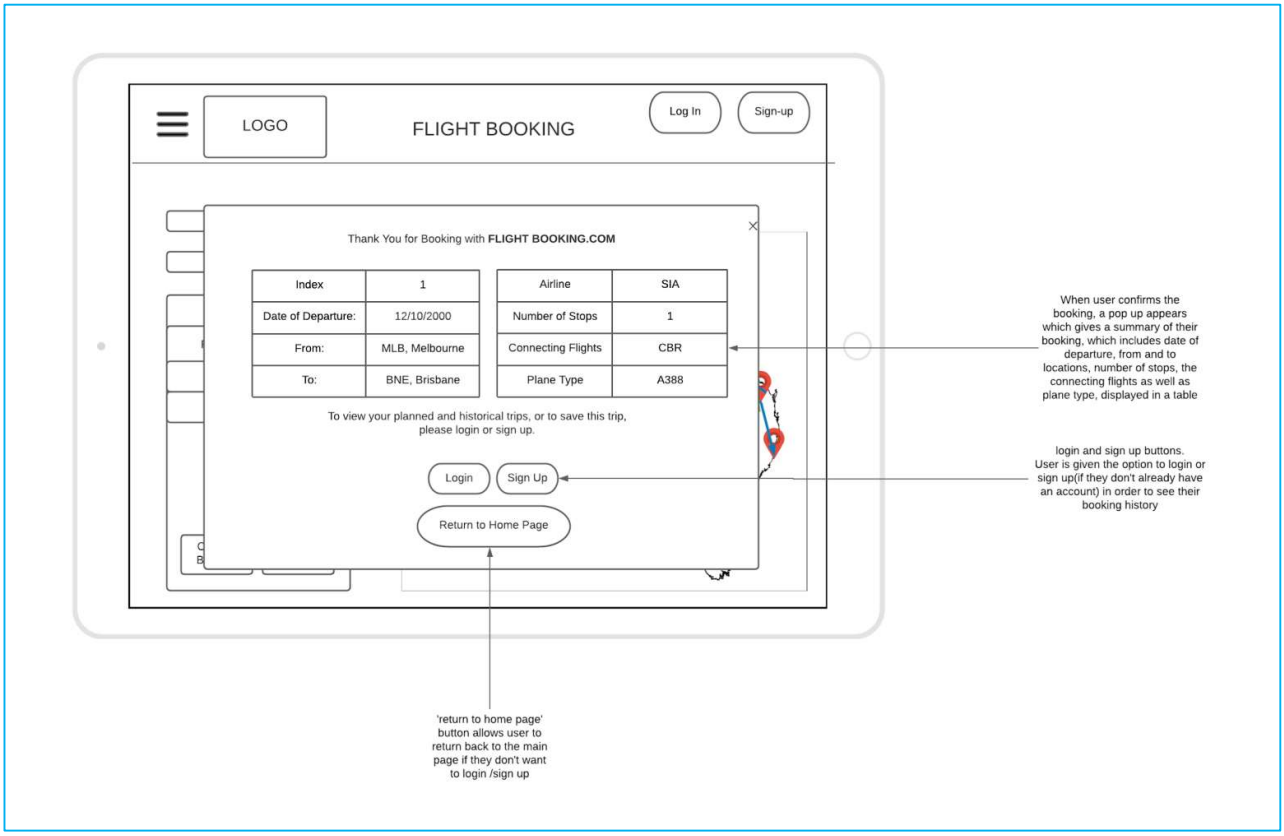


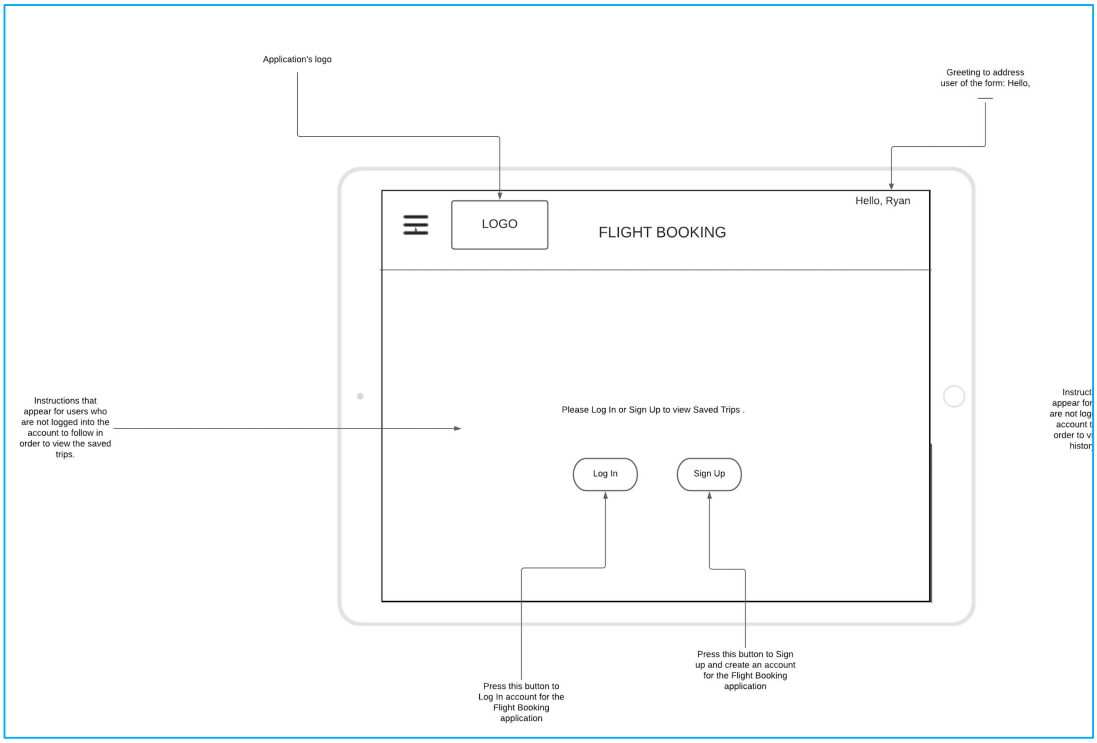

If the user is logged in, their first name will be displayed in this format instead of the log-in and sign-up buttons. In this case their first name is Ryan.
LOGO
FLIGHT BOOKING
Hello, Ryan
Australia
After the user clicks the Select Date element, this calendar shows up with the default selection of the current month. The user must select the date of departure by clicking on the cell containing that date in this calendar
September 2020
S M T W Th F S
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31
Select a country in the dropdown list above for the map to zoom to that country and display all its domestic airports. Then select an airport for the routes, originating from that airport, to display on the map to the left. Select a route or multiple connecting routes and the trip summary would appear here.

