DESIGN FOR RIGET ZOO ADVENTURES

Task 1 B

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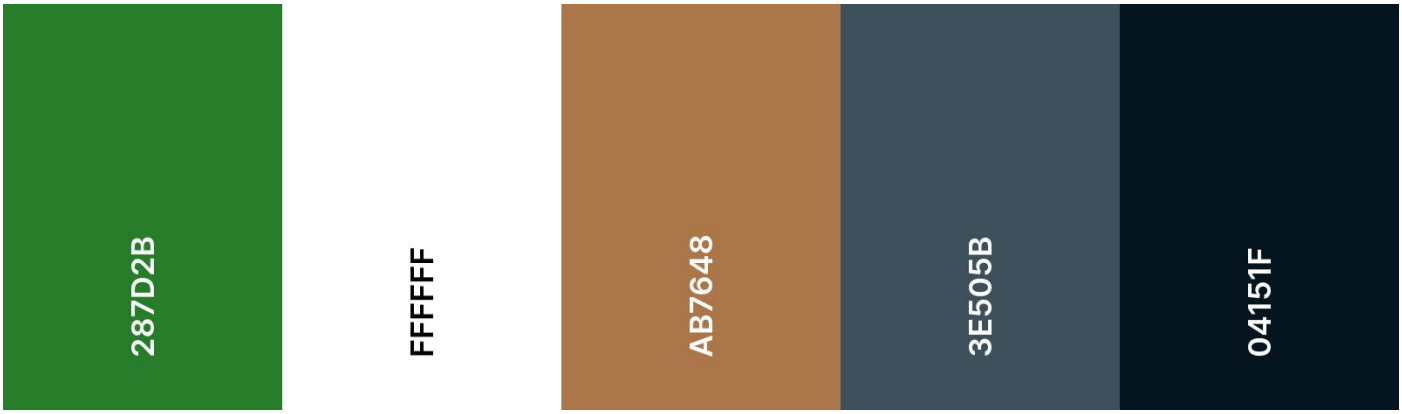
Visual / Interface Designs

Logo:

The Logo Produced below via Canva is influenced by the colourway of similar zoos in the Great Britain District. Since the Establishment date was not specified, I used a random date of “2000” which can be changed later on. I find this logo to be suitable for all age groups including children, however not too childish for adults.

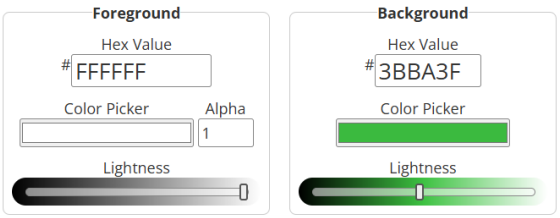
Colour Scheme:

Research was done to show that the zoos tend to have a dominant colourway of orange and green. Orange relating to the four of animals and green relating to the natural colour of nature. This was then used to influence the colour palette which will be used in the design of the website. This colour palette was generated with https://coolors.co/



Riget Color Pallette

The Colour Palette was tested with the WCAG guidelines to ensure best visibility. I used a website called WebAIM to constantly check whether the guidelines are met and the appropriate colours to use. You can see below the contrast with #FFFFFF (white) being used on the colours. It shows what fails and what passes.



Contrast Ratio
2.53:1

permalink

Normal Text

WCAG AA: **Fail**
WCAG AAA: **Fail**

The five boxing wizards jump quickly.

Large Text

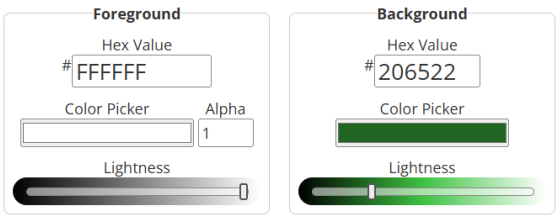
WCAG AA: **Fail**
WCAG AAA: **Fail**

The five boxing wizards jump quickly.

Graphical Objects and User Interface Components

WCAG AA: **Fail**

★
Text Input



Contrast Ratio
7.12:1

permalink

Normal Text

WCAG AA: **Pass**
WCAG AAA: **Pass**

The five boxing wizards jump quickly.

Large Text

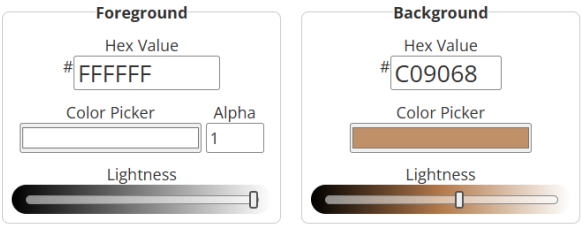
WCAG AA: **Pass**
WCAG AAA: **Pass**

The five boxing wizards jump quickly.

Graphical Objects and User Interface Components

WCAG AA: **Pass**

★
Text Input



Contrast Ratio
2.82:1

permalink

Normal Text

WCAG AA: **Fail**
WCAG AAA: **Fail**

The five boxing wizards jump quickly.

Large Text

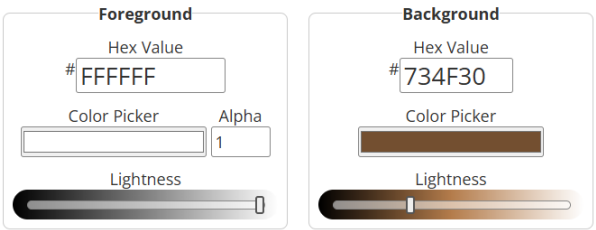
WCAG AA: **Fail**
WCAG AAA: **Fail**

The five boxing wizards jump quickly.

Graphical Objects and User Interface Components

WCAG AA: **Fail**

★
Text Input



Contrast Ratio
7.26:1

permalink

Normal Text

WCAG AA: **Pass**
WCAG AAA: **Pass**

The five boxing wizards jump quickly.

