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Kingdom of Saudi Arabia
Ministry of Education
Imam Abdulrahman bin Faisal University
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CIS 422 – Human Computer Interaction
Term 4 – 2022/2023

For

[MyTrip System]

MyTrip

CS Year 4, G4

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1.Introduction

MyTrip is a system that enables users to plan their trip in the cities of the Kingdom of Saudi Arabia to promote domestic tourism. The system offers a variety of packages based on the events that each city holds. These activities include cultural and educational events. Users will plan their trip based on the packages available.

Users can choose a package based on their preference by specifying the number of days of stay, the number of people, in addition to the activities that he wishes to visit during the trip. Users can modify these packages to suit their preferences. This report will discuss similar systems to Mytrip and will evaluate their usability. A paper mockup using balsamic and a software prototype using Axure will be used to view and illustrate Mytrip system functionality.

2.Literature Review of Similar System

This section focuses on determining similar systems (Wafy, Meshini, Saudia holidays) to Mytrip, which is a system that enables users to plan their trip in the cities of the Kingdom of Saudi Arabia to promote domestic tourism. The system offers a variety of packages based on the events that each city holds. These activities include cultural and educational events. Users will plan their trip based on the packages available. Users can modify these packages to suit their preferences. Similar systems will be examined for their usability characteristics.

2.1 Wafy

Usability characteristics:

2.1.1   Navigation

An application's navigation is a key success factor because it enables users to access the necessary information easily. The homepage of the system enables the ease of task navigation to all the provided system services
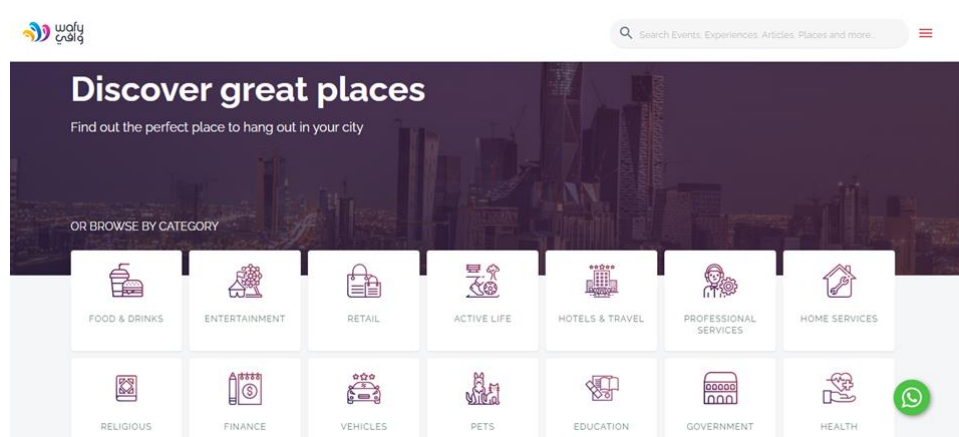

Figure 1: Discovering places page

2.1.2   Memorability

Memorability is the measure that indicates how easy it is to remember how to use a product once you have learned how to use it [1]. Wafy will make it easy for users to recall the basics of using the website. Wafy helps users remember the system operations by using meaningful icons, commands, and menus.

2.1.3   Use of primary interaction styles

Direct manipulation is used to make selections based on spatial attributes (such as location, orientation, and shape) and menu selection indicates the user's distinct choices which will encourage user exploration and will support the visual representation of the tasks effectively as it shown in the figure
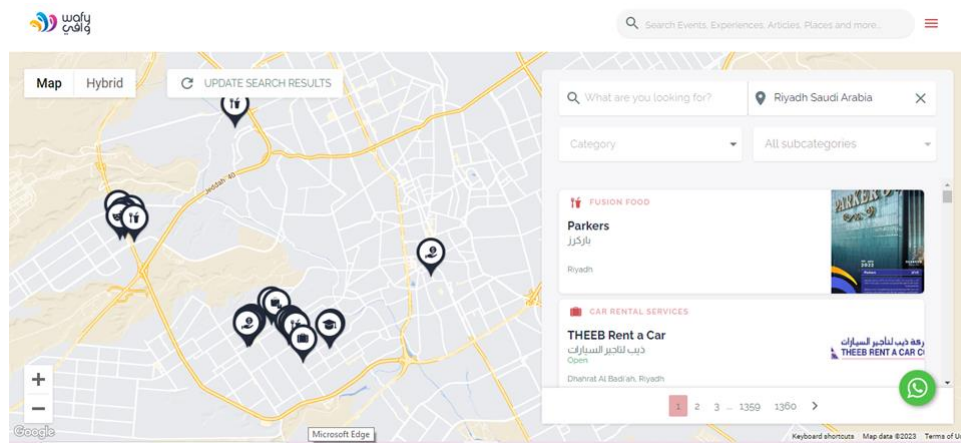

Figure 2: Use of The Interaction Styles

2.1.4   Offer Simple Error Handling

Errors should be avoided as much as possible when designing an interface. Nonetheless, if something goes wrong, the system should be able to explain the situation and help users resolve it [2]. Displaying clear error notifications and descriptive hints can help solve errors quickly. Wafy provides informative error messages for users to get to know what exactly happened while performing an action. The following figure illiterates an example of error messages in Wafy website, if you enter incorrect login information when you log in.
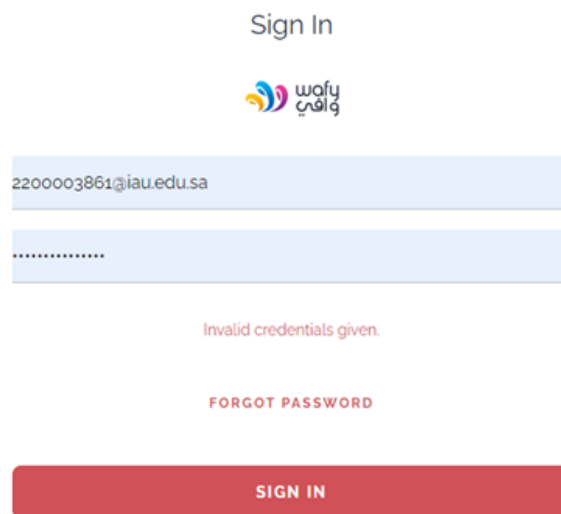

Figure 3: Login error massage

2.2 Saudia Holidays

Usability characteristics:

2.2.1 Ease Of Use

Saudia Holidays website is characterized by the ease of use, which is an essential feature that must be taken into consideration to match several education levels in a way that makes it easy to learn for people with low educational levels in a way that will not affect the perspective of people with high education to guarantee the usability of the site. An indication of ease of use can be found in the way that a website is designed. Saudia Holidays provide an informative description and graphic ordered in efficient manner for the targeted audience where users can easily identify what task they want to perform and how.

2.2.2 Informative Feedback

A human-readable response should be available for every action within a reasonable time limit. This way, users can keep track of what is happening [3]. After signing in operation conducted successfully, the website will send a message to inform the users that they signed in as it shown un figure 4.
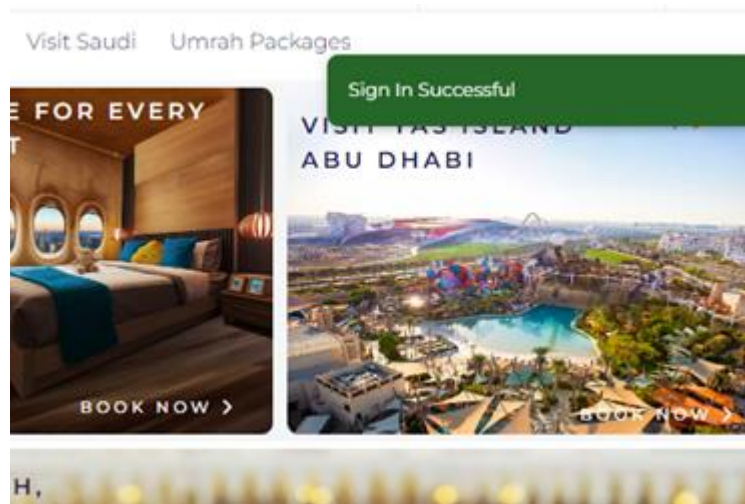

Figure 4: Saudia Holiday informative feedback

2.2.3Aesthetic and minimalist design

User interfaces are dominated by minimalist designs for a reason. Information should only be displayed on an interface if it is relevant. Things that are rarely needed should not be included in designs. When unimportant components are included in a design, their visibility and importance are reduced. Saudia Holiday is designed in a way that focuses on the essential content and the visual design, which is the targeted audience are interested in, the following figure show the homepage of Saudia holiday where the menu bar includes few menu options that support the user's primary goals.
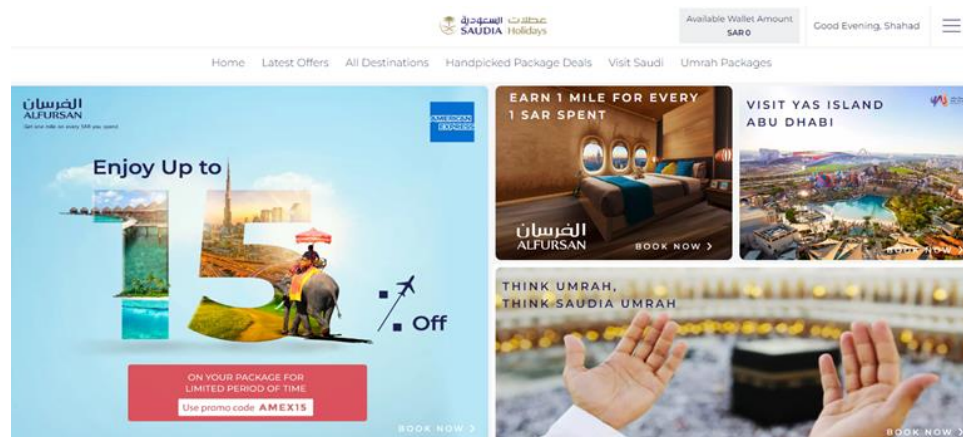

Figure 5: Saudia Holiday Homepage

2.2.4 Efficiency

An efficiency goal describes how a system helps users accomplish tasks. By minimizing time and other essential resources needed, the product will be able to accomplish the task efficiently. In Saudia Holiday, when users enter their personal information for contact in their settings, they will not have to reenter their entire information when booking because the system is familiar with all the users' information in the settings.