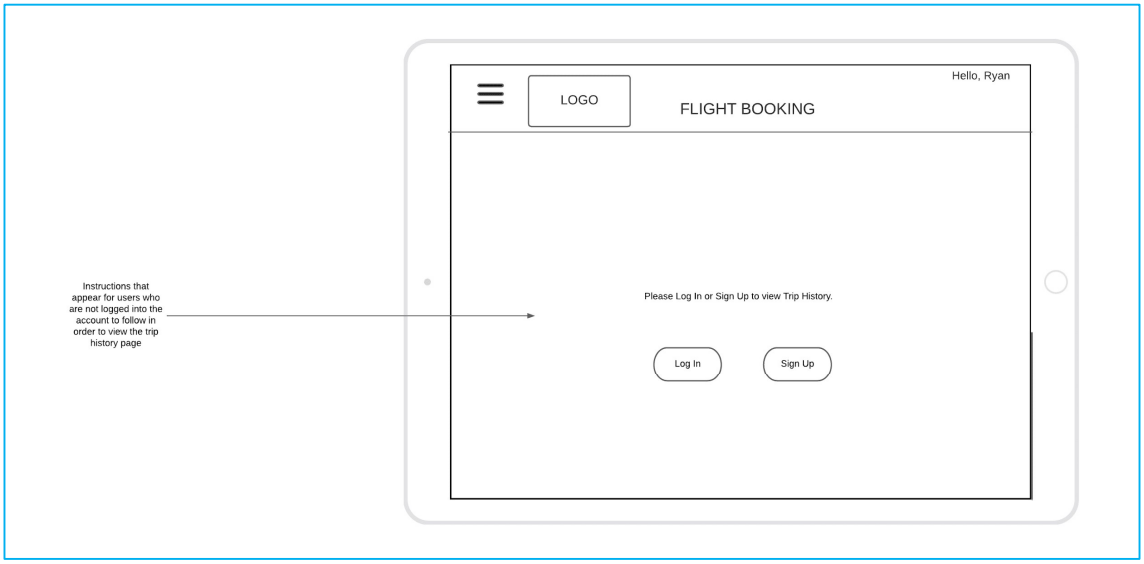

LOGO
FLIGHT BOOKING
Log In
Sign-up
Australia
12/10/2000
SUMMARY
From: MLB, Melbounre
Cancel
User can cancel a specifc airport selection by clicking the cross button
Once the departing airport is selected, arrows pop up showing all the possible routes. User can ciick on a second icon to select a route
User can click on the 'cancel' button to delete all of their airport selections and clears the map
Red icons show the locations of the different airports. The user can click on an icon to select the departing airport/location

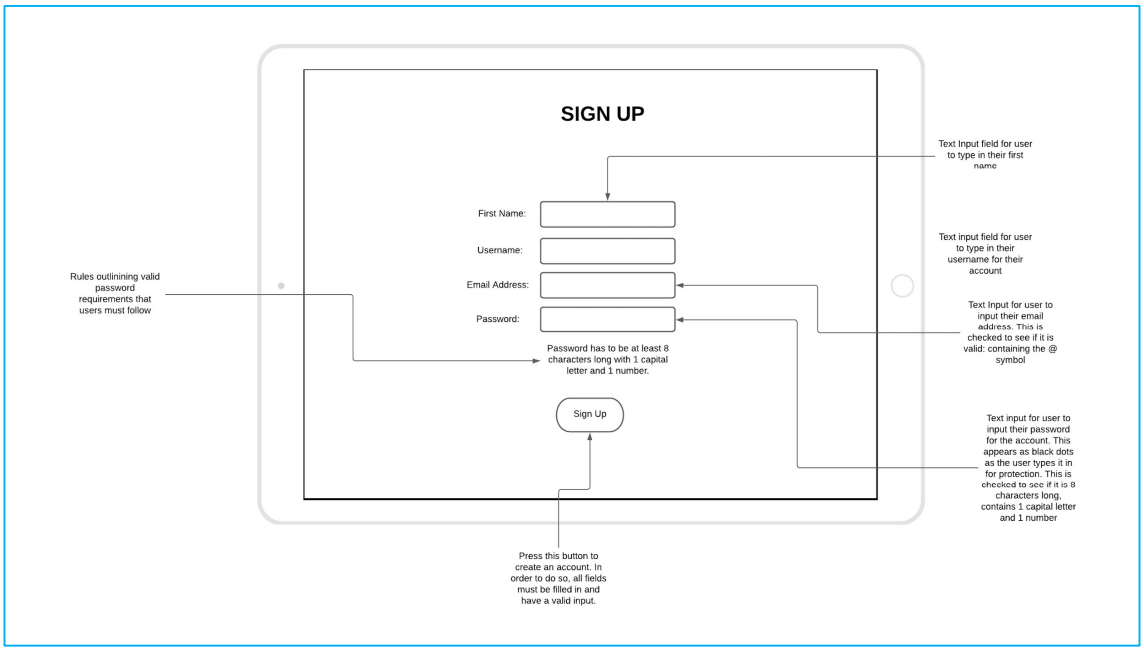

LOGO
FLIGHT BOOKING
Log In
Sign-up
Australia
12/10/2000
SUMMARY
From: MLB, Melbourne
To CBR, Canberra
Confirm Booking
Cancel
When the user selects a red icon, the selected airport and city is displayed in the summary, it the order than the icons are selected
next, the routes from the second selected airports are shown in blue, user can select another airport/location to go to by clicking anohter red icon
Once second icon is selected, arrow turns green
once two locations/airports are selected and route is displayed in green, user is able to confirm the booking by clicking on the 'confirm booking' buttom