Large Text

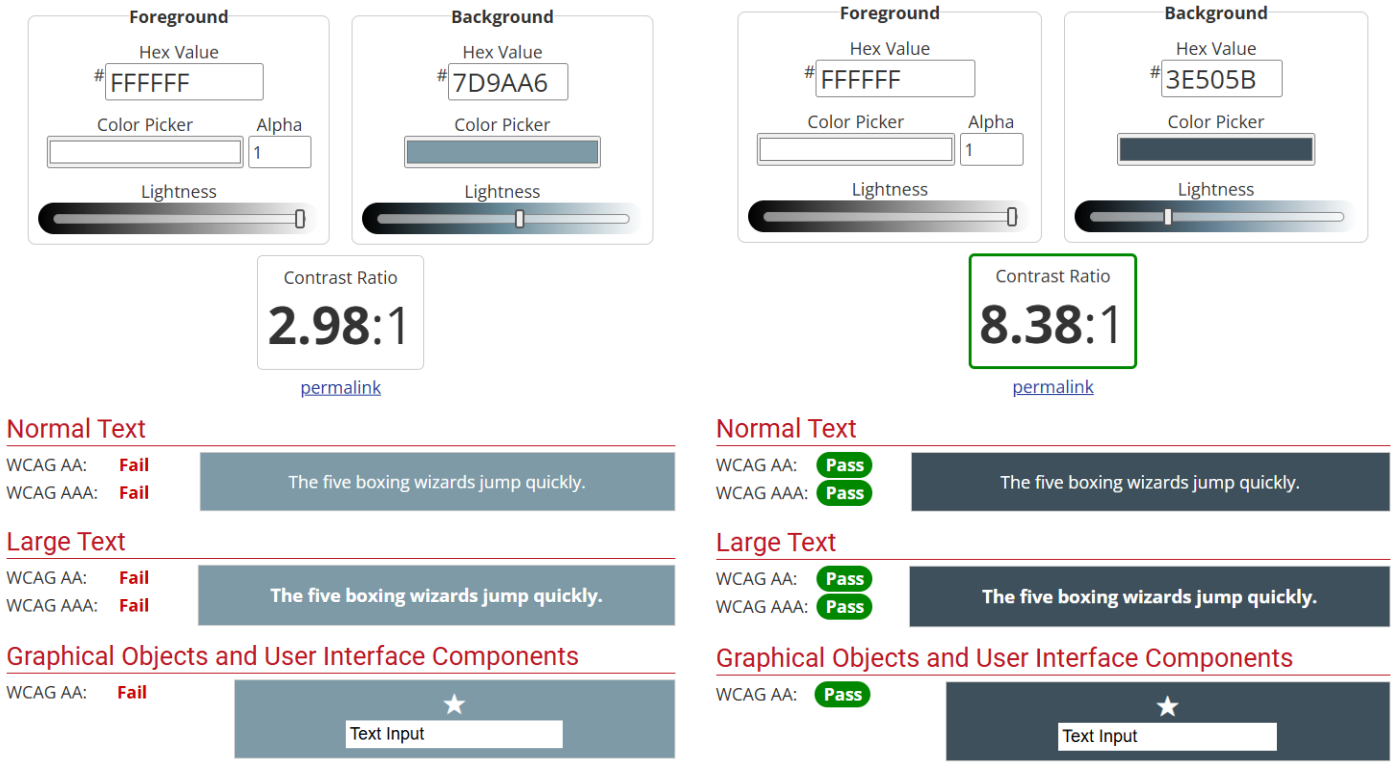
WCAG AA: **Pass**
WCAG AAA: **Pass**

The five boxing wizards jump quickly.

Graphical Objects and User Interface Components

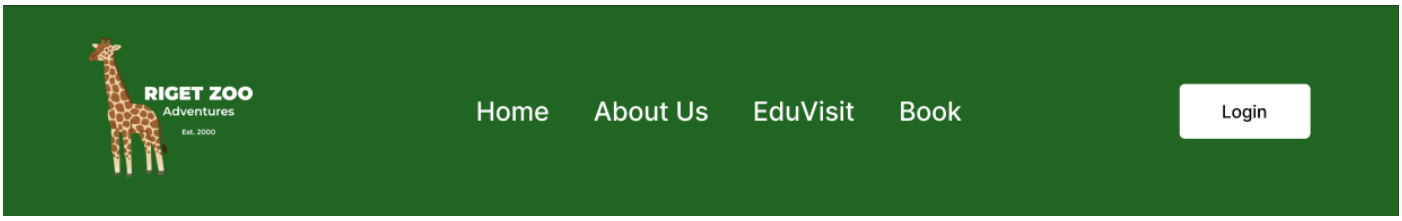
WCAG AA: **Pass**

★
Text Input



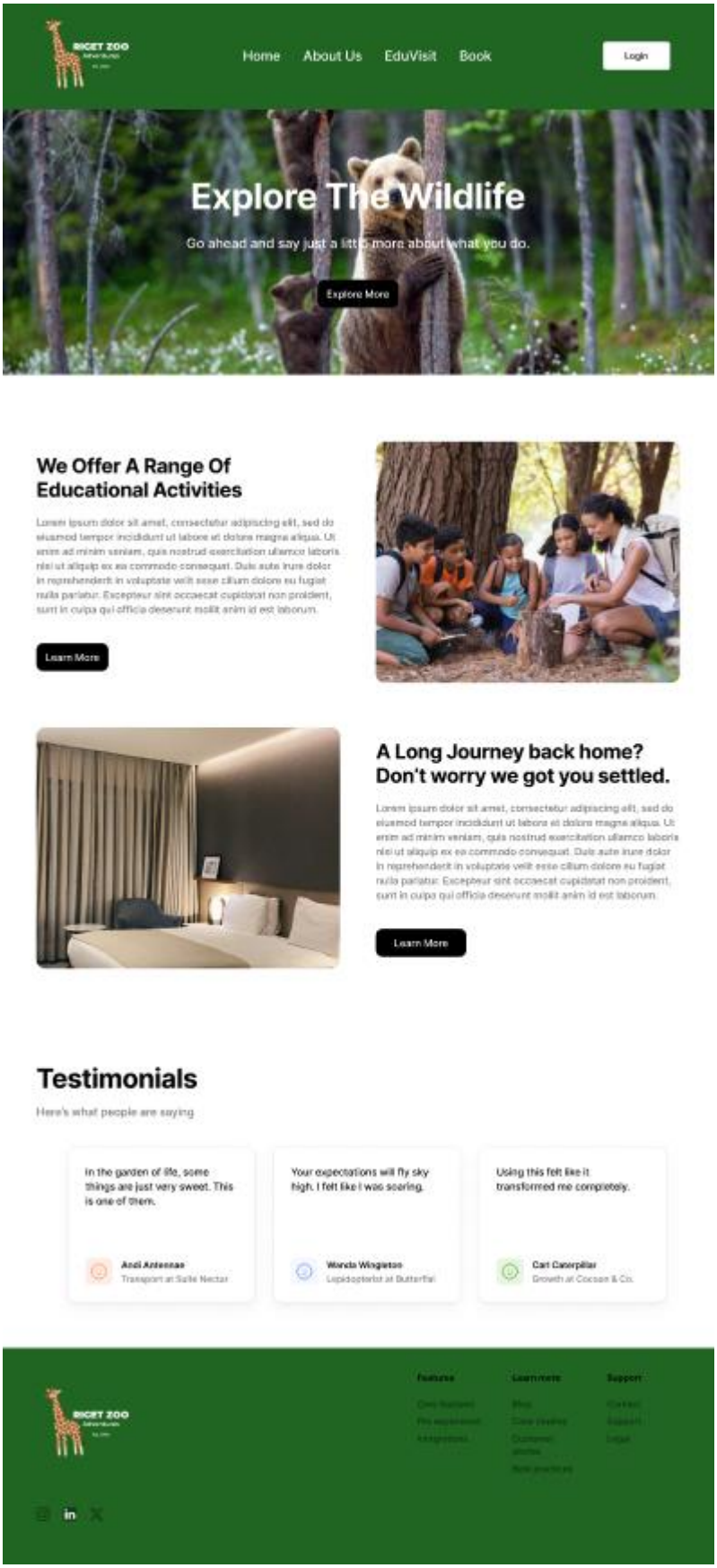
In the following pages, I will attach all the designs I have made using Figma. Please note that all designs may not be equivalent to the prototype.

Navigation Bar:



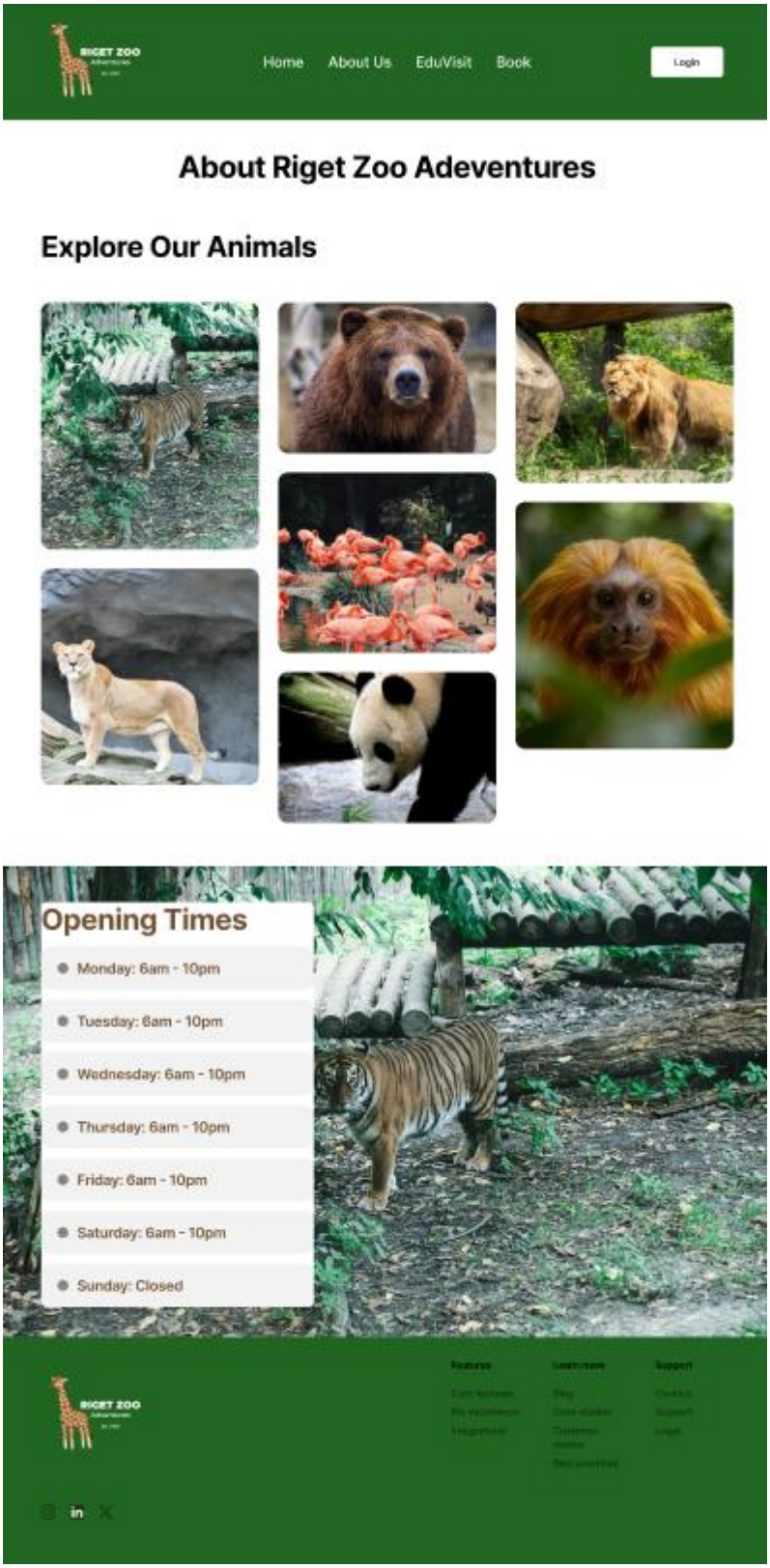
The navigation bar is made easily accessible and is continuous across all pages.