2.3 Meshini

Usability characteristics:

2.3.1 Engagement

As a result of its distinctive colors and the ease of distinguishing each section from the other, Engagement has the ability to attract users once he finds the product attractive. An engagement's design is more than just its beautiful shape, but also how the components of it are arranged in a way that is commensurate with the page's design. The MESHINI website illustrates how engagement can work effectively, since it offers a good balance between user consideration, appropriate layouts, and easy navigation.

2.3.2 Learnability

Page design should be as simple as possible so that the user can understand all the features of the site and find the components quickly. In order to maintain the visual look you want, MESHNI can make all events, shows, flights, and hotels background images, with more distracting content above the fold so that the user can concentrate on learning how to navigate.

2.3.3 Error tolerance

In order to make the process easy for the user, the website should be as error-free as possible. If mistake does occur, a system should be set up so that the user can easily return to the previous step. MESHINI It ensures that the user remains within the navigation of the site and is not excluded from the page, so that he can fill out the necessary fields in a manner that is appropriate for the form in which he is filling in information.
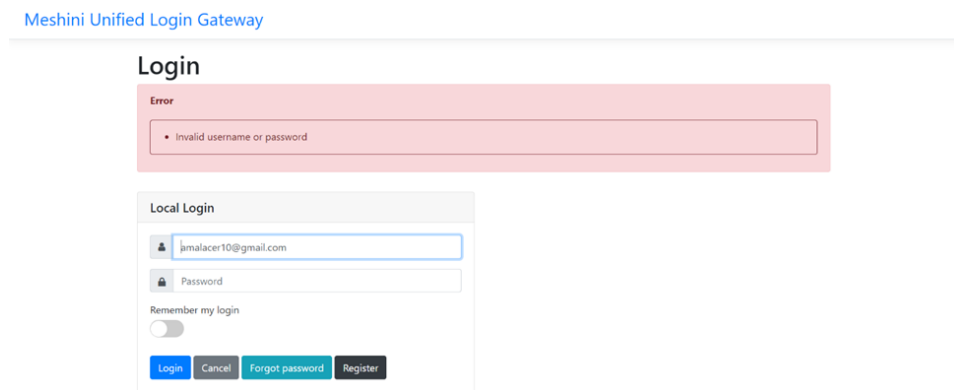
Figure 6: MESHINI Login Page

2.3.4 Memorability and retainability

There is a feature that must be taken into consideration when designing the site, and to do this we have to bear in mind the capacity for the user to remember and retain those things, so they will be able to return to the site after some time without having to learn how to use it all over again. MESHINI It is one of the sites that the user will be able to remember because it provides easy interfaces to deal with, and each section of the site is clearly distinguished from the other so that users do not lose focus.

2.4 Desert Land

Usability characteristics:

2.4.1Satisfaction

A system that achieves user satisfaction will be more effective in converting users as it achieves greater functionality. This satisfaction is in part due to things such as how an event was described, how the headlines described it, and the unique colors associated with it. The Desert Land website achieves this feature by providing the user with all the comfort and satisfaction he might need in order to generate a user-friendly experience that makes it an excellent website for the user to interact with

2.4.2 Efficiency

An important concept which needs to be achieve is efficiency since it means how quickly the user will be able to perform tasks once he learns to use the site. One way of improving efficiency is to include hidden instructions in the functions in order to guide the user on how to use the site. Desert Land serves the purpose of achieving efficiency by guiding the user of the application by shading the lock in a gray color so that he knows the package out of stuck without having to click on it directly, and in yellow so that he knows the package is still available if he wants to purchase it.
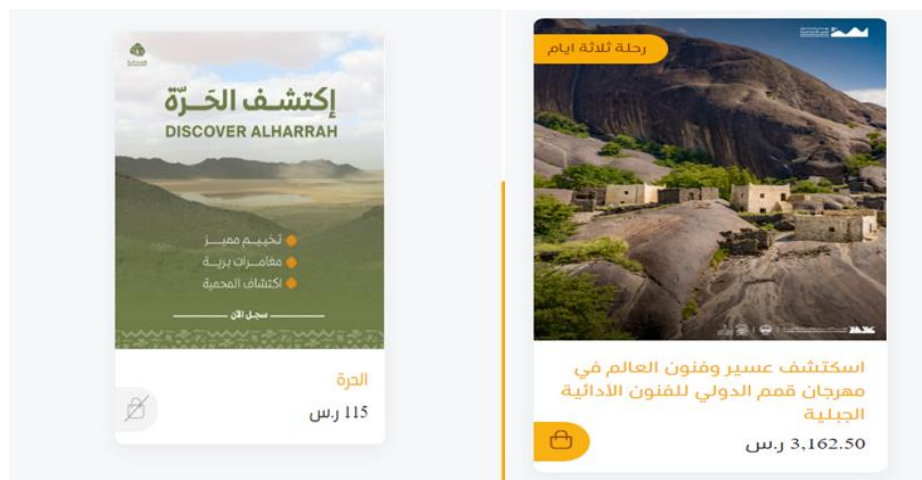

Figure 7: Desert Land Sales Page

2.4.3 Error Prevention

The system should achieve the goal of preventing errors by giving clear and appropriate suggestions to the user when required so that all the information can be entered correctly and the system can prevent errors. A desert is a website that prevents errors from happening from the beginning, as it provides the user a detailed explanation of what form he or she needs to enter in the registration field, as shown in the following image.
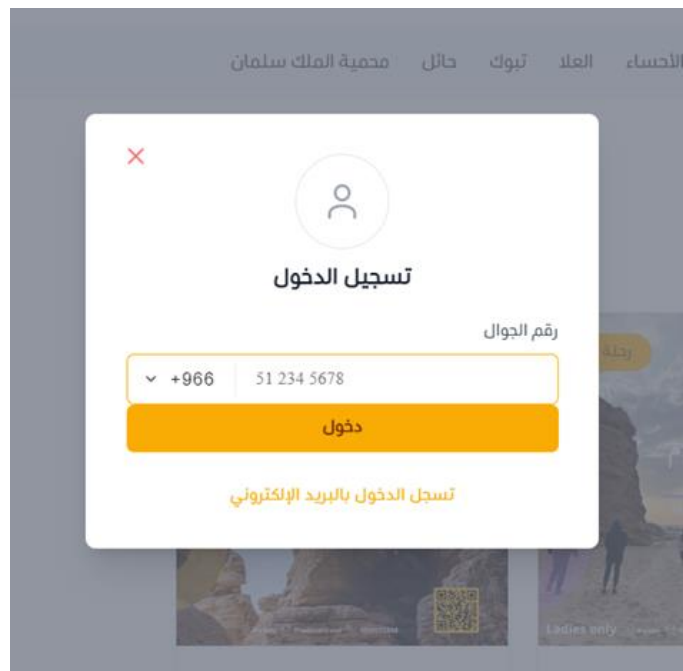

Figure 8: Desert Land Log In Page

2.4.4 Visibility of System Status

It is important to clarify the status of the user's request so that he can be assured the event has been completed correctly and is not left in a waiting state after the event has taken place. As soon as the user clicks on the lock icon, the package will be transferred to the second stage, which is the basket, so the user is informed that the package is being loaded into the cart. There is a loading bar to show the package being loaded into the cart, and then the user is informed that the package has been added successfully as portrayed in the pictures below.
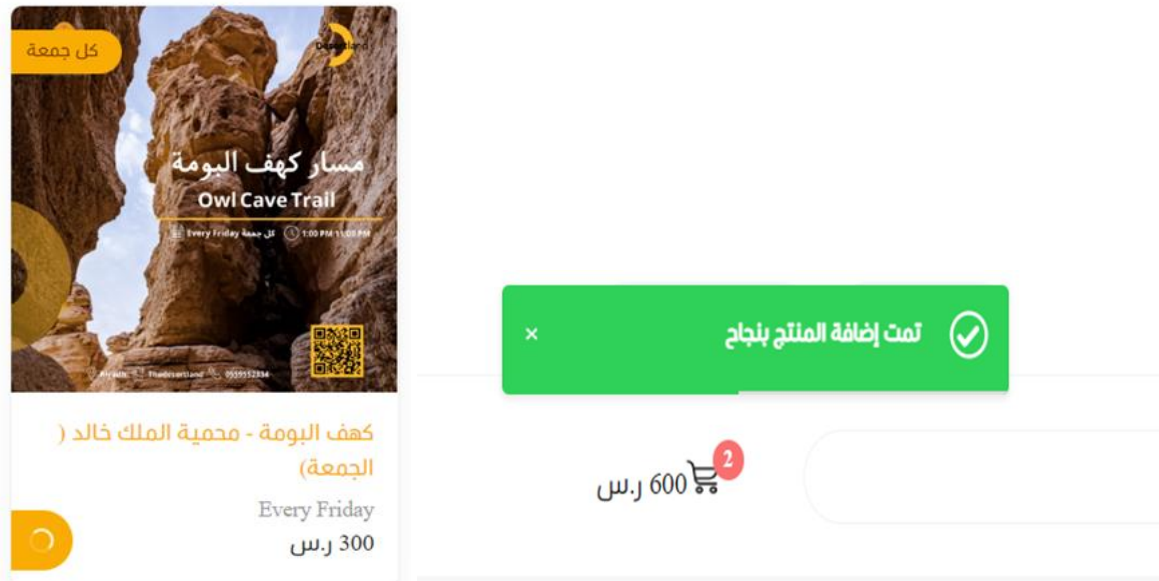
Figure 9: Desert Land Sales Page