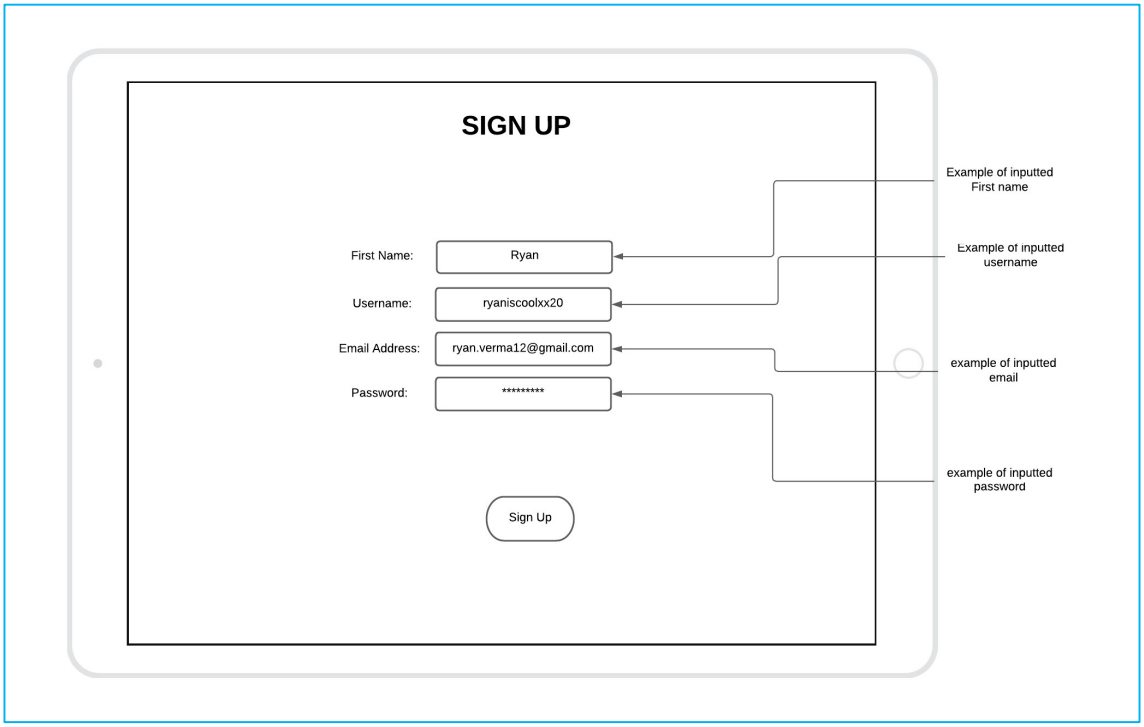

LOGO
FLIGHT BOOKING
Log In
Sign-up
Australia
12/10/2000
The Selected date is displayed in the input element with the DD/MM/YYYY format
Select a country in the dropdown list above for the map to zoom to that country and display all its domestic airports. Then select an airport for the routes, originating from that airport, to display on the map to the left. Select a route or multiple connecting routes and the trip summary would appear here.
After the Date is selected, the map displays Orange markers denoting all the domestic airports of the selected country in their approximate location.

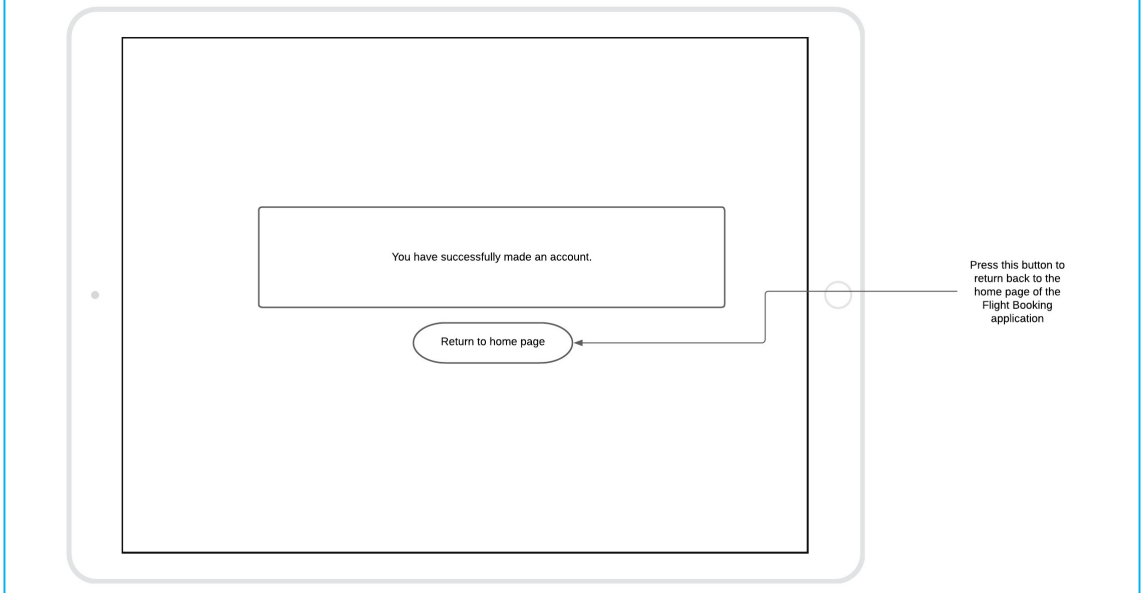

LOGO
FLIGHT BOOKING
Log In
Sign-up
Thank You for Booking with FLIGHT BOOKING.COM
Index
1
Date of Departure:
12/10/2000
From:
MLB, Melbourne
To:
BNE, Brisbane
Airline
SIA
Number of Stops
1
Connecting Flights
CBR
Plane Type
A388
To view your planned and historical trips, or to save this trip, please login or sign up.
Login
Sign Up
Return to Home Page
When user confirms the booking, a pop up appears which gives a summary of their booking, which includes date of departure, from and to locations, number of stops, the connecting flights as well as plane type, displayed in a table
login and sign up buttons. User is given the option to login or sign up(if they don't already have an account) in order to see their booking history
'return to home page' button allows user to return back to the main page if they don't want to login /sign up