Home Page



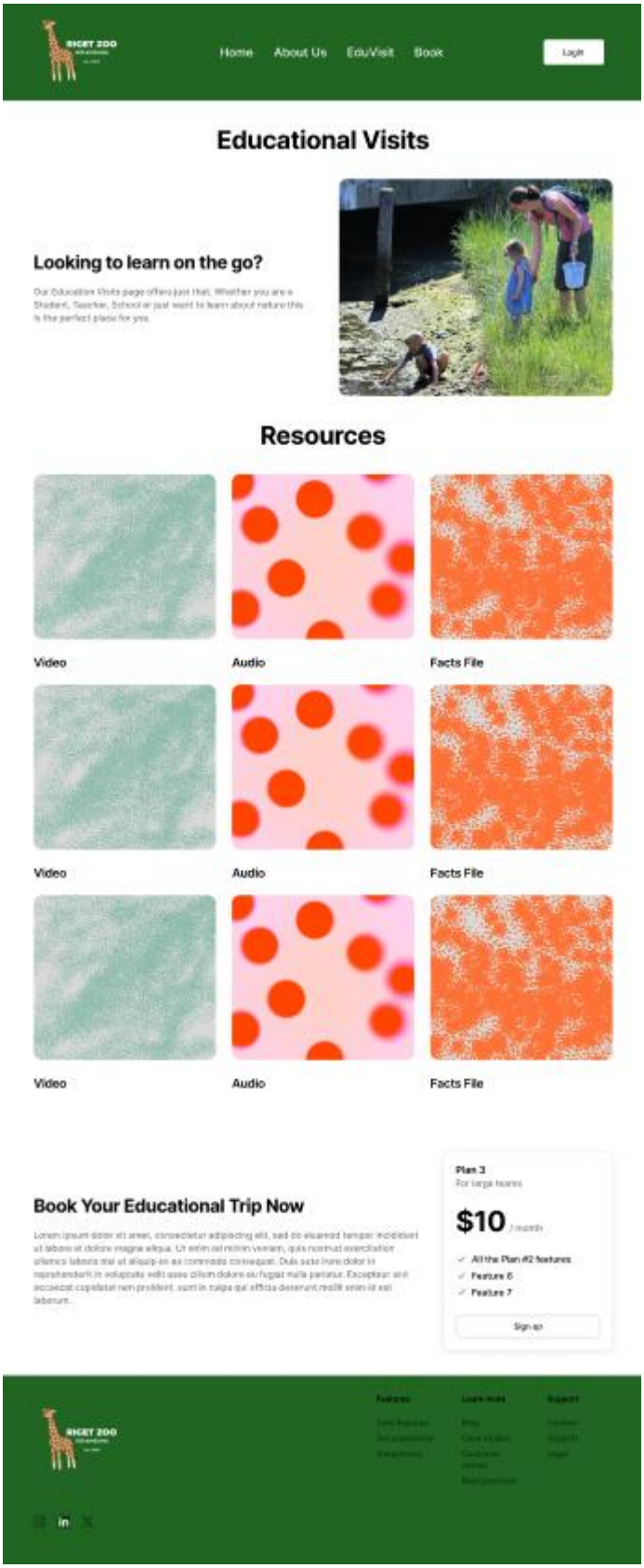
The Home Page consists of a neat hierarchal structure showcasing necessary aspects of a landing page. The Hero Image, What we can offer section and reviews makes this user friendly and easy to navigate.

About Page



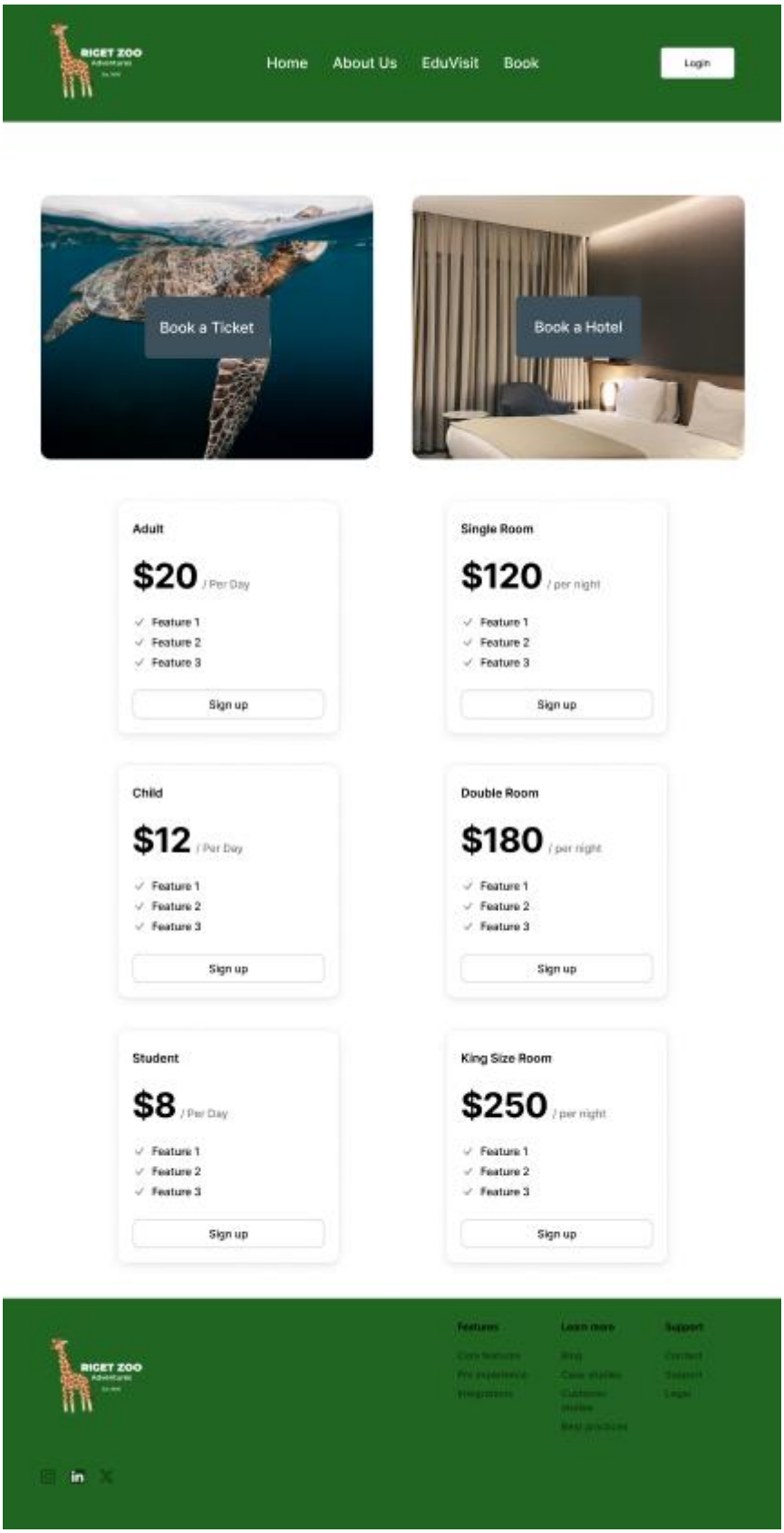
The About section showcases the animals they have at Riget Zoo Adventures while also having the opening times necessary for users to know when the zoo is open. The Home Page CTA button on the hero image takes us to this page when they want to explore more.