2.5 Desert Land

Usability characteristics:

2.5.1 Aesthetic and minimalist design

it is better to set up priorities for a webpage in order to displace some components that do not need their presence on a page and to make it easier for the user to navigate. There is only basic information provided by DEIRA, and additional features can be found in other sections under About so as to achieve a user experience that is simple, easy to understand, and without being distracted by too many features.
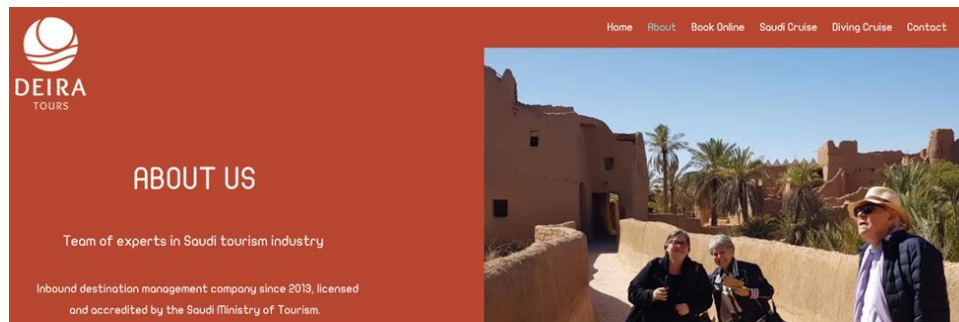

Figure 10: Deira Tours Homepage

2.5.2 Match between systems and the real world

It is important to avoid confusion by using terms and symbols that are familiar to the audience when using the appropriate and familiar language for them. In this way, the user will be able to learn how to use the site and remember it more easily. Considering the target audience of DEIRA is foreign tourists, DEIRA adopts English as its unified language, since it uses familiar terms and vocabulary, and is dealt with on a daily basis, in order to communicate effectively.

2.5.3 Recognition rather than recall

Due to the fact that humans have a short memory, it is important that there not be a need for the user to remember information from the previous interface, since doing this will make it much more difficult for the user to use the website. With DEIRA, vital information is visible and easy to check out in a simple, easy-to-use manner for the user, saving them time and effort, and by providing assistance, they can reduce the amount of information they must remember themselves.

2.5.4 Help and documentation

The user must be helped in all ways by ensuring that a clear set of steps is provided to them that must be followed in order to accomplish the tasks in a satisfactory manner. In the DEIRA website, when planning a trip or browsing the packages and events to be used, there is a section displaying the steps by which the tourist must follow in order to fully experience an unforgettable tour.

Notes:

• Maximum capacity 4 people.

• VAT 15% is included in the cost mentioned above.

• As per Covid-19 regulations, all guests are required to wear a mask and an active Tawakkalna account.

• Any pre-existing medical conditions and the ability to swim must be informed prior of booking.

• For the open sea trip, original ID Card (for residents) or passport (for visitors) must be present for the boat to leave the marina.

• Open sea trips may be canceled by the Coast Guard due to weather or any other foreseen circumstances.

• Other additional services are available (Total cost may change).

• An e-mail will be sent after checkout with the location, Kindly make sure the information provided is correct.

• Don't hesitate to contact the Operation Team Via WhatsApp Link: https://chatwith.io/s/deira-tours Number: +966541197984

Figure 11: Deira Tours Package

3.User Analysis

Our project is concerned with serving those interested in travel and tourists and provides additional services as special discounts for students, families, corporate employees, the elderly, and people with special needs. The system enables tourists to book a package of available events, restaurants, cafes, and hotels with ease on their current trip.

We have provided services in the system in line with the needs of users, including facilitating the reservation and payment process, facilitating the cancellation process, easy refund upon cancellation, easy modification of the reservation. Supports the system with special needs, for example: we have provided features for the blind where a voice speaker has been provided. There are also previous reviews of tourists, which helps new users to know the general opinions of the places. We also provided font size control, which helps the elderly.

The features have been linked to usability as the system deals with each specific category, as each category has specific options such as: the elderly and people with special needs that facilitate the emergence of choices of places and hotels that have wheelchair entrances.

4.Task Analysis

View different trip packages: The system displays the various packages from the trips, and the user can choose one of the offered packages. When selecting one of the packages, the system will display the contents of the package, which is flight reservation, place of residence, heritage activities, recreational activities in the region, and means of transportation.

After that, the user will specify the place of departure and arrival, and then the date of going and returning to book the flight. After that, the user will specify the number of days of stay and the number of people. After the selection, the details of the place of residence available for this package will be displayed, as well as the heritage activities and recreational activities, and the user will choose the activities wishing to visit, upon completion of the selection, the means of transportation that will transport the user to these activities will be displayed.

The system enables the user to rate the package chosen, and the activities visited and give feedback on the activities It also displays ratings and comments on the packages offered, as well as on the heritage and cultural activities, so that the user can choose the appropriate one based on its preference. The system allows the user to customize where he can specify its preferences for cities and activities. User can also customize the language and currency to suit the language and the currency used in the user country.

Also, when joining the program, the designed system will allow registration in several ways to make it easier for users, either through a Google account or a phone number. The system is characterized by ease of use, as it allows different people with different backgrounds and educational levels to interact with it by making the sequence of tasks regular and easily understandable. The system is also characterized by the ability to prevent error by making the options limited, for example when we mentioned that the user will specify the date of departure and return, the date will be determined by the displayed calendar and not by writing it. We have made to the user an option to select the activities what place to visit, as specific fixed activities will not be specified for the package, but we have set the option for the user to choose the appropriate activities to suite age and preferences for various users, and this makes the system usable and preferred for all age groups.

5.Paper Prototype (Balsamiq)

This section will present the paper prototype (using Balsamiq) for both a web site and a mobile application of MyTrip system

5.1 Website Paper Mockup

5.1.1 Home page

This page is start of our mobile application and it will allow user to join our application by click on start button.
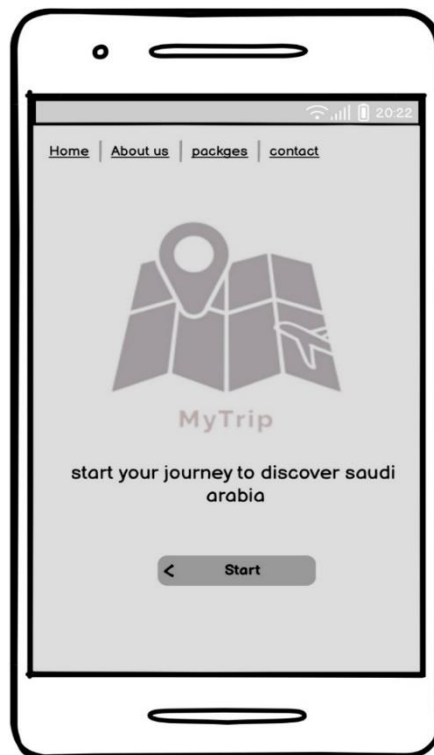

Figure 12: Application Homepage

Table Below show each button with functionality:

Button	functionality
Start	Start button will take user to login page
Links	1. Home link will refresh the page 2. About Us link will take user to About Us page 3. Packages link will take user to Packages page 4. Contact link will take user to Contact page

Table 1 "application Homepage"

5.1.2 Login page

This page enable user to login if he has account by entering phone number or email and password. If user do not have account, he will click on Join us now link and it will navigate to sign up page.
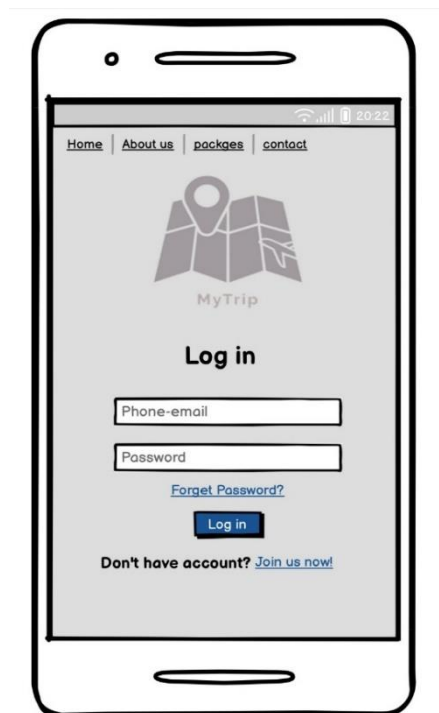
Figure 13: Application

Login page

Table Below show each button with functionality:

Button	functionality
Log in	will take user to Packages page
Links	1. Home link will refresh the page 2. About Us link will take user to About Us page 3. Packages link will take user to Packages page 4. Contact link will take user to Contact page 5. Join us now will take user to sign up page

Table 2 "Log in page"

5.1.3 Sign up page

This page enable user to sign up if he do not have account by entering Required information showing in below figure.