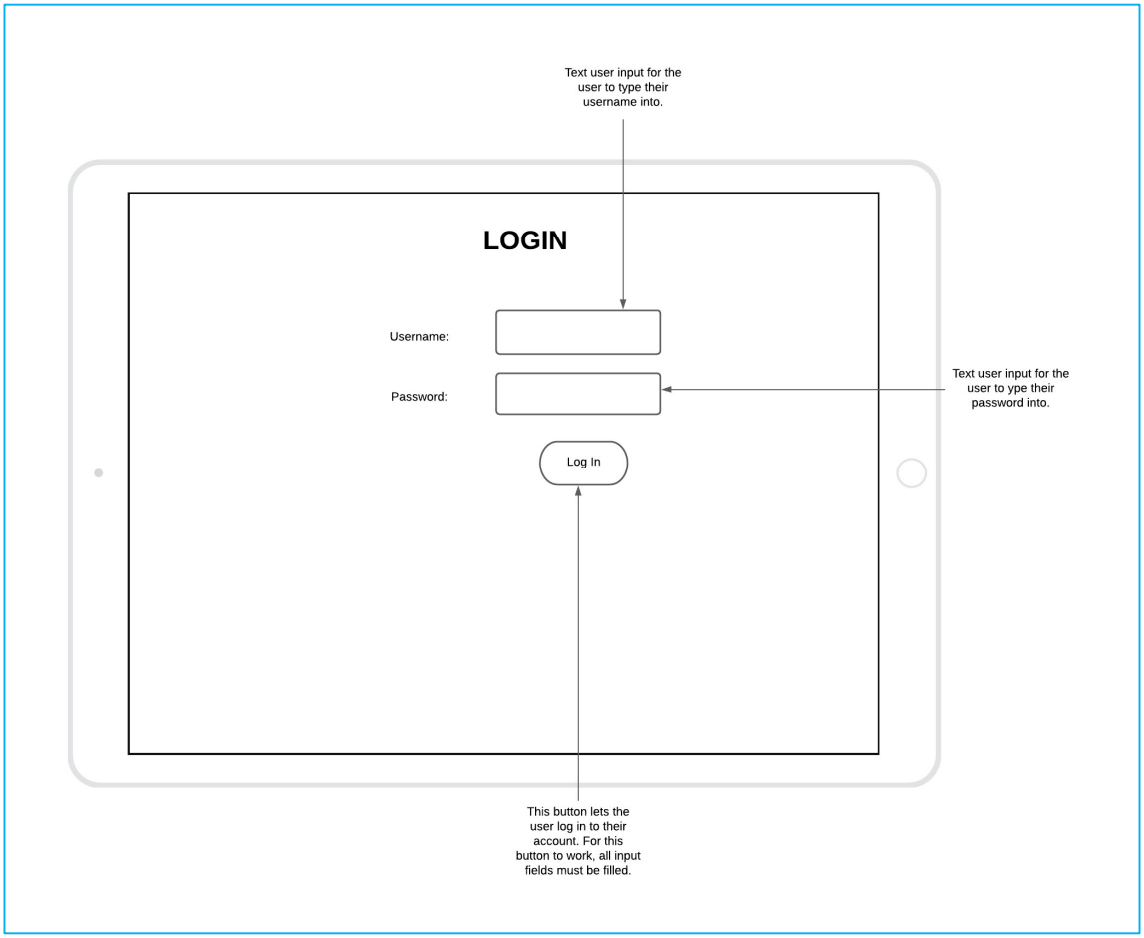

Application's logo
Greeting to address user of the form: Hello,
LOGO
FLIGHT BOOKING
Hello, Ryan
Instructions that appear for users who are not logged into the account to follow in order to view the saved trips.
Please Log In or Sign Up to view Saved Trips .
Log In
Sign Up
Press this button to Log In account for the Flight Booking application
Press this button to Sign up and create an account for the Flight Booking application

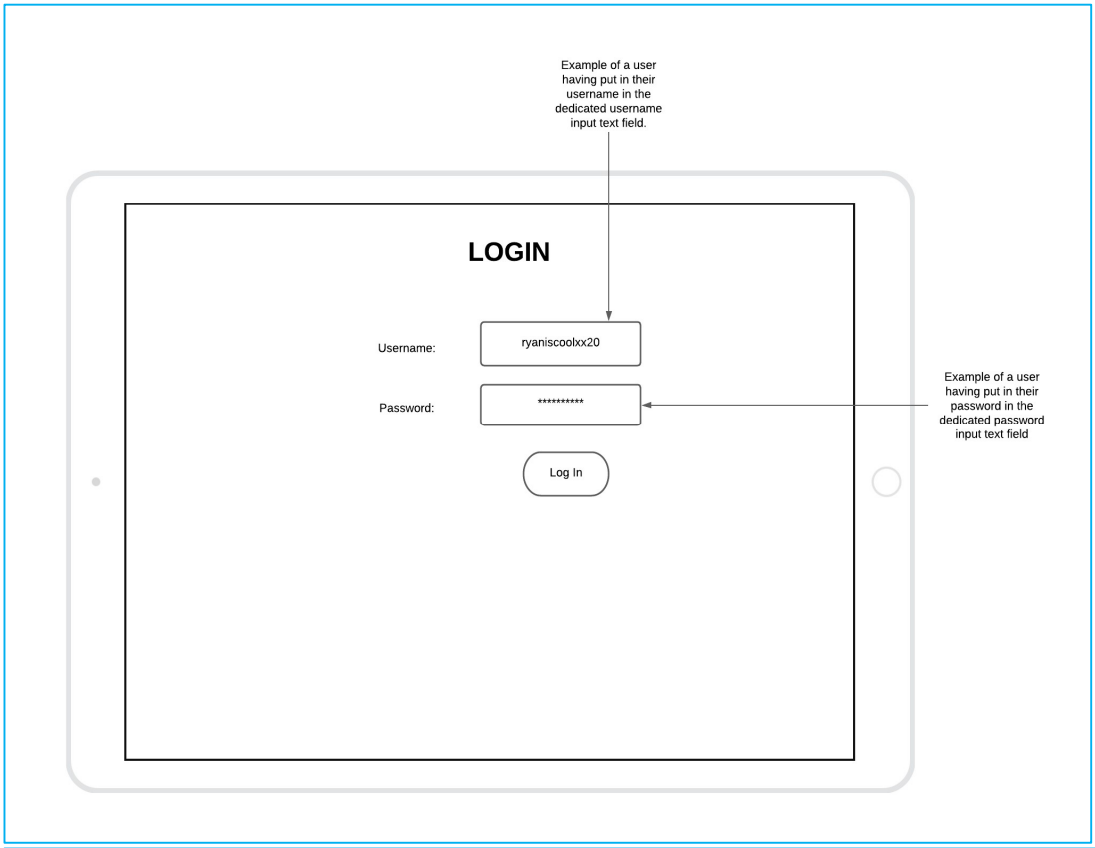

Hello, Ryan
LOGO
FLIGHT BOOKING
Instructions that appear for users who are not logged into the account to follow in order to view the trip history page
Please Log In or Sign Up to view Trip History.
Log In
Sign Up