Educational Visits



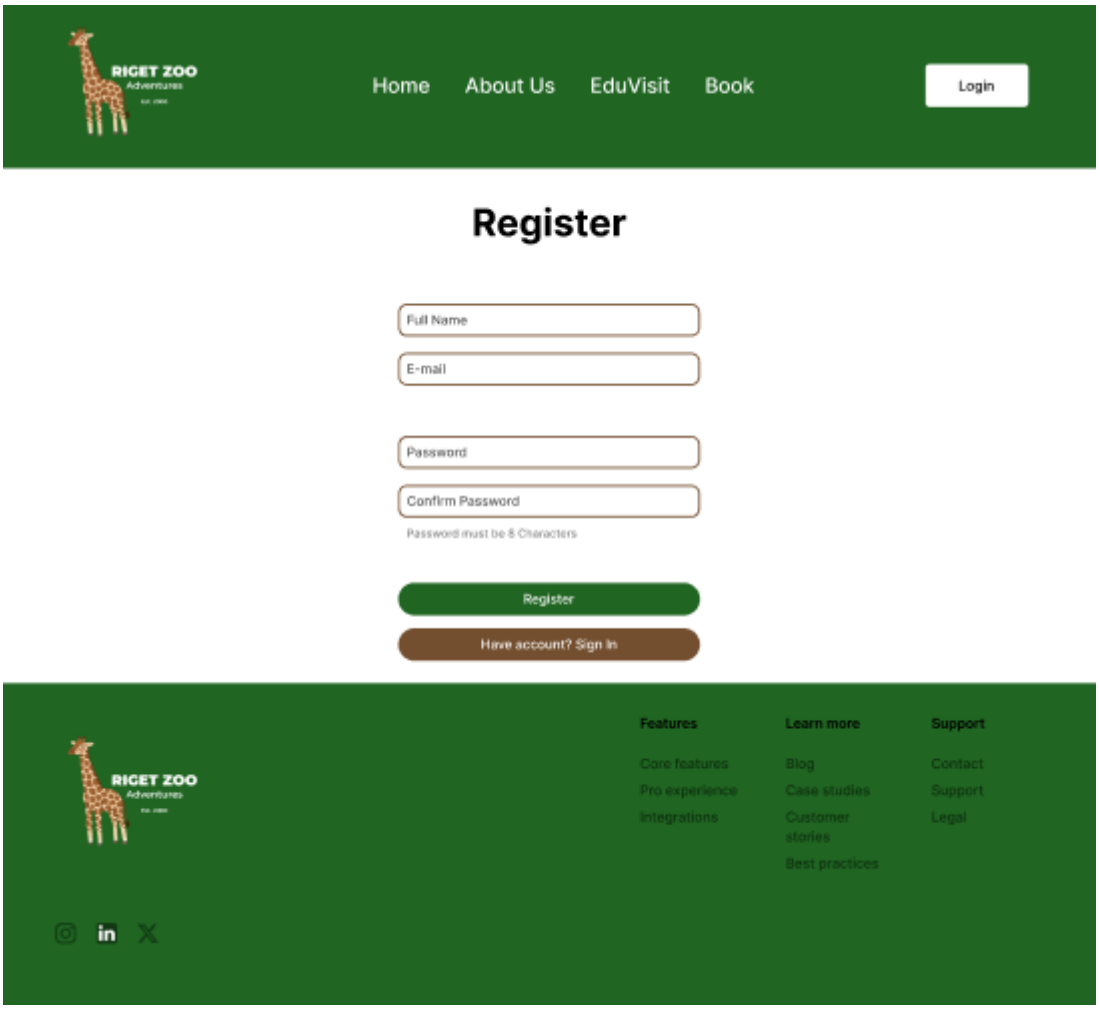
The Education Visit Page has a little description of who this is suitable for and Resources available for the users to see, whether that is Video, Audio or Facts File. Then a CTA booking at the bottom of the page when the user is satisfied.

Booking Page



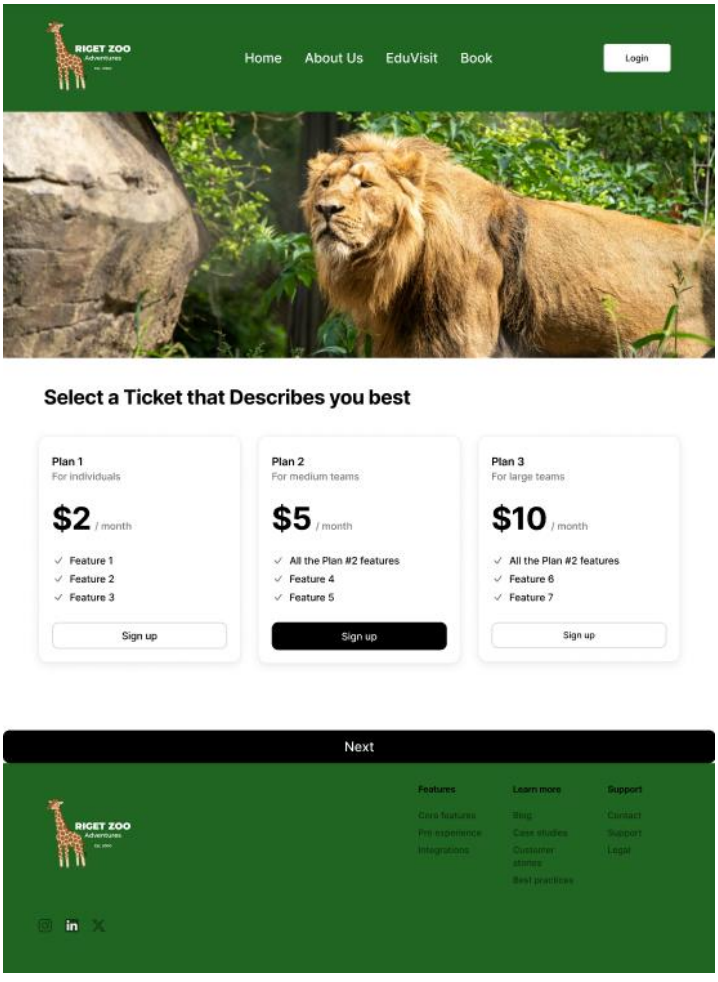
The Booking Page has a simple layout with CTA buttons depending on what the user wants and relevant pricing for what the user is interested in.

