ENG1003

SEMESTER 2 2020

ASSIGNMENT 2

DESIGN DOCUMENT

Team 133

Members: Arthur Lee, Abrar Iqbal, Cheryl Lau, Germaine Pok

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Project Information

Project Background

Monash University requires for a web application to be designed that will allow users to plan domestic flights within a country of their choice. The application interface should be user friendly and have information readily available. Monash University requires for a web application to be created as students would like to be able to plan trips in order to visit the country they are in. Also, due to the current COVID-19 pandemic, international borders are mostly closed however, most governments have started to allow for domestic travel to take place again to help maintain the economy. Therefore, a web application that helps students plan domestic flights has been proposed.

Summary

The web application development process follows a waterfall-agile methodology hybrid that can be split into six phases: the requirements phase, design phase, prototyping phase, implementation phase, verification phase, and handover (i.e. presentation of web application to client).

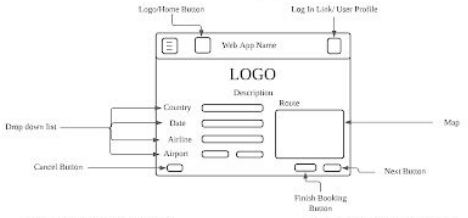
This report details the design phase of the project. In this stage, wireframes of the web application are created based on the requirements gathered during the requirements phase. From this, storyboards can be designed based on the wireframes that detail the flow of the web app (eg: what happens when this button is clicked?). Finally, class diagrams are drawn that detail the types of data that are required to be captured and how they are stored and used by the system.

Design Decisions

The web application being developed will follow the Materials Design Lite (MDL) format. Font styles, font colour, and font size will follow the settings developed by MDL for H1 up to H6 and P. All web pages within the web app will follow the same structure of having an MDL fixed header with the web app logo and web app name displayed in the top left corner and the user profile icon/sign in link displayed in the top right corner. The respective page contents will be displayed in the space provided. The main colour is indigo while the accent colour is pink. Page titles use H2 while information text uses H5 or H6.