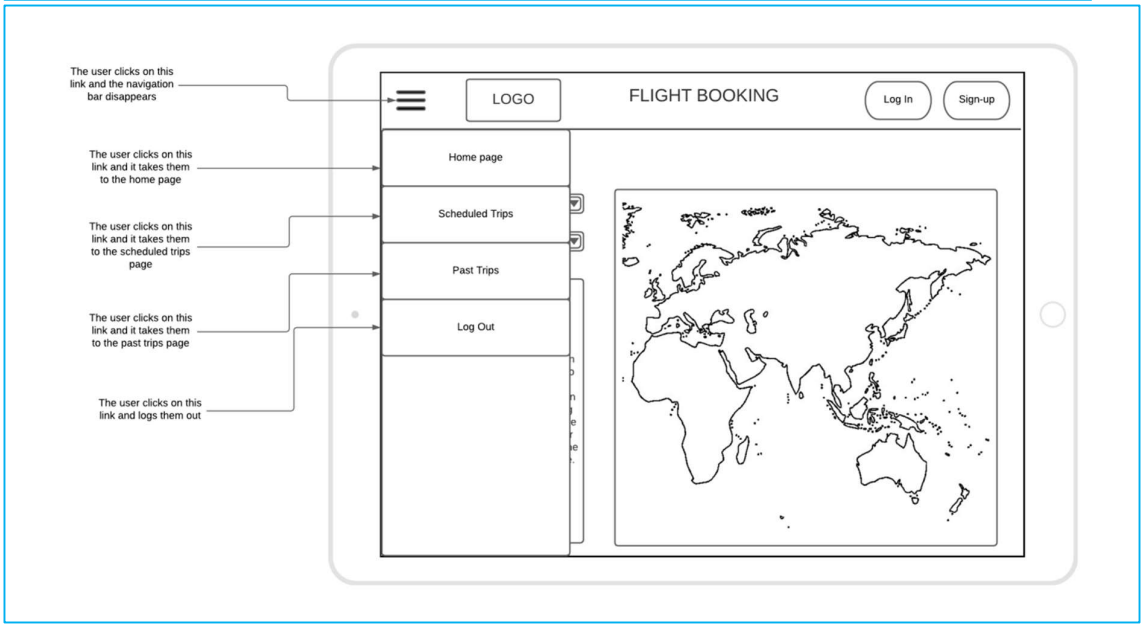

SIGN UP
Text Input field for user to type in their first name
First Name:
Username:
Email Address:
Password:
Text input field for user to type in their username for their account
Rules outlinining valid password requirements that users must follow
Text Input for user to input their email address. This is checked to see if it is valid: containing the @ symbol
Password has to be at least 8 characters long with 1 capital letter and 1 number.
Sign Up
Text input for user to input their password for the account. This appears as black dots as the user types it in for protection. This is checked to see if it is 8 characters long, contains 1 capital letter and 1 number
Press this button to create an account. In order to do so, all fields must be filled in and have a valid input.

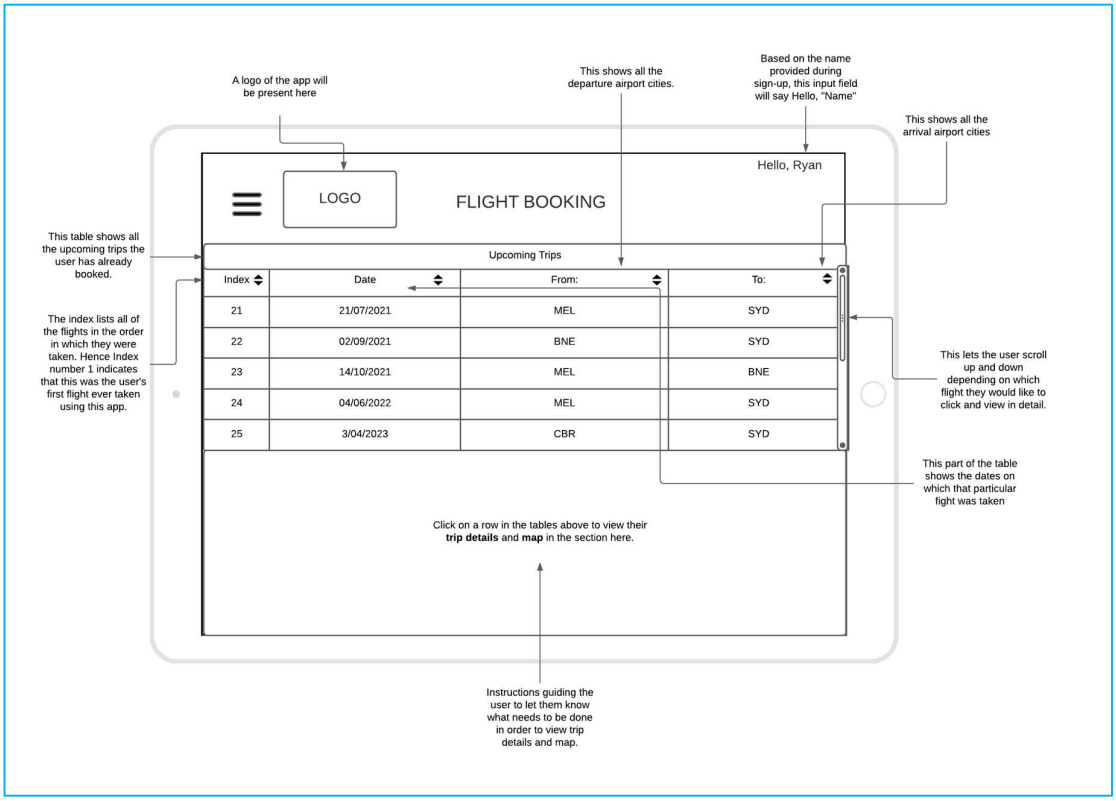

SIGN UP
First Name:
Ryan
Username:
ryaniscoolxx20
Email Address:
ryan.verma12@gmail.com
Password:
****
Sign Up
Example of inputted First name
Example of inputted username
example of inputted email
example of inputted password