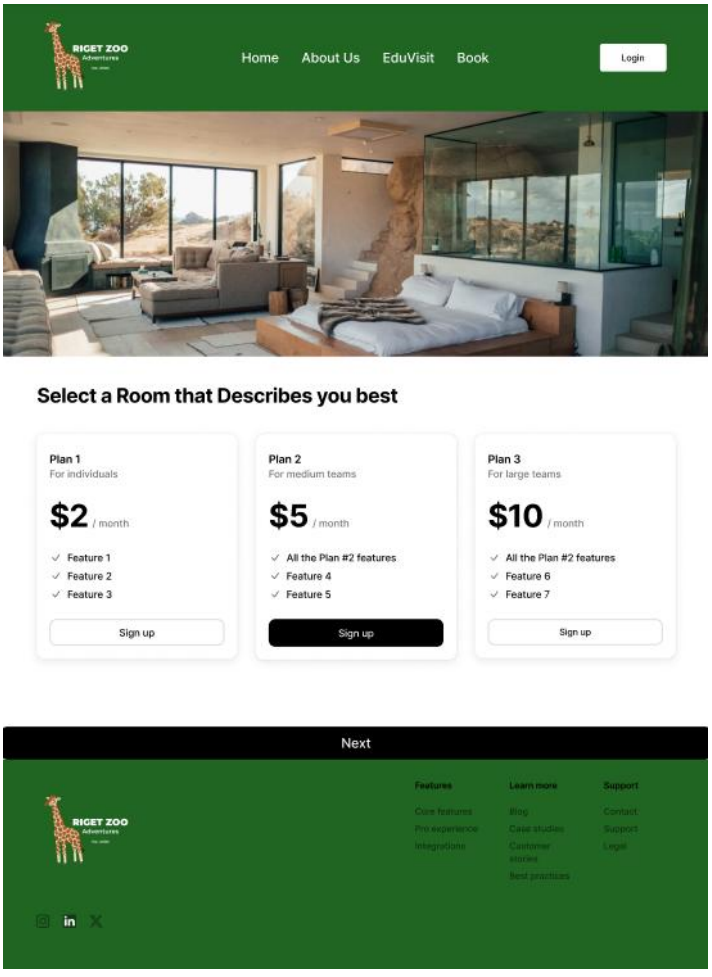
Login/Registration



The Login and Registration has a simple layout with relevant hex colours to go with the whole theme. It has all relevant functionality such as CTA buttons if you do or don't have and account, password requirement text and Forgot Password links.

Ticket/Hotel Booking:

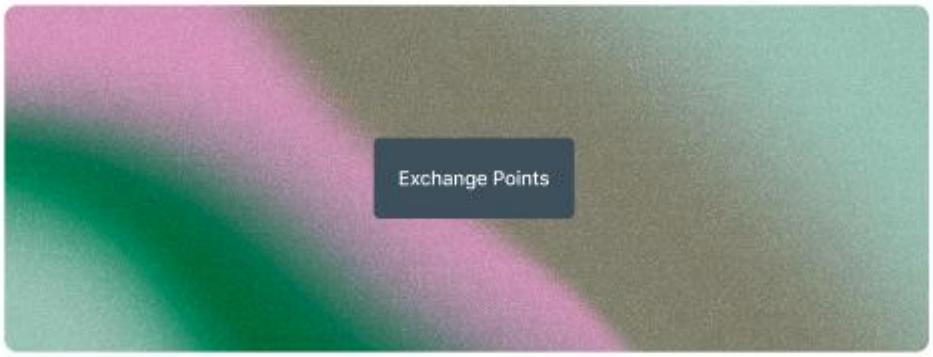




User Page

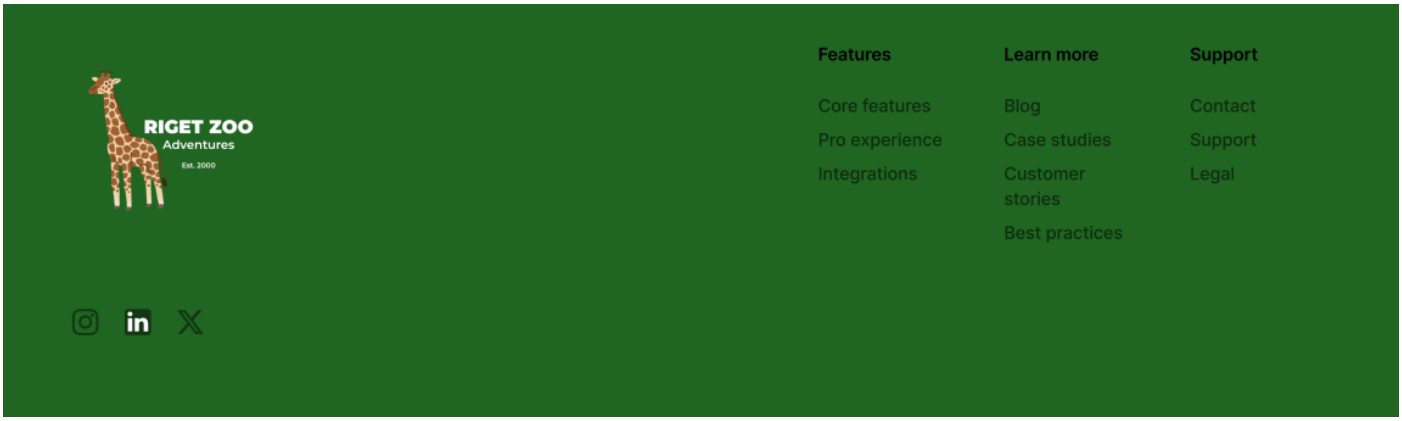
RIGET ZOO
Home
About Us
EduVisit
Book
Login
Welcome User
Points: 10
Bookings
Visits
LogOut