Figure 14: Application Sign up page

Table Below show each button with functionality:

Button	functionality
Sign up	will take user to Packages page
Links	6. Home link will refresh the page 7. About Us link will take user to About Us page 8. Packages link will take user to Packages page 9. Contact link will take user to Contact page 10. Learn more Link will take user to About us page

Table 3 "Sign up page"

5.1.4 Profile page

This page show information about user such as his email and phone etc.. , Also enable user to change language and font size and app appearance.
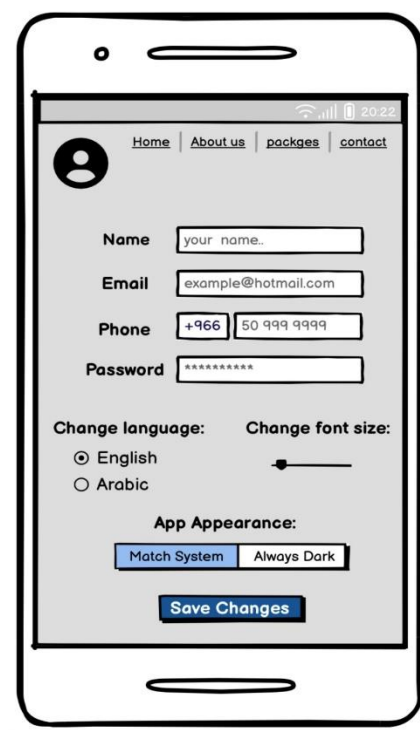
Figure 15: Application Profile page

Table Below show each button with functionality**:**

Button	functionality
Save change	will save the updated information or setting
Links	11. Home link will refresh the page 12. About Us link will take user to About Us page 13. Packages link will take user to Packages page 14. Contact link will take user to Contact page

Table 4 "Profile page"

- Proudct page

This page show Prackges user can choose packge by click in the picture
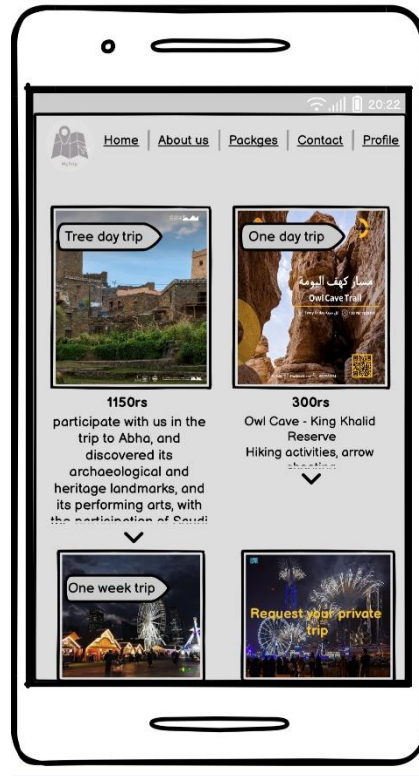
Figure 16: Packges page

Table Below show each button with functionality :

Button	functionality
Pictures	will take user to find flight page

Links	1. Home link will refresh the page 2. About Us link will take user to About Us page 3. Packges link will take user to Packges page 4. Contact link will take user to Contact page 5. Profile link will take user to Profile page

Table 5 "Proudct page"

5.1.5 Find Flights Page

On this page, the user is able to book a flight by specifying the destination from his city to the destination he wishes to travel to, specifying the time of departure and return, the number of passengers, and the category of travel in which he wishes to book the flight. MyTrip also allows you to make arrangements for a taxi or metro ride once you have booked the flight, so that you

are not stuck waiting at the airport for hours.
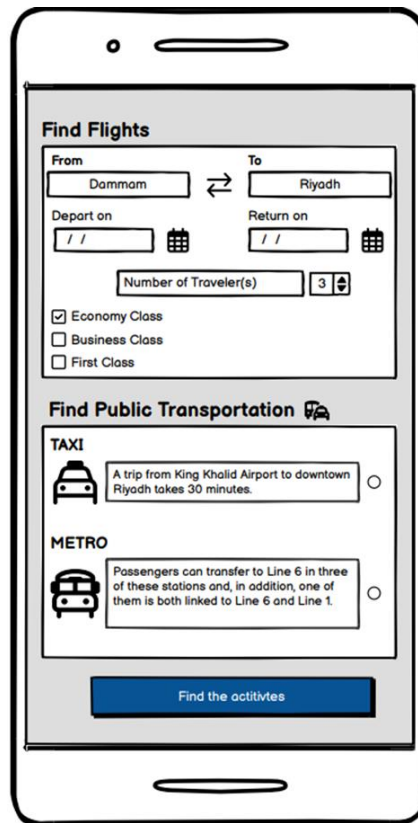
Figure 17: Application Find Flights page

Table Below show each button with functionality:

Button	functionality
Go to the cart	The user will be directed to the cart according to the information he selected, such as the event and flight reservation.
Links	15. "Go to cart" will take user to the cart page.

Table 6 "Find flights page"

5.1.6 Your requested trip Page

"My Trip" doesn't force the user to book a flight as there is a possibility that the user is already in the city where the event will take place; instead, the user will be able to choose the city and the time period for the trip to be taken, after which it will be added to their cart. For an unforgettable experience, the user will need to fill out a form with his first name, mobile number, preferred method of transportation, and any notes he would like to include.

Figure 18: Application Your requested trip page

Table Below show each button with functionality**:**

Button	functionality
Add to the cart	A user will be taken to the cart page after submitting the information through this event
Links	16. "Add to cart" will take user to the cart page.

Table 7 "Your requested trip page"

5.1.7 Shopping Cart Page

The activity selected by the user will appear on the cart page, displaying the event reservation date and time as well as specifying the quantity reserved. The total will be calculated based on this quantity at the bottom of the page. We also offer the possibility of entering promo coupons until they are deducted from the total in order to make sure our users enjoy using the site.
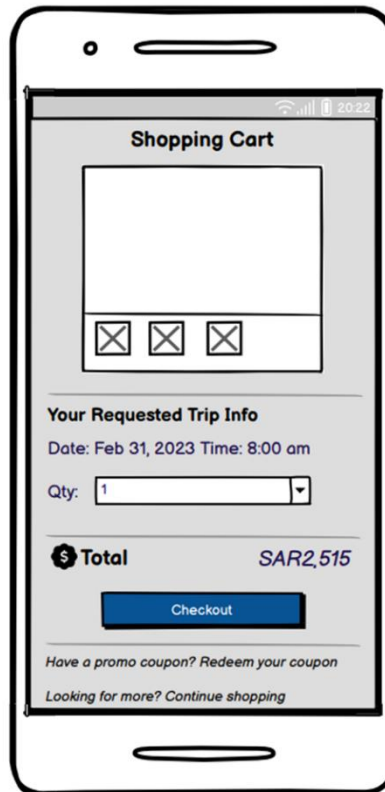
Figure 19: Application Shopping cart page

Table Below show each button with functionality**:**

Button	functionality
Checkout	To complete the payment process, the user is taken to the checkout page.
Links	17. "Checkout" will take user to the Checkout page.

Table 8 "Shopping cart page"

5.1.8 Checkout Page

The payment process cannot be completed without some information being provided in order to complete the payment process, for example, specifying the preferred payment method for the user to communicate with him and notify him of safety issues. In order to avoid having to go back to the shopping cart page, the final total is displayed at the bottom of the page.
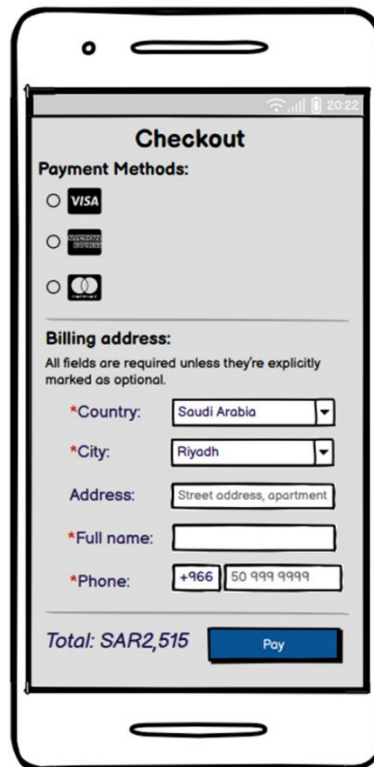
Figure 20: Application Checkout page

Table Below show each button with functionality:

Button	functionality
Pay	Clicking on it will allow the user to complete the payment process.
Links	18. "Pay" The payment will be processed.

Table 9 "Checkout page"

5.1.9 About us Page

Whenever a user uses a website for the first time, he is going to be very interested in knowing about the site and its policies so that he can safely and confidently use it. Our "About" page gives a brief description of "My Trip" and its services, including sponsors. Furthermore, we have placed our accounts on social networking sites so that the users are able to engage in the entire process of using our website.

Figure 21: Application About us page

Table Below show each button with functionality:

Button	functionality
Subscribe	The user will receive our updates and services after entering his e-mail address and clicking the button.
Links	19. Home link will refresh the page. 20. About Us link will take user to About Us page. 21. Packages link will take user to Packages page. 22. Contact link will take user to Contact page. 23. Profile Link will take user to Profile page.

Table 10 "About us page"

5.2 Website Paper Mockup

5.2.1 MyTrip Website Homepage

It is the page where user will start their experience with, the "Book For" section provides the available packages which users can choose for. Also, it provides the users with the option of customizing their trip based on their personal preferences. "Activities Available In" section provide all the ongoing activities in cities that is available for booking on the website as it shown in the following figure.
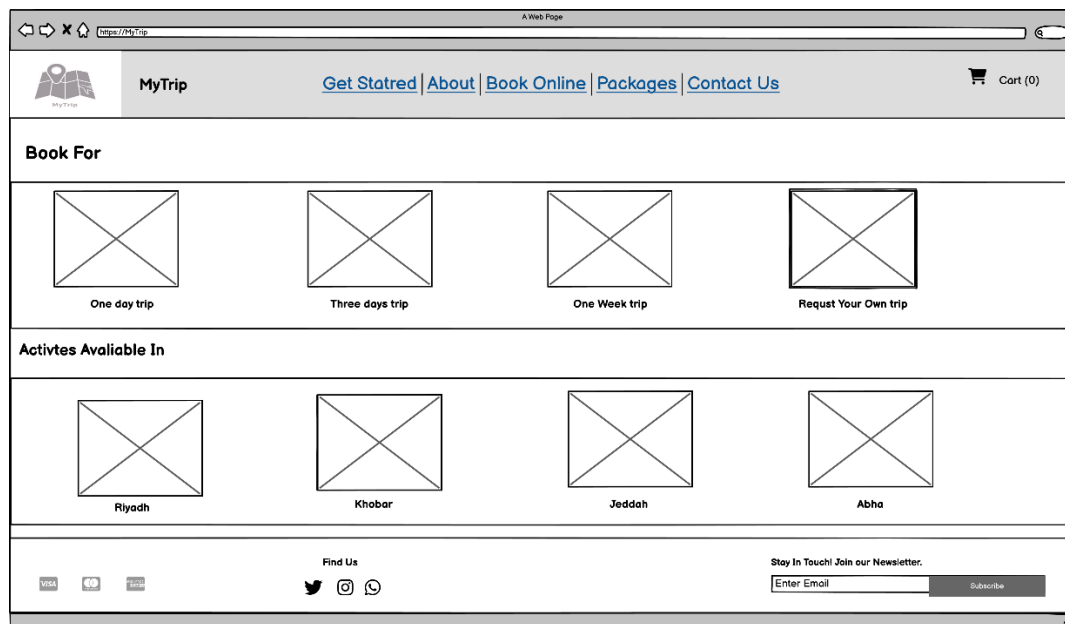
Figure 22: Website Homepage