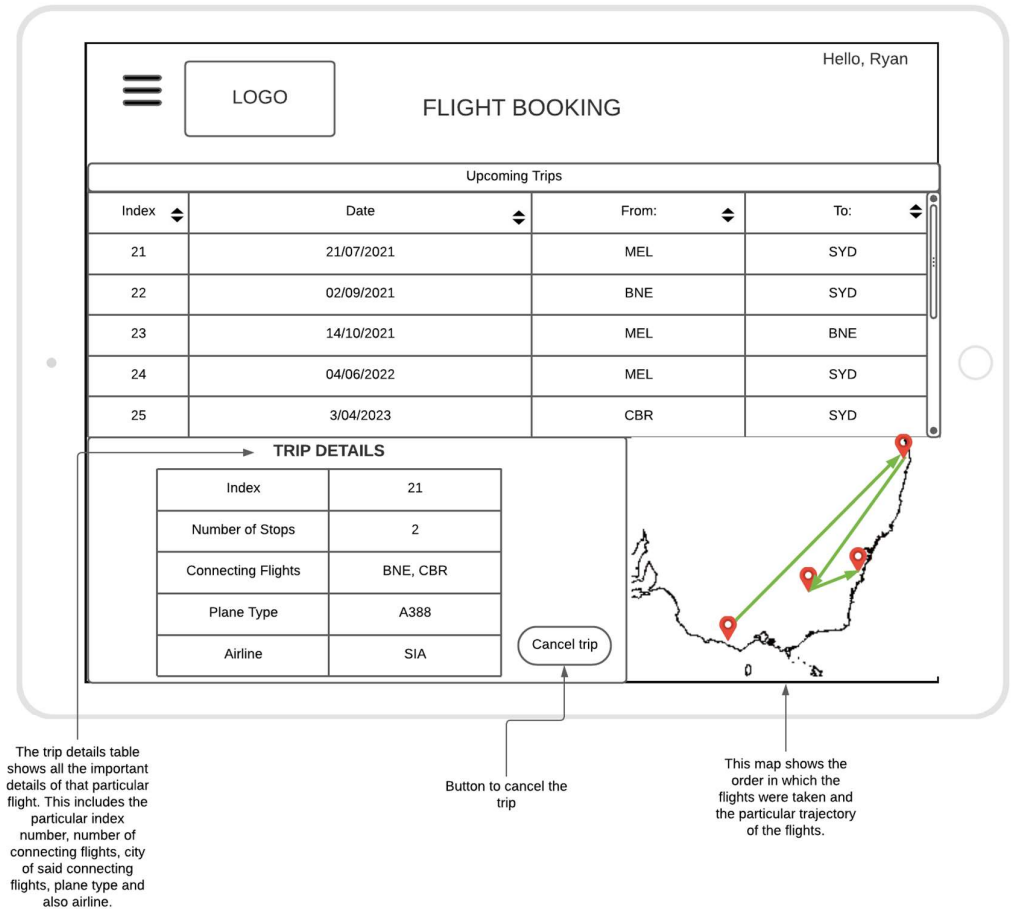

You have successfully made an account.
Return to home page
Press this button to return back to the home page of the Flight Booking application

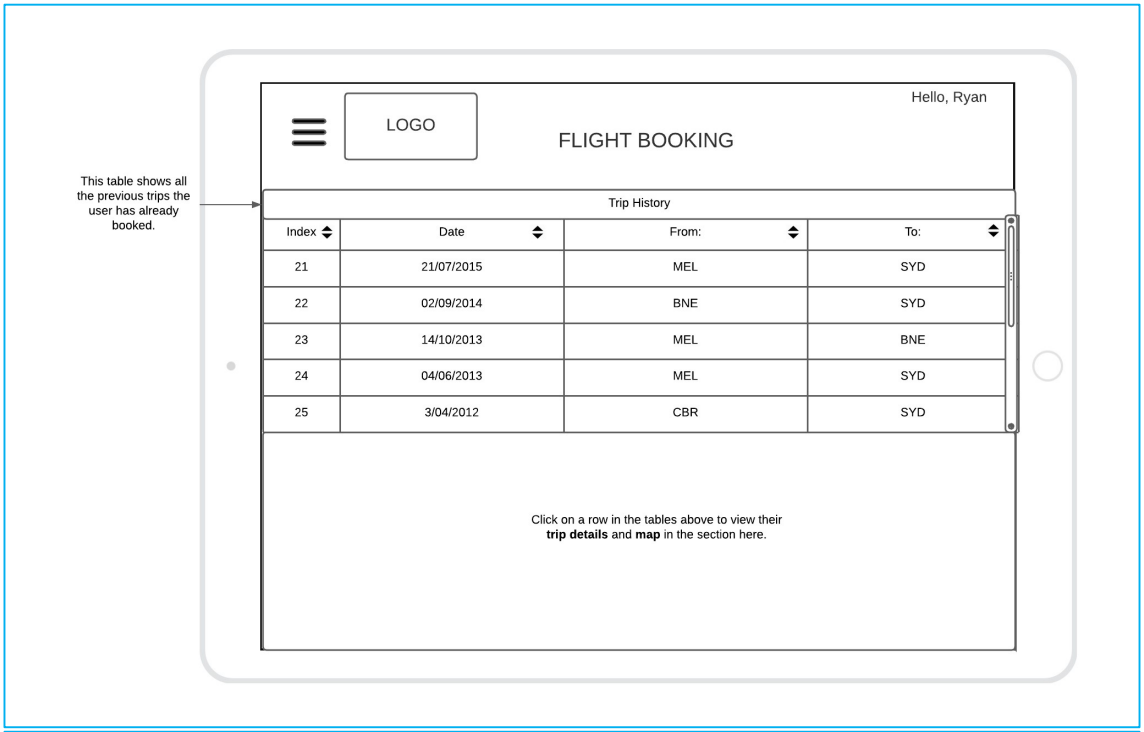

Text user input for the user to type their username into.
LOGIN
Username:
Password:
Log In
Text user input for the user to ype their password into.
This button lets the user log in to their account. For this button to work, all input fields must be filled.