View My Bookings

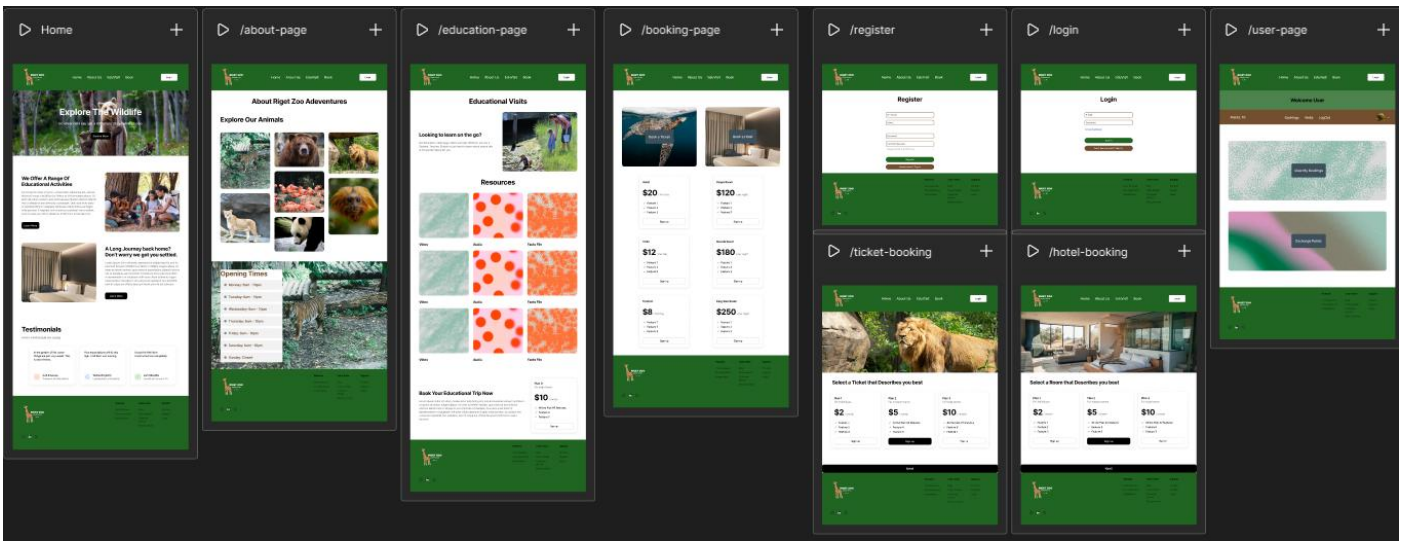

Exchange Points

RIGET ZOO
Features
Learn more
Support

Footer

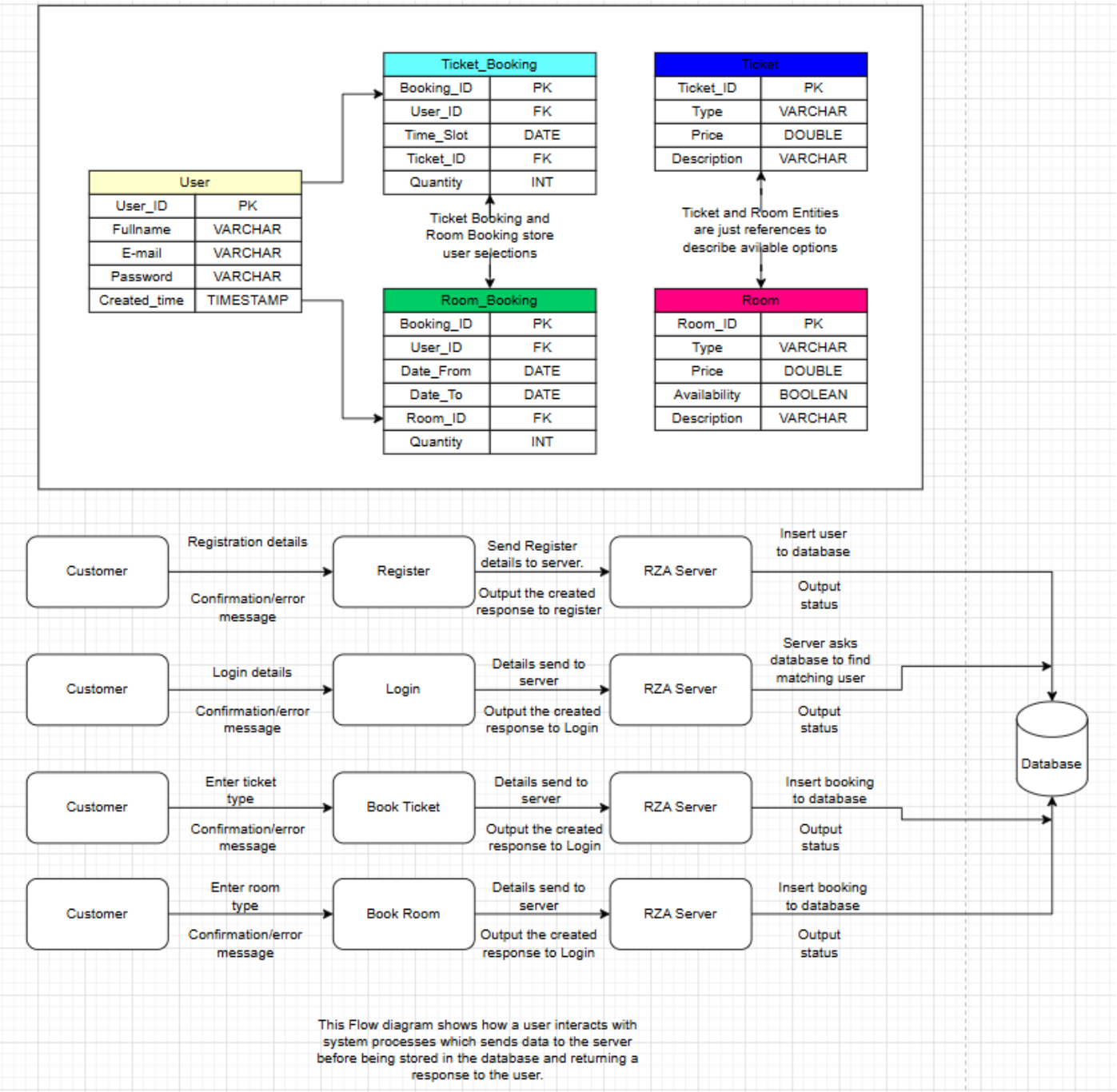


Overall Design



Data Requirements

ERD and Data Flow



Data Dictionary

User

Field Name	Data Type	Key	Description
User_ID	INT	PK	Unique identifier for User
Fullname	VARCHAR	-	Stores the users fullname
E-mail	VARCHAR	-	Stores the user's E-mail
Password	VARCHAR	-	Stores the user's password
Created_time	TIMESTAMP	-	Records when the account was created

Ticket_Booking

Field Name	Data Type	Key	Description
Booking_ID	INT	PK	Unique identifier for User's Booking
User_ID	INT	FK	Stores the User ID associated with the booking
Time_Slot	DATE	-	Records when the user booked their ticket
Ticket_ID	INT	FK	Unique identifier for the User's ticket
Quantity	INT	-	Records how many tickets were purchased

Room_Booking

Field Name	Data Type	Key	Description
Booking_ID	INT	PK	Unique identifier for User's Booking
User_ID	INT	FK	Stores the User ID associated with the booking
Date_From	DATE	-	Records the date from when the user is staying
Date_To	DATE	-	Records the date from when the user is leaving
Room_ID	INT	FK	Unique identifier for the User's Room
Quantity	INT	-	Records how many Rooms were booked

Ticket

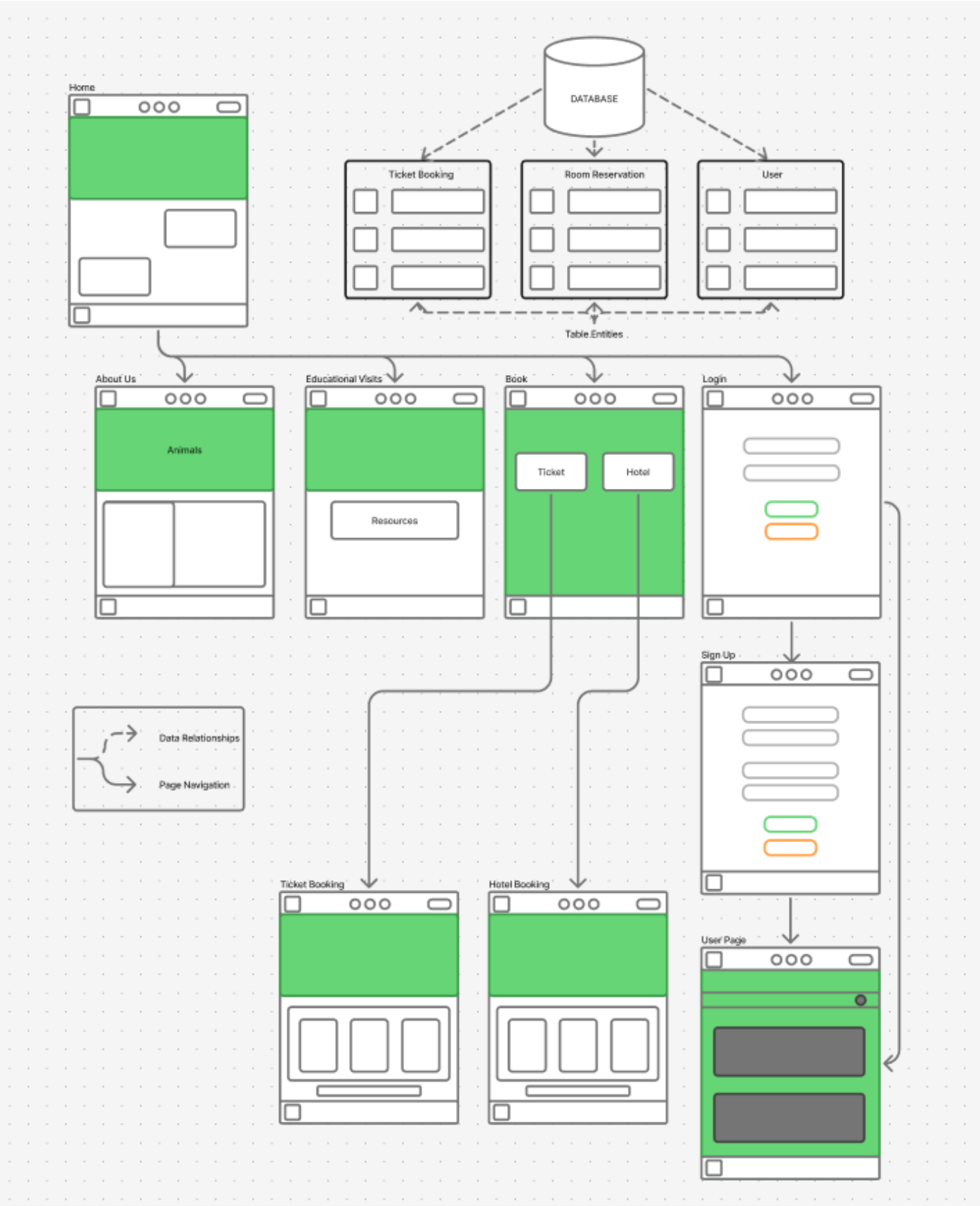
Field Name	Data Type	Key	Description
Ticket_ID	INT	PK	Unique identifier for each ticket option
Type	VARCHAR	-	Specifies the type of ticket, such as Student or Adult
Price	DOUBLE	-	Stores the price of the ticket
Description	VARCHAR	-	Ticket details