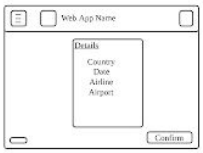
Wireframes

Homepage



Cancel confirmation page

Details comfirmation page



Booking confirmation page

Login page

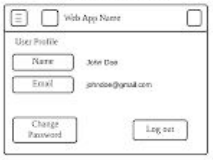
Sign up page

Summary page

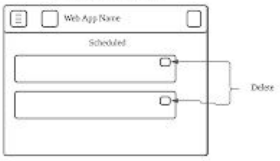
Detailed Summary page

History List Page

User Profile Page



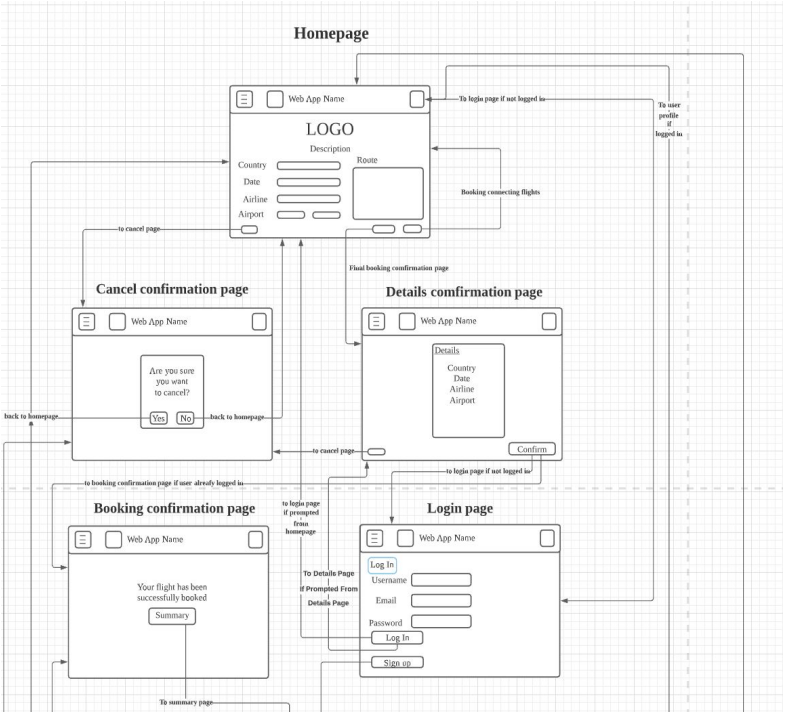
Schedule List Page

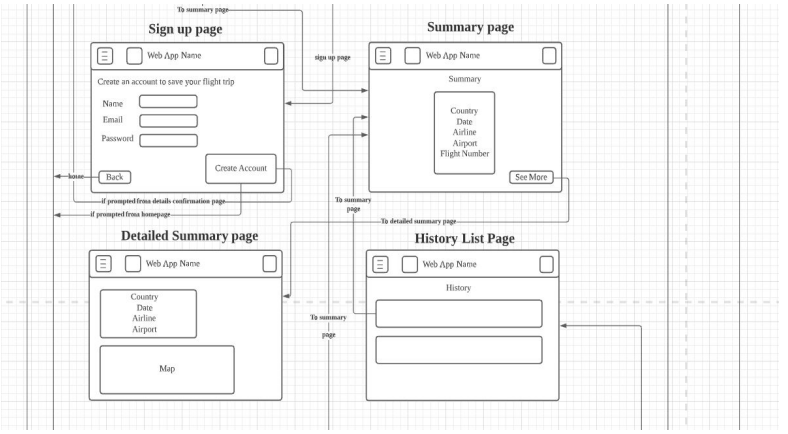


View All Routes

Navigational Bar

Storyboard


Homepage
Web App Name
LOGO
Description
Country
Date
Airline
Airport
Route
To login page if not logged in
To user profile if logged in
Booking connecting flights
to cancel page
Fiual booking confirmation page
Cancel confirmation page
Are you sure you want to cancel?
Yes
No
back to homepage
Details comfirmation page
Details
Country
Date
Airline
Airport
Confirm
to booking confirmation page if user already logged in
Booking confirmation page
Your flight has been successfully booked
Summary
to login page if prompted from homepage
Login page
Log In
Username
Email
Password
Log In
Sign up
To Details Page if Prompted From Details Page
To summary page


Sign up page
Create an account to save your flight trip
Name
Email
Password
Create Account
Back
sign up page
Summary page
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Date
Airline
Airport
Flight Number
See More
To summary page
To detailed summary page
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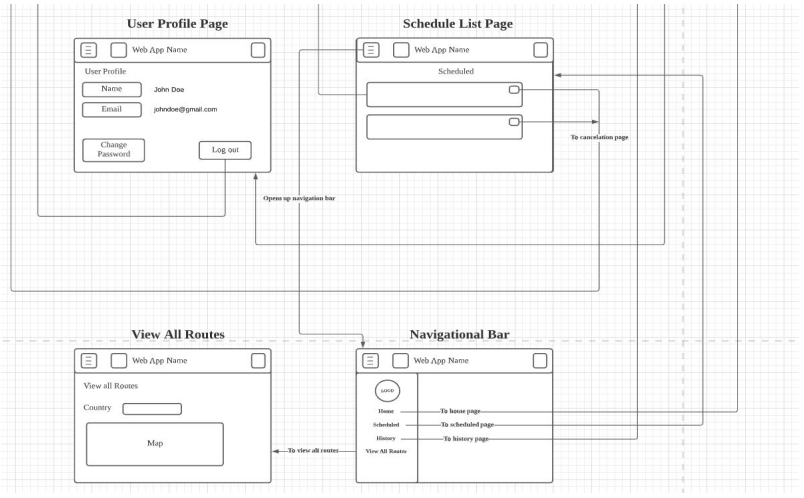
History List Page
History
To summary page


User Profile Page
User Profile
Name
John Doe
Email
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Change Password
Log out
Schedule List Page
Scheduled
To cancelation page
Opens up navigation bar
View All Routes
View all Rootes
Country
Map
To view all routes
Navigational Bar
Home
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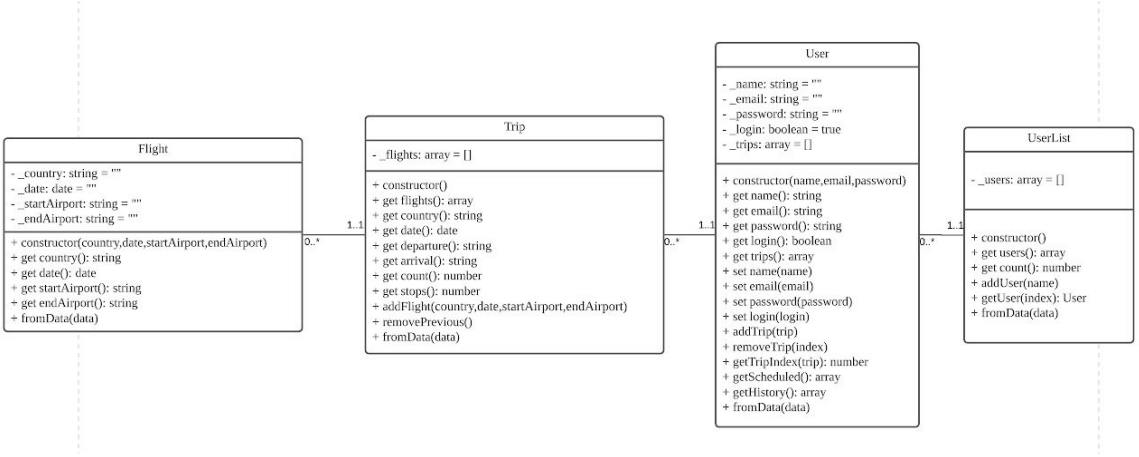
To scheduled page
To history page

Class Diagram