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Online Travel & Tours Agency

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Abstract

Online Tours and Travels Project is web-based application specially designed for travel agents to book tickets through online and provide travels information.

Even with the growth of online travel booking sites, the travel agency industry is expected to grow over the next several years. Online booking has forced traditional travel agencies to market themselves in new ways, often by catering to niche markets.

Today, travelers who want a well-planned vacation but don't want to do the planning can find a travel agent who caters to exactly what they're looking for. Agencies often handle transfers between multiple destinations, event planning services, group travel arrangements and more. Working with a travel agent can help take the stress out of travel.

The purpose of this website is that it can give any kind of travel packages to the general public. Any customer can register onto the application.

The benefits and advantage of online travel agencies is having low cost and convenience. Online travel agencies are also available at any time, as long as you go online, you have all the time for bookings that you need to complete. With all these online agencies, you have all the option to choose the best deal and the right budget for you. It also gives the comfort in the country of destination; you are provided with the transfer to your hotel and agencies are the one taking care of any problems you might encounter.

Article Source: <http://EzineArticles.com/4138156>

<https://www.consumeraffairs.com/travel/agencies.html>

Acknowledgement

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Table of Contents

1.0 Description of current system	8
1.1 Existing Problems.....	8
1.2 Proposed Solution.....	10
1.3 Goals and objectives	11
1.4 Other goals and objectives	11
2.0 Feasibility Study	13
2.1 Technical Feasibility	13
2.1.2 The 3-Tier Architecture	13
2.1.3 Comparing different possibilities.....	14
2.1.4 Conclusion.....	15
2.1.5 Hardware requirements.....	17
2.1.6 Software requirements.....	17
2.2 Operational Feasibility	18
2.3 Economic Feasibility.....	21
2.3.1 Cost-Benefit Analysis	21
2.3.2 Payback Period.....	22
2.3.2.1 Tangible Benefits.....	22
2.3.2.2 Intangible Benefits	22
2.3.3 Sensitivity analysis	23
2.3.4 Conclusion:.....	24
3.0 Chosen Methodology	26
3.1 Agile methodology	26
3.2 Agile software development principles	26
3.3 Advantages of Agile model:	27
3.4 Disadvantages of Agile model:.....	28
4.0 Project Planning	30
4.1 Gantt Chart.....	30
4.2 Work Breakdown Structure (WBS)	31

4.3 Project Charter.....	32
4.4 Project Scope	33
4.4.1 Importance of the project.....	34
5.0 Requirement Analysis	36
5.1 Functional Requirement	36
5.2 Non-Functional Requirement	36
6.0 Design.....	39
6.1 Database design.....	39
6.1.1 ERD	39
6.1.2 Class Diagram.....	40
6.1.3 Use case diagram	41
6.1.3.1 Use Case Specification	42
6.1.4 Data Dictionary	44
6.2 User Interface Design.....	49
Customer Section.....	49
Admin Section	53
7.0 Implementation	56
8.0 Testing.....	61
8.1 Whitebox testing.....	61
8.2 Black Box testing	69
10.0 Conclusion.....	72
10.1 Overview of the system	72
10.2 Strength of the website	73
10.3 Weakness.....	73
10.4 Future improvements	73
11.0 References	75
12.0 Appendices.....	77
12.1 User manual	77
12.2 Annex	93

Figure 1: 3-Tier Architecture	13
Figure 2: Payback Period.....	23
Figure 3: Sensitivity Analysis Scenario 1	23
Figure 4: Sensitivity Analysis Scenario 2	24
Figure 5: Gantt chart part (1).....	30
Figure 6: Gantt chart part(2).....	30
Figure 7: Work Break down Structure	31
Figure 8: ERD - Physical	39
Figure 9: Class Diagram.....	40
Figure 10: Use Case Diagram	41
Figure 11: Homepage interface design	49
Figure 12: Register interface design	50
Figure 13: Login interface design.....	50
Figure 14: Book Accomodation interface design	51
Figure 15: Flight interface design.....	51
Figure 16: Car rental interface design.....	52
Figure 17: Manage Flight, Accommodations, Car interface design.....	53
Figure 18: CRUD - Create New interface design	54

Chapter 1: Description of current System

1.0 Description of current system

The existing system is a completely manual one. Information is sent to correspondents via fax and there is no guarantee that it has successfully reached its destination. Staffs communicate with each other by telephone or walking to the people they want to talk to. Advertising is done by newspapers or papers glued to their window panes so as to allow people to know about different promotions or packages or new arrivals.