Room

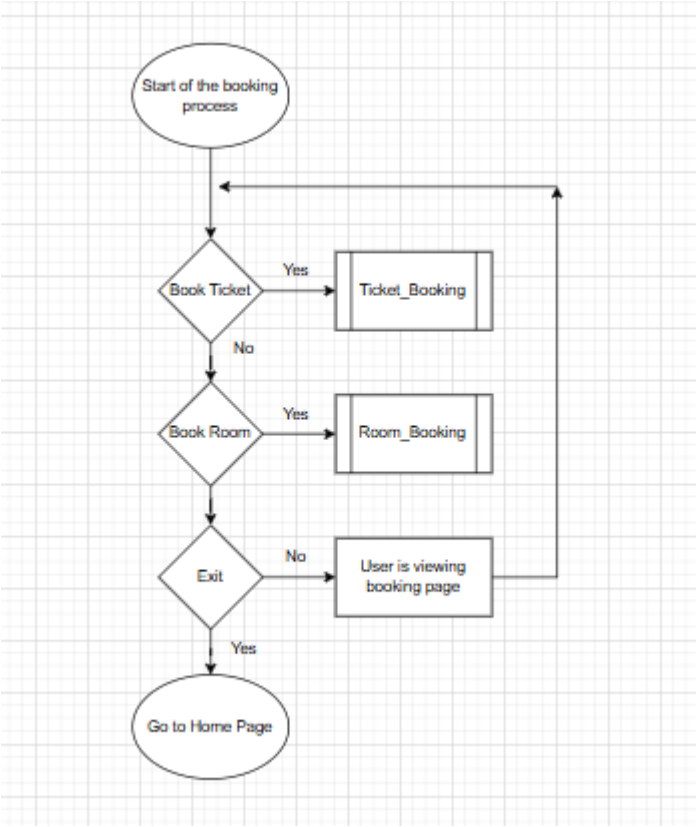
Field Name	Data Type	Key	Description
Room_ID	INT	PK	Unique identifier for each Room option
Type	VARCHAR	-	Specifies the type of Room, such as Single or Double
Price	DOUBLE	-	Records the price of the Room
Availability	BOOLEAN	-	Indicates whether the room is currently available.
Description	VARCHAR	-	Room details