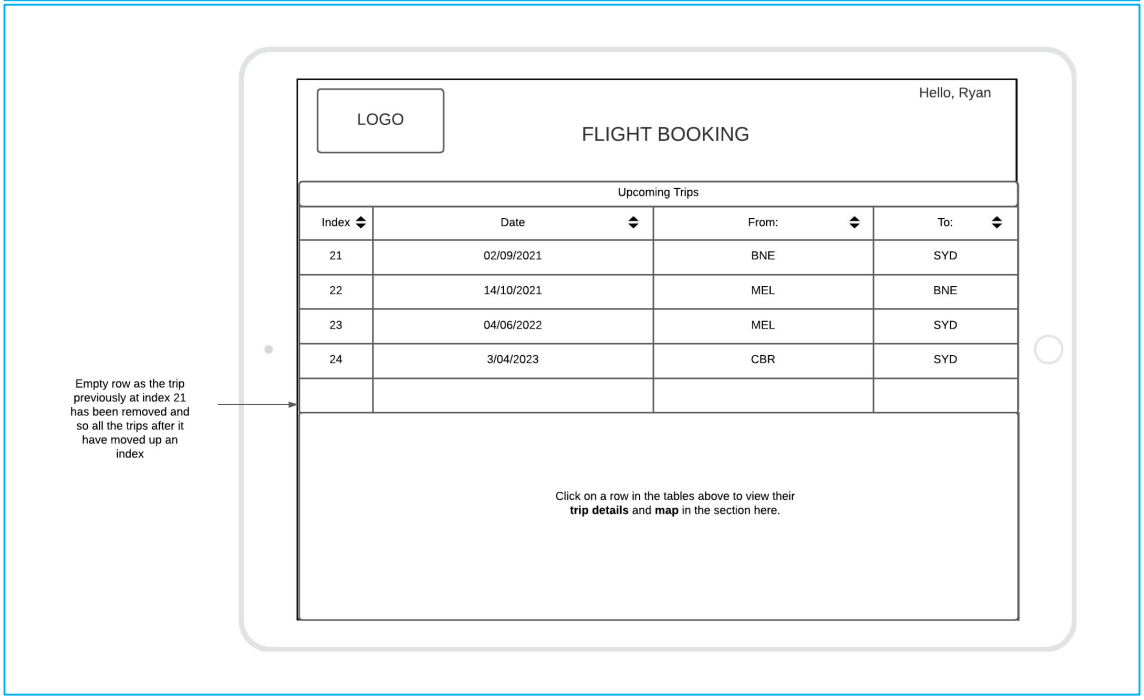

Example of a user having put in their username in the dedicated username input text field.
LOGIN
Username:
ryaniscoolxx20
Password:
****
Log In
Example of a user having put in their password in the dedicated password input text field


The user clicks on this link and the navigation bar disappears
The user clicks on this link and it takes them to the home page
The user clicks on this link and it takes them to the scheduled trips page
The user clicks on this link and it takes them to the past trips page
The user clicks on this link and logs them out
LOGO
FLIGHT BOOKING
Log In
Sign-up
Home page
Scheduled Trips
Past Trips
Log Out


A logo of the app will be present here
This shows all the departure airport cities.
Based on the name provided during sign-up, this input field will say Hello, "Name"
This shows all the arrival airport cities
LOGO
FLIGHT BOOKING
Hello, Ryan
This table shows all the upcoming trips the user has already booked.
Upcoming Trips
Index
Date
From:
To:
21
21/07/2021
MEL
SYD
22
02/09/2021
BNE
SYD
23
14/10/2021
MEL
BNE
24
04/06/2022
MEL
SYD
25
3/04/2023
CBR
SYD
The index lists all of the flights in the order in which they were taken. Hence Index number 1 indicates that this was the user's first flight ever taken using this app.
This lets the user scroll up and down depending on which flight they would like to click and view in detail.
This part of the table shows the dates on which that particular fight was taken
Click on a row in the tables above to view their trip details and map in the section here.
Instructions guiding the user to let them know what needs to be done in order to view trip details and map.