Table Below show each button with functionality**:**

	functionality
One day trip	will take the users to a page of all available one-day trips.
Three days trip	will take the users to a page of all available three days trips.
One week trip	will take the users to a page of all available one-week trips.
Request your own trip	will take the users to a page where they can customize their trip based on their preferences.
Riyadh	will take the users to a page of all available activities in Riyadh.
Khobar	will take the users to a page of all available activities in Khobar.
Jeddah	will take the users to a page of all available activities in Jeddah.
Abha	will take the users to a page of all available activities in Abha,
Links	1. Get Started link will take users to Sign up page and if the user already has an account, the sign-up page link will be used. 2. About Us link will take user to About Us page. 3. Book online link will take the user to a page where they can view all available cities and activities to choose for their trip. 4. Packages link will take user to Packages page. 5. Contact link will take user to Contact page.

Table 11: Profile page

5.2.2 MyTrip Website Activity page

Activity page appears when user chooses a city in home page.
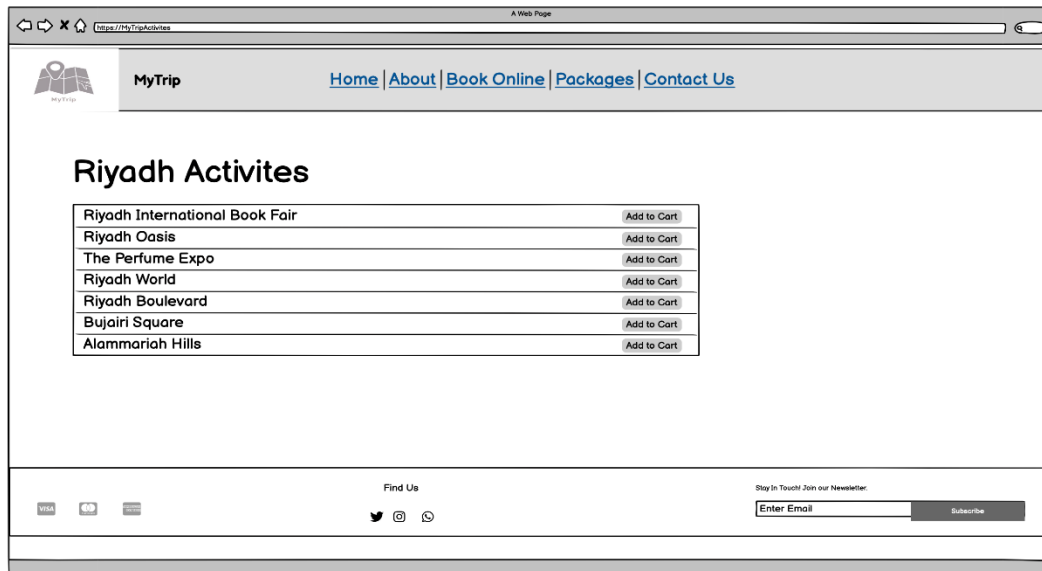
Figure 23: Website Activites page

Table Below show each button with functionality**:**

Button	functionality
Add to Cart	will take this activity to user's cart
Links	1. About Us link will take user to About Us page 2. Packages link will take user to Packages page 3. Contact link will take user to Contact page 4. Home link will take user to Home page 5. Book online link will take the user to a page where they can view all available cities and activities to choose for their trip.

Table 12: Activity page

5.2.3 MyTrip Website Sign Up page

This page enables users to sign up by filing all the required field, they also have the option for signing up using their Goggle account. If users already have an account, they will use the Sign in

link to fill their sign in information website as it shown in the following figure.

Figure 24: Website Sign up page

Table Below show each button with functionality**:**

Button	functionality
Sign up	will take user to user's Account
Links	6. About Us link will take user to About Us page 7. Packages link will take user to Packages page 8. Book online link will take the user to a page where they can view all available cities and activities to choose for their trip. 9. Contact link will take user to Contact page

Table 13: Sign up page

5.2.4 MyTrip Website Sign In page

This page enable user to login to their account by phone number or email and password, if the user uses a Goggle account, a link to Goggle authentication will take the user to complete the sign in information. If happened and user forget their account password, a link for change the password is available as it is showing in the following figure.
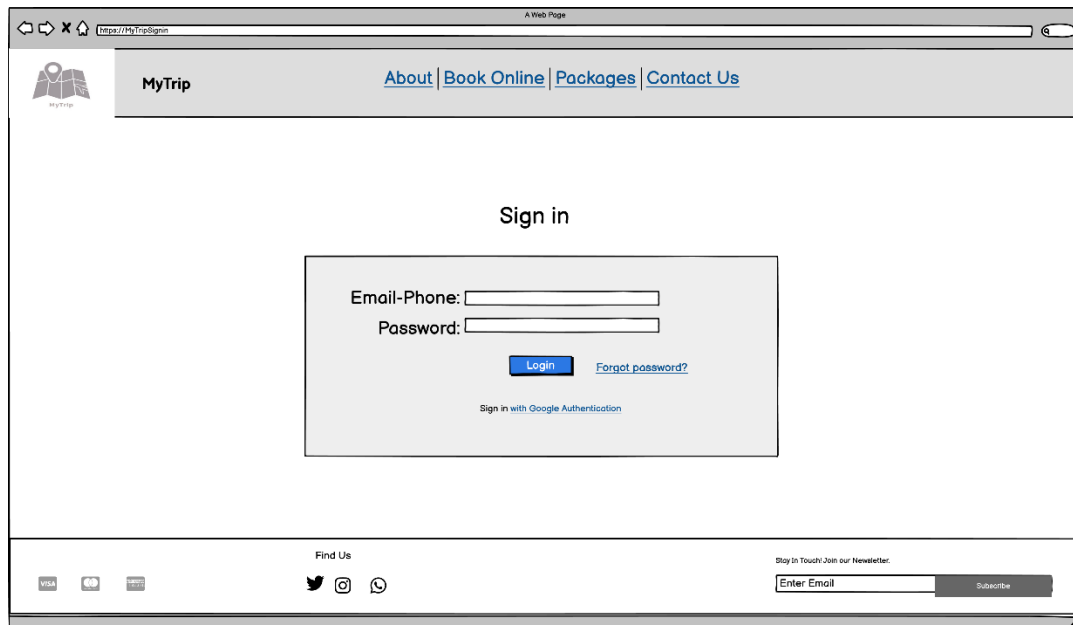
Figure 25: Website Sign In page

Table Below show each button with functionality**:**

Button	functionality
Sign up	will take user to user's Account
Links	1. About Us link will take user to About Us page 2. Packages link will take user to Packages page 3. Book online link will take the user to a page where they can view all available cities and activities to choose for their trip. 4. Contact link will take user to Contact page 5. Forget Password link will take user to change the password 6. Goggle authentication link will allow users to log in using their Goggle account

Table 14: Sign In page

5.2.5 MyTrip Website Account page

This page appears when user click on Sign up or Log in as it shown in the figure below.
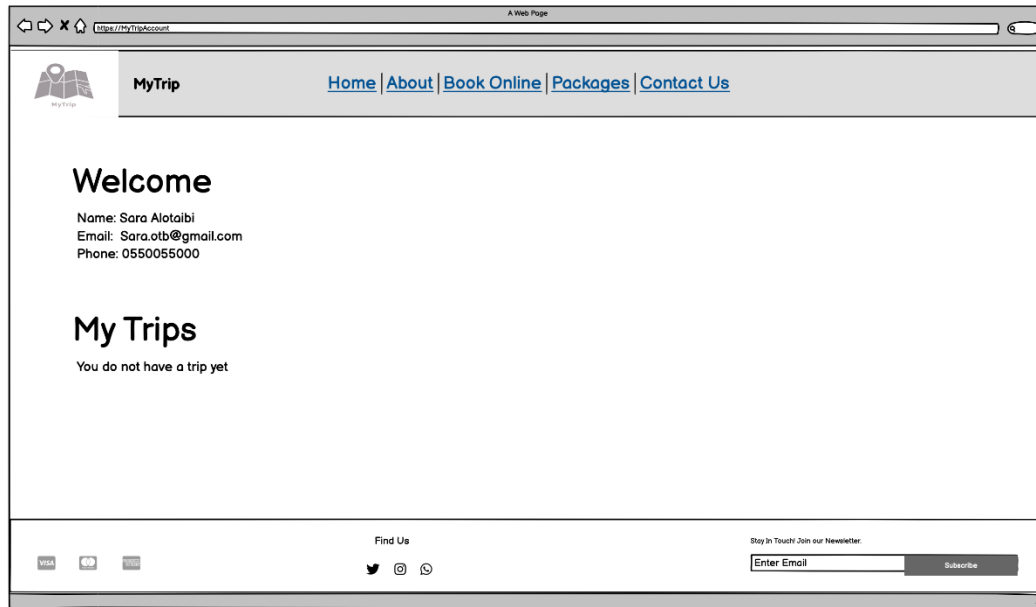
Figure 26: Website Account page

Table Below show each button with functionality**:**

Button	functionality
Links	1. About Us link will take user to About Us page. 2. Packages link will take user to Packages page. 3. Book online link will take the user to a page where they can view all available cities and activities to choose for their trip. 4. Contact link will take user to Contact page. 5. Home link will take the user to the homepage.