Algorithm

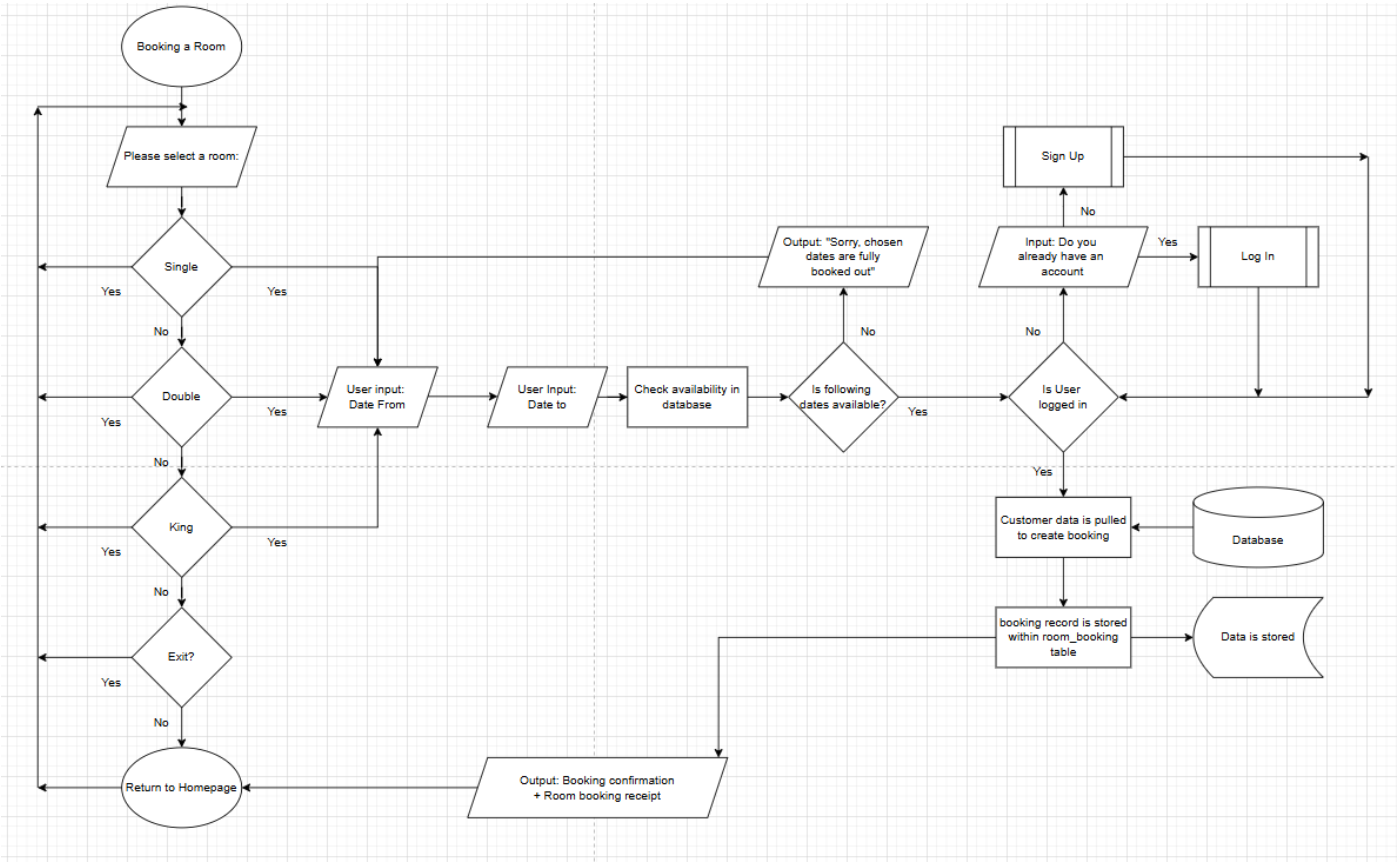
Wireframes/Flow



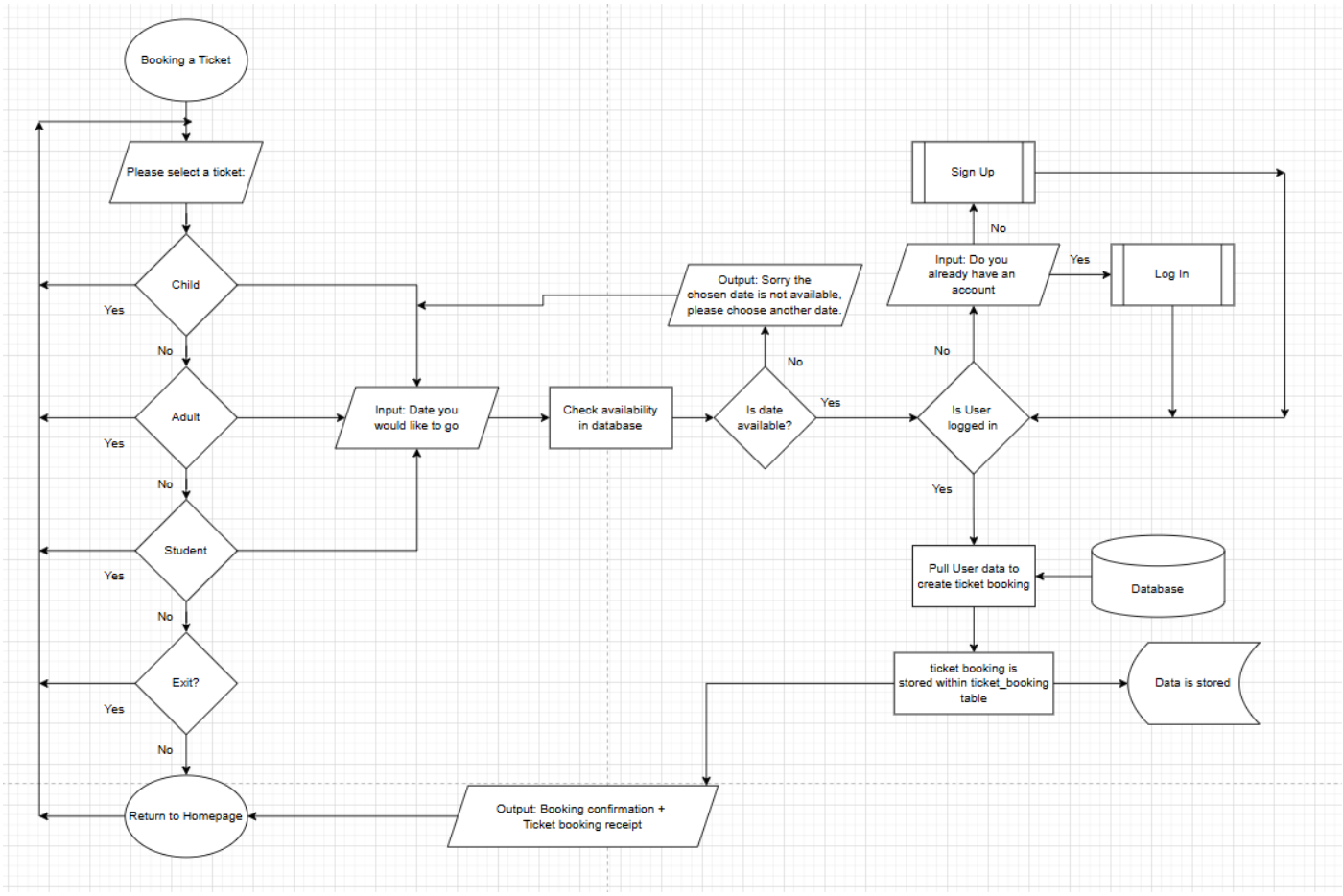
Booking system Flowchart main Logic



Booking system Flowchart Room Booking



Booking system Flowchart Ticket Booking



A Test Strategy

Considering the scope of the project, we are going to be using manual testing. However automatic testing can be used later on, when the program develops larger.

Date of test	Component to be tested	Type of test to be carried out	Prerequisites and dependencies
21st January 2026	**Navigation Bar**	**Black box testing, Functional Testing, Integration testing**	**No data inputs required. The tester will go through the navbar and see if all components are working properly and the correct pages are loaded. An example of this is clicking on the EduVisit button to ensure it goes to the education page.**

21st January 2026	**Homepage**	**White box testing, Black Box testing, Functional testing, Integration Testing, Unit testing**	**No data needed. Testing if all components are functional, e.g. buttons. Testing integration of homepage within the website so, e.g. it connects and navigates to other pages. Testing the homepage unit, e.g. Does all components load such as buttons and links.**
21st January 2026	**About Us Page**	**White box testing, Black box testing, Integration testing, functional testing, Unit testing**	**No data needed. Testing if all components are functional, e.g. buttons. Testing integration of About Us page within the website so, e.g. it connects and navigates to other pages. Testing the About Us page unit, e.g. Does all components load such as buttons and links.**
21st January 2026	**Education Visit Page**	**White box testing, Black box testing, Integration testing, functional testing, Unit testing**	**No data needed. Testing if all components are functional, e.g. buttons. Testing integration of Education page within the website so, e.g. it connects and navigates to other pages. Testing the Education page unit, e.g. Does all components load such as buttons and links.**
21st January 2026	**Booking Page**	**White box testing, Black box testing, Integration testing, functional testing, Unit testing**	**No data needed. Testing if all components are functional, e.g. price buttons. Testing integration of Booking page within the website so, e.g. it connects and navigates to other pages like ticket booking or hotel booking. Testing the Booking page unit, e.g.**

			Does all components load such as buttons and links.
21st January 2026	**Booking System**	**Database testing**	**Test if any errors are shown will executing queries. Test data needed for ticket booking: User_ID, Ticket_ID, time slot and quantity. Test data needed for room booking: User_ID, Room_ID, Date_From, Date_To and quantity.**
21st January 2026	**Login Page**	**White box testing, Black box testing, Integration testing, functional testing, Unit testing**	**No data needed. Testing if all components are functional, e.g. login buttons. Testing integration of Login page within the website so, e.g. it connects and navigates to other pages like user page and sign up page. Testing the login page unit, e.g. Does all components load such as buttons and links.**
21st January 2026	**Login System**	**Database testing**	**Test if any errors are shown will executing queries. Test data needed for Login system: E-mail, password**
21st January 2026	**Sign Up Page**	**White box testing, Black box testing, Integration testing, functional testing, Unit testing**	**No data needed. Testing if all components are functional, e.g. Sign up buttons. Testing integration of Sign Up page within the website so, e.g. it connects and navigates to other pages like user page and login page. Testing the Sign Up page unit, e.g. Does all**

			components load such as buttons and links.
21st January 2026	**Sign Up system**	**Database testing**	**Test if any errors are shown will executing queries. Test data needed for Login system: Fullname, E-mail, password, confirm password.**
21st January 2026	**User Page**	**White box testing, Black box testing, Integration testing, functional testing, Unit testing**	**No data needed. Testing if all components are functional, e.g. View my booking button. Testing integration of User page within the website so, e.g. it connects and navigates to other pages like view my booking page and redeem points page. Testing the User page unit, e.g. Does all components load such as buttons and links.**
21st January 2026	**Footer**	**Black box testing, Functional testing, integration testing**	**No data inputs required. The tester will go through the footer and ensure all links and navigation works as intended, such as clicking social media links to travel to social media pages. Also ensuring legal pages such as privacy policy and terms and conditions work as intended.**
21st January 2026	**Navigation Bar**	**Black Box testing, compatibility testing, functional testing.**	**OS needed: IOS, MacOS, Windows, android** **Browsers: Chrome, Safari, Edge Firefox, Brave or Opera.**

21st January 2026	**Home Page**	**Black Box testing, compatibility testing, functional testing.**	**OS needed: IOS, MacOS, Windows, android** **Browsers: Chrome, Safari, Edge Firefox, Brave or Opera.**
21st January 2026	**About Us Page**	**Black Box testing, compatibility testing, functional testing.**	**OS needed: IOS, MacOS, Windows, android** **Browsers: Chrome, Safari, Edge Firefox, Brave or Opera.**
21st January 2026	**Edudcation Page**	**Black Box testing, compatibility testing, functional testing.**	**OS needed: IOS, MacOS, Windows, android** **Browsers: Chrome, Safari, Edge Firefox, Brave or Opera.**
21st January 2026	**Booking Page**	**Black Box testing, compatibility testing, functional testing.**	**OS needed: IOS, MacOS, Windows, android** **Browsers: Chrome, Safari, Edge Firefox, Brave or Opera.**
21st January 2026	**Login Page**	**Black Box testing, compatibility testing, functional testing.**	**OS needed: IOS, MacOS, Windows, android** **Browsers: Chrome, Safari, Edge Firefox, Brave or Opera.**
21st January 2026	**Sign Up Page**	**Black Box testing, compatibility testing, functional testing.**	**OS needed: IOS, MacOS, Windows, android** **Browsers: Chrome, Safari, Edge Firefox, Brave or Opera.**

21st January 2026	**User Page**	**Black Box testing, compatibility testing, functional testing.**	**OS needed: IOS, MacOS, Windows, android** **Browsers: Chrome, Safari, Edge Firefox, Brave or Opera.**
21st January 2026	**Footer**	**Black Box testing, compatibility testing, functional testing.**	**OS needed: IOS, MacOS, Windows, android** **Browsers: Chrome, Safari, Edge Firefox, Brave or Opera.**