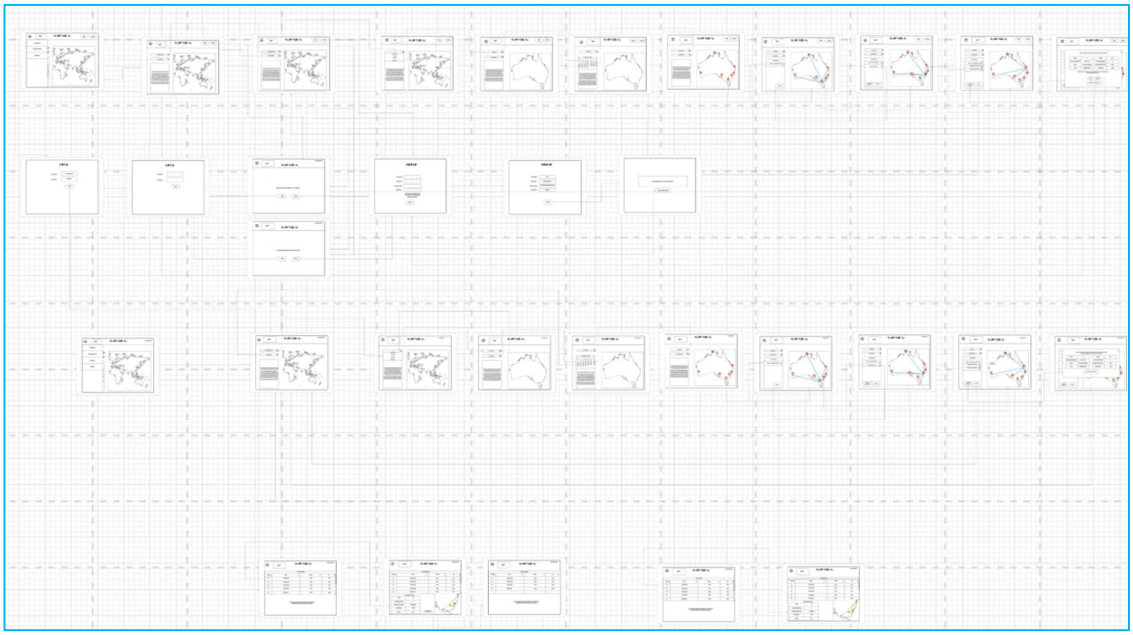
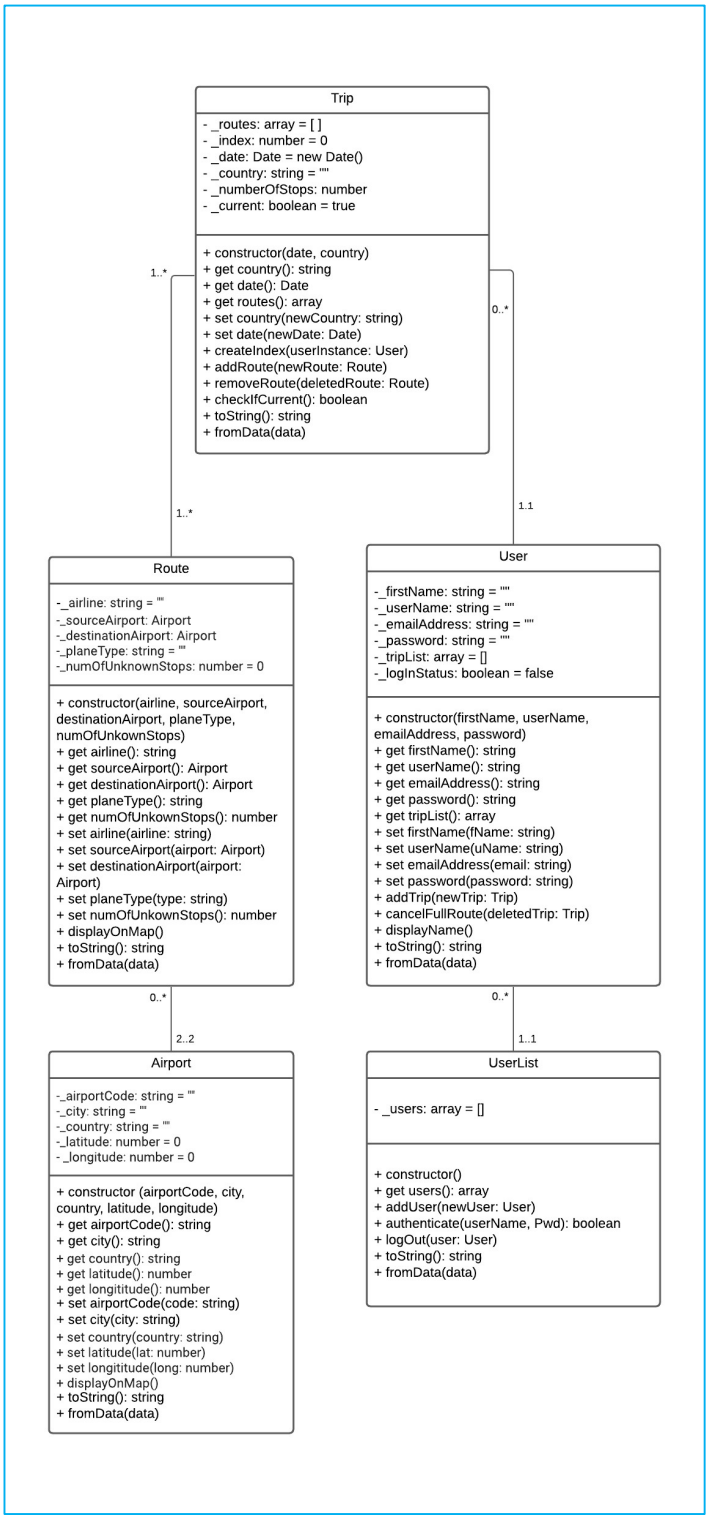

Hello, Ryan
LOGO
FLIGHT BOOKING
Upcoming Trips
Index
Date
From:
To:
21
21/07/2021
MEL
SYD
22
02/09/2021
BNE
SYD
23
14/10/2021
MEL
BNE
24
04/06/2022
MEL
SYD
25
3/04/2023
CBR
SYD
TRIP DETAILS
Index
21
Number of Stops
2
Connecting Flights
BNE, CBR
Plane Type
A388
Airline
SIA
Cancel trip
The trip details table shows all the important details of that particular flight. This includes the particular index number, number of connecting flights, city of said connecting flights, plane type and also airline.
Button to cancel the trip
This map shows the order in which the flights were taken and the particular trajectory of the flights.


This table shows all the previous trips the user has already booked.
LOGO
Hello, Ryan
FLIGHT BOOKING
Trip History
Index
Date
From:
To:
21
21/07/2015
MEL
SYD
22
02/09/2014
BNE
SYD
23
14/10/2013
MEL
BNE
24
04/06/2013
MEL
SYD
25
3/04/2012
CBR
SYD
Click on a row in the tables above to view their trip details and map in the section here.


Empty row as the trip previously at index 21 has been removed and so all the trips after it have moved up an index
LOGO
Hello, Ryan
FLIGHT BOOKING
Upcoming Trips
Index
Date
From:
To:
21
02/09/2021
BNE
SYD
22
14/10/2021
MEL
BNE
23
04/06/2022
MEL
SYD
24
3/04/2023
CBR
SYD
Click on a row in the tables above to view their trip details and map in the section here.

9. STORYBOARD

Link to the storyboard on LucidChart:
https://app.lucidchart.com/documents/edit/72483bb2-0b79-4923-9204-dae1d4a84587/0_0?shared=true#?folder_id=home&browser=icon



10. CLASS DIAGRAM