Table 15: Email sent page

5.2.6 MyTrip Website Forget password page

User will enter their email to get an email to get their new password as showing in the figure below.
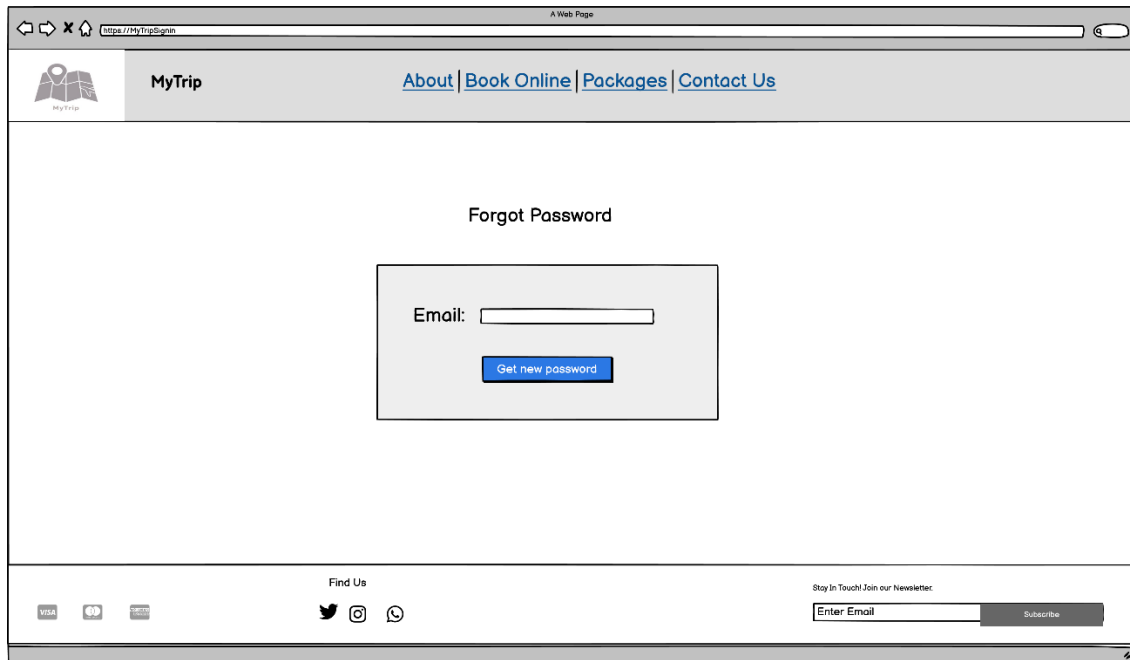
Figure 27: Forget password page

Table Below show each button with functionality**:**

Button	functionality
Get new password	will take user to user's homepage
Links	1. About Us link will take user to About Us page 2. Packages link will take user to Packages page 3. Book online link will take the user to a page where they can view all available cities and activities to choose for their trip. 4. Contact link will take user to Contact page

Table 16: Forget password page

5.2.7 MyTrip Website password sent page

This page indicate that the varication email was successfully sent, and user must use the password in the email sent to log in to the website as it is showing in the figure.
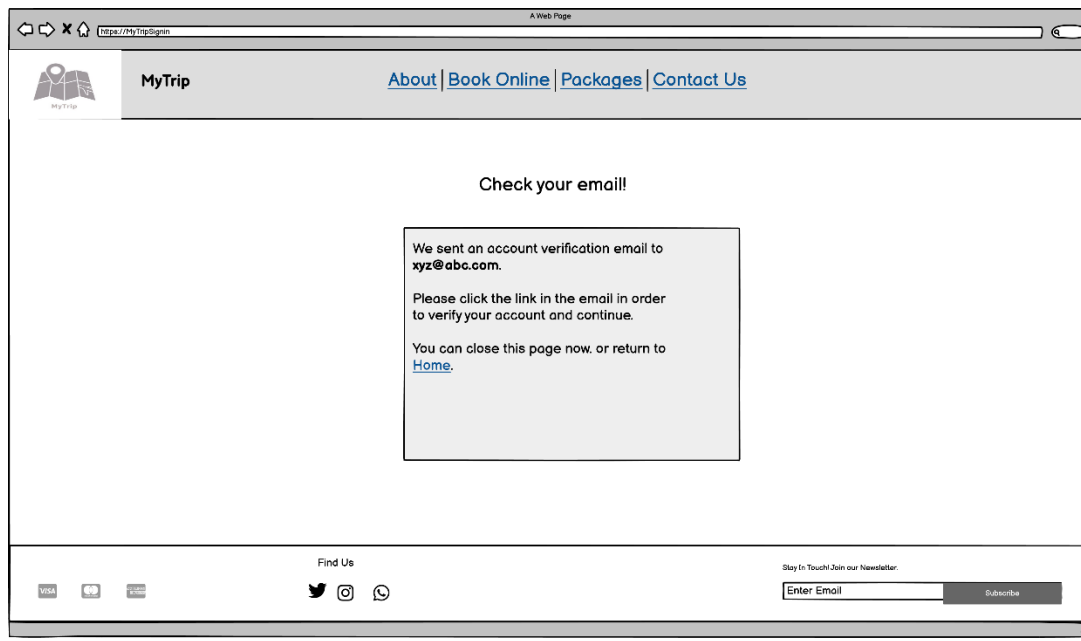
Figure 28: Email sent page

Table Below show each button with functionality:

Button	functionality
Links	6. About Us link will take user to About Us page. 7. Packages link will take user to Packages page. 8. Book online link will take the user to a page where they can view all available cities and activities to choose for their trip. 9. Contact link will take user to Contact page. 10. Home link will take the user to the homepage.

Table 17: Email sent page

5.2.8 MyTrip Website Packages page

Packages page contain all packages that the website can provide to the user, each package has its own features.
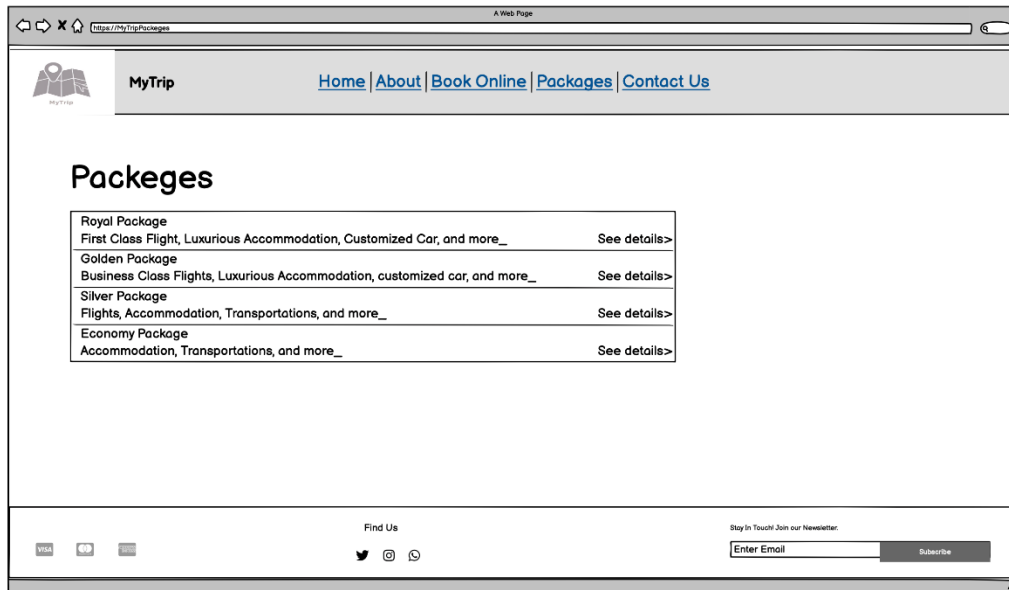
Figure 29: Packages page

Table Below show each button with functionality**:**

Button	functionality
See Details	will take user to the Details page.
Links	1. About Us link will take user to About Us page 2. Packages link will take user to Packages page 3. Contact link will take user to Contact page 4. Home link will take user to homepage 5. Book online link will take the user to a page where they can view all available cities and activities to choose for their trip.

Table 18: Packages page

5.2.9 MyTrip Website Details page

Details page appears when user chooses a package, it shows Components of this package and the price as it shown in the figure.
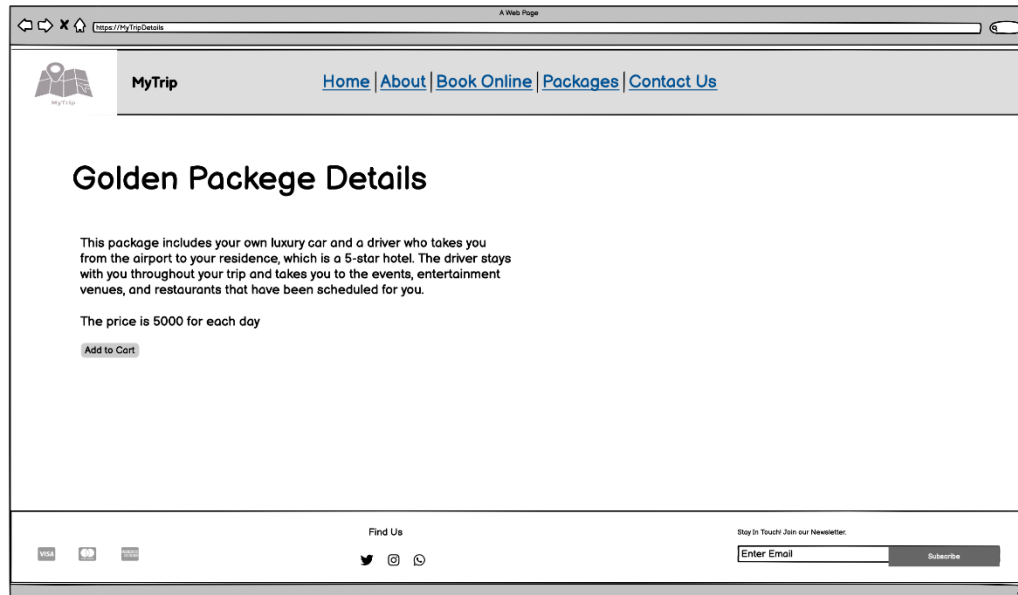
Figure 30: Details page

Table Below show each button with functionality:

Button	functionality
Add to Cart	will take the package to cart page.
Links	1. About link will take user to About Us page. 2. Packages link will take user to Packages page. 3. Book online link will take the user to a page where they can view all available cities and activities to choose for their trip. 4. Contact link will take user to Contact page. 5. Home link will take user to Homepage.