Customers have to walk in the agency to know more about an item which sometime causes some customers to walk away because of too much customer inside and they have to wait too much time.

Data about customers and other records such as bookings and other are stored in files which are sometimes vulnerable to data theft, data destroyed by natural calamities.

1.1 Existing Problems

- Slow system

Since the existing system is a manual system, it is very difficult to maintain historical data. It is difficult to maintain important information in books. More manual hours are needed to generate required outputs. It is tedious to manage historical data which needs so much space to keep all previous ledgers book and so on.

- Time consuming

Transactions made within the company are mostly on paper and there are procedures to go by when reserving or buying a certain package or specific items. Hence these factors make the system slower which may discourage clients from coming back to the agency. Currently customer in order to reserve or order a package can call or walk in the agency showroom then the staff will go and check if whatever asked by the client is available. Thus, there is a huge amount of paperwork involved during any process.

- Lack of security of data

Since documents are bulky and may fall in the hands of untrusted people, it can be harmful to the company if these documents are leaked in today's competitive world. Lack of security of data grants access to anyone and may lead to data misuse. Therefore, records are prone to getting lost or misplaced.

- Communication process

This company makes use of a fax machine or transmission, although it is secured against remote attacks but we do not know if the document has reached its destination successfully. Phone calls are made in order for a customer to get certain information about the available packages and other services.

- Scheduling

When a customer wants an appointment with the company in order to visit the showroom, it is recorded in a book. The staff go through this book in order to schedule the appointment and confirm customers their appointment time and date. But most paper works are wrongly organized.

- Human errors

Human errors are very common in manual systems. It is difficult to control the amount of errors a staff does on paper. Very often those errors may lead to conflicts with either customers or with the superiors. Staffs which lack of attention towards their work may miss details of customers or important details.

To avoid all these limitations and make the system more reliable and accurate, the system needs to be computerized.

1.2 Proposed Solution

The proposed solution for the travel agency is to develop a website which will allow all users to

- To register and login as an administrator on the website in order to update the website and as well as for customers also which may login to pay for their package tours and also get a quotation.
- The customers should be able to search for specific items on the website according to their dates and budget and family size or group size
- After having found their desired holidays or business trips, customers should be able to view their cart and make modifications if any
- The website should also offer the facilities of creating packages and display it on the website so that who do not have an idea of what they are looking for can opt for it
- At last for payment customers should be able to choose between online payment or cash payment at the agency

1.3 Goals and objectives

Our aim is to develop an E-commerce website which will allow potential customers to be able to visit the website anytime and anywhere.

First of all, customers accessing the website should be able to view the flash sales available and also all the services available on our website for example packages, hotel rooms, activities and so on.

The service of the website should be fast processed. The website should be user friendly, easy to use and easily accessible.

1.4 Other goals and objectives

- Quality assurance and customer satisfaction

The services offered on the website should be of highest quality which will also give our customers the desired level of satisfaction

- Market capture

Customers should be aware of all our various services and packages available in our showroom.

This should be achieved by making advertisements on our website.

- Responsive website

With the use of a fluid layout, users will be able to view the website either from a computer or from a mobile and the website should adapt fully according to the device they are using to access the website

- Data security and integrity

As it is an E-commerce website, security is a must.

If a hacker breaks into the database of the website, he may mess up the data on the website and change deals on the website which may cause conflicts between customers.

- Reduce human efforts

Staffs take too much time to process their works given to them. So, the websites should be able to reach all clients anywhere and anytime

Chapter 2: Feasibility Study

2.0 Feasibility Study

2.1 Technical Feasibility

Technical Feasibility is defining as the feasibility that is concerned with specifying equipment and software that will successfully satisfy the user requirement.

2.1.2 The 3-Tier Architecture