Table 19: Details page

4.2.10 MyTrip Website Requested trip page

This page will allow users to write their requirement for their specified trip by entering their personal information in all the required fields for contacting them and then it can be added to the cart as it shown in the following figure.

Figure 31: Requested trip page

Table Below show each button with functionality**:**

Button	functionality
Add to cart	To complete the payment process, the user is taken to the checkout page.
Links	1. About link will take user to About Us page. 2. Packages link will take user to Packages page. 3. Book online link will take the user to a page where they can view all available cities and activities to choose for their trip. 4. Contact link will take user to Contact page. 5. Home link will take user to Homepage.

Table 20: Requested trip page

5.2.11 MyTrip Website payment page

The shopping cart shows all the user's choices and prices after the required package has been placed in the cart and all information about the item will appear on this page.

Figure 32: Shopping Cart page

Table Below show each button with functionality:

Button	functionality
Apply	Will make discount for user if the code was correct.
checkout	Will move to the checkout page.
Links	5. About Us link will take user to About Us page 6. Packages link will take user to Packages page 7. Book online link will take the user to a page where they can view all available cities and activities to choose for their trip. 8. Contact link will take user to Contact page
Action	When the user wants to delete the package.

Table 21:Shopping Cart page

5.2.12 MyTrip Website checkout page

The Checkout page allows the user to complete the payment procedures and addresses to confirm the reservation.

Figure 33: Checkout page

Table Below show each button with functionality:

Button	functionality
PAY	Will move to the done page After payment is completed.
Links	9. About Us link will take user to About Us page 10. Packages link will take user to Packages page 11. Book online link will take the user to a page where they can view all available cities and activities to choose for their trip. 12. Contact link will take user to Contact page

Table 22: Checkout page

5.2.13 MyTrip Website Done page

After completing the payment and verification processes, this page will appear to confirm the reservation
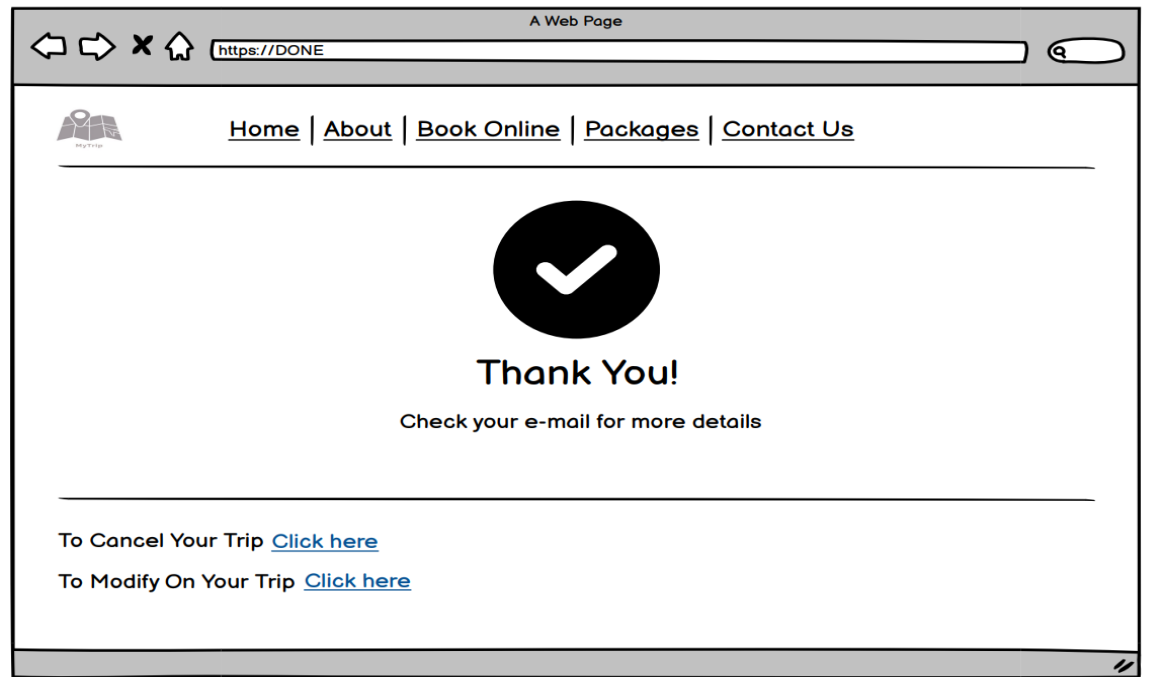
Figure 34: Done page
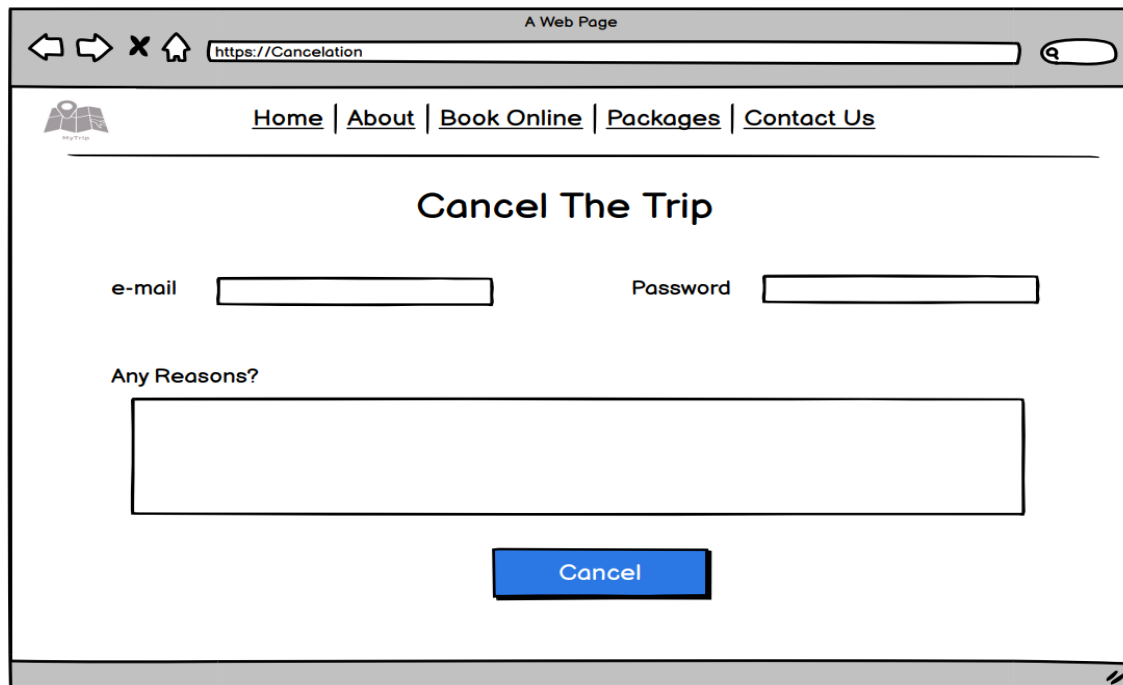
Table Below show each button with functionality:

Button	functionality
1-Click here	Will move to the cancellation page if user want to cancel the reservation.
Links	13. About Us link will take user to About Us page 14. Packages link will take user to Packages page 15. Book online link will take the user to a page where they can view all available cities and activities to choose for their trip. 16. Contact link will take user to Contact page

Table 23: Done page

5.2.14 MyTrip Website Cancellation page

This page allows the user to cancel their reservation flexibly and get a refund.

Figure 35: Cancellation page

Table Below show each button with functionality**:**

Button	functionality
Cancel	Will cancel the reservation.
Links	17. About Us link will take user to About Us page 18. Packages link will take user to Packages page 19. Book online link will take the user to a page where they can view all available cities and activities to choose for their trip. 20. Contact link will take user to Contact page

Table 24: Cancellation page

5.2.15 MyTrip Website Rating page

This page makes the user rate his trip, and it will show him the ratings of other users.
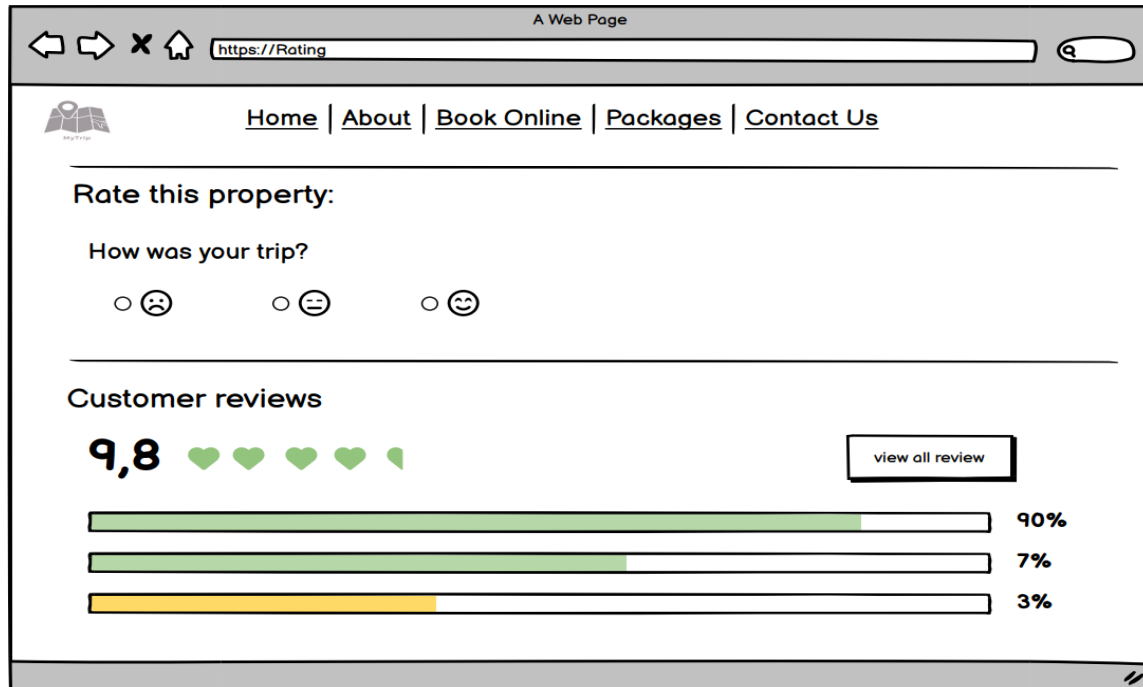
Figure 36: Rating page

Table Below show each button with functionality**:**

Button	functionality
View all review	Will show other user review
Links	21. About Us link will take user to About Us page 22. Packages link will take user to Packages page 23. Book online link will take the user to a page where they can view all available cities and activities to choose for their trip. 24. Contact link will take user to Contact page

Table 25: Rating page

6. Axure Software Prototype

This section will present the software prototype (using Axure) a mobile application of MyTrip system

6.1 Start Page

The following figure shows the starting page of MyTrip application where user will choose to create an account by clicking the sign-up button and if the user already has an account, then the user will click on the sign in button.
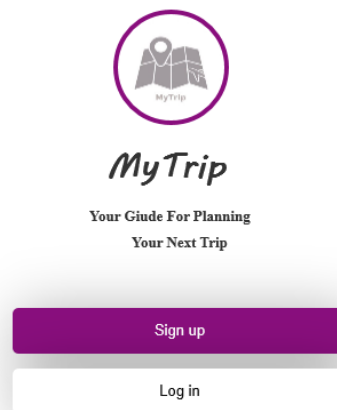
Figure 37: Mytrip start page

Table Below show each button with functionality:

Button	functionality

Sign Up	It will take user to Sign up page
Sign In	It will take user to Sign in page

Table 26: Mytrip start page

6.2 Sign Up page

In this page users will fill all the fields to be able to create an account, if a user to forgot to fill out one of the fields, a warning massage will appear allowing the user to acknowledge that all the field must be filled. Other options which the users can create an account with to sign up using their Goggle and Apple accounts as it shown in the following figures

Figure 38: Mytrip Sign Up page

Figure 39: empty fields massage

Table Below show each button with functionality:

Button	functionality
Sign up	It will take the user to the homepage.
Sign In with Goggle	It will take the user to a Goggle page to complete the sign-up information.
Sign In with Apple	It will take the user to an Apple page to complete the sign-up information.

Table 27: Mytrip Sign Up page

6.3 Sign in page

This page enable user to Sign in if he has account by entering phone number or email and password or he can sign in by google account or with apple

Figure: Sign in page

Table Below show each button with functionality:

Button	functionality
Sign in	will take user to Packges page
Sign in with Google	will open google to enable user enter his google account
Sign in with Google	will open Apple to enable user enter his Apple account

Table 28: Sign in page

6.4 Profile page

This page show information about user such as his email and phone etc.. , Also enable user to change language and font size and app appearance

Figure: Profile page

Table Below show each button with functionality :

Button	functionality
Save change	will save the updated information or setting
Links	1. Home link will refresh the page 2. About Us link will take user to About Us page 3. Product link will take user to Packges page 4. Contact link will take user to Contact page
Cancel	will cancel the updated information or setting and return the previous one

Table 29: Profile page

6.5 Package page

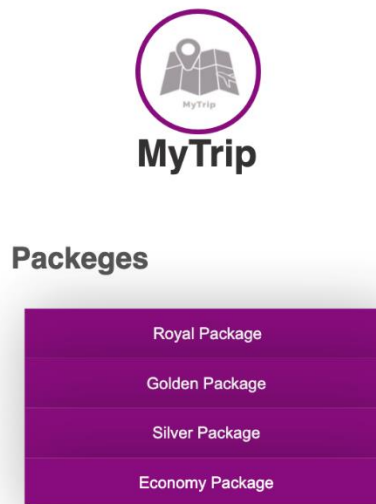package contain all packages that the website can provide to the user, each package has its own features.

Figure: Package page

Table Below show each button with functionality:

Button	functionality
Royal Package	It will take the user to royal package details.
Golden Package	It will take the user to golden package details.

Silver Package	It will take the user to silver package details.
Economy Package	It will take the user to economy package details.

Table 30: Package page

6.6 Details page

Details page appears when user chooses a package, it shows Components of this package and the price

Figure: Details page

Table Below show each button with functionality:

Button	functionality
Add to Cart	It will take the user to Cart page.

Table 31: Details page

6.7 Shopping Cart page

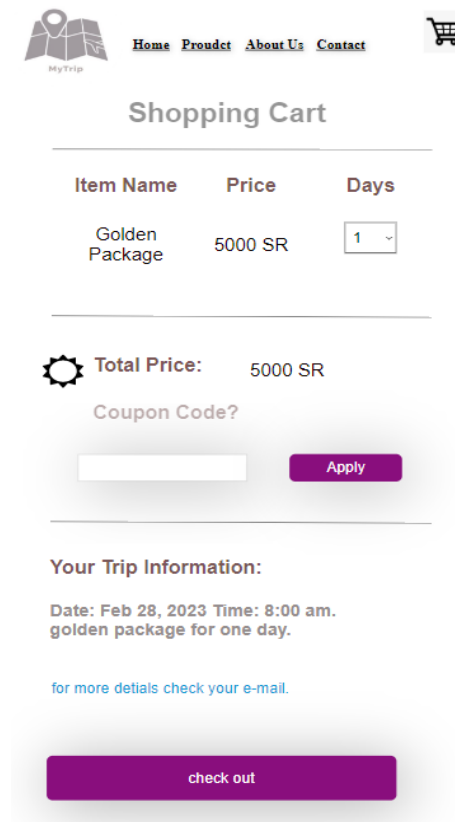After the user click to cart the shopping cart page will appear to show the details about the item.

Figure: Shopping Cart page

Table Below show each button with functionality:

Button	functionality
Apply	Will make discount for user if the code was correct.
Checkout	Will move to the checkout page.
Links	5. Home link will refresh the page 6. About Us link will take user to About Us page 7. Product link will take user to Packges page 8. Contact link will take user to Contact page

Table 32: Shopping Cart page

6.7 Checkout page

The Checkout page allows the user to complete the payment procedures and addresses to confirm the reservation.

Figure: Checkout page

Table Below show each button with functionality:

Button	functionality
PAY	Will move to the done page After payment is completed.
Links	9. Home link will refresh the page 10. About Us link will take user to About Us page 11. Product link will take user to Packges page 12. Contact link will take user to Contact page

Table 33: checkout page

6.7 Done page

After completing the payment and verification processes, this page will appear to confirm the reservation

Figure: Done page

Table Below show each button with functionality:

Button	functionality
1-Click here	Will move to the cancellation page if user want to cancel the reservation.
Links	13. Home link will refresh the page 14. About Us link will take user to About Us page 15. Product link will take user to Packges page 16. Contact link will take user to Contact page

Table 34: Done page

6.7 Cancellation page

This page allows the user to cancel their reservation flexibly and get a refund.

Figure: Cancellation page

Table Below show each button with functionality:

Button	functionality
Cancel	Will cancel the reservation.
Links	17. Home link will refresh the page 18. About Us link will take user to About Us page 19. Product link will take user to Packges page 20. Contact link will take user to Contact page

Table 35: Cancellation page

Conclusion

Mytrip system is a system that enable users to plan their trip in the cities of the Kingdom of Saudi Arabia which to support domestic tourism. This project aimed on discussing similar systems to Mytrip (Wafy, Meshini, Saudia holidays) and implement usability evaluation on each of these systems. Both task and user analysis were performed to illustrate all the functionalities that will be performed via the system. The task analysis section shows the procedure which will be taken when implementing tasks via the system. As for the user analysis section, number of features were included to demonstrate how different user requirements were implemented to serve various users' needs. A paper prototype using Balsamiq was used to as a starting point for implementing the initial design of the system including all the expected functionalities. After that, a software prototype was implemented using Axure with all the functionalities that the application is expected to perform.

Reference

[1]: J. Ruiz, E. Serral, and M. Snoeck, "Unifying functional user interface design principles," *International Journal of Human–Computer Interaction*, vol. 37, no. 1, pp. 47–67, 2020.

[2]: B. Shneiderman, C. Plaisant, M. Cohen, S. Jacobs, and N. Elmqvist, *Designing the user interface: Strategies for effective human-computer interaction*. Boston: Pearson, 2018.

[3]: E. Wong, "Shneiderman's eight golden rules will help you design better interfaces," *The Interaction Design Foundation*, 09-Feb-2023. [Online]. Available: https://www.interaction-design.org/literature/article/shneiderman-s-eight-golden-rules-will-help-you-design-better-interfaces. [Accessed: 09-Feb-2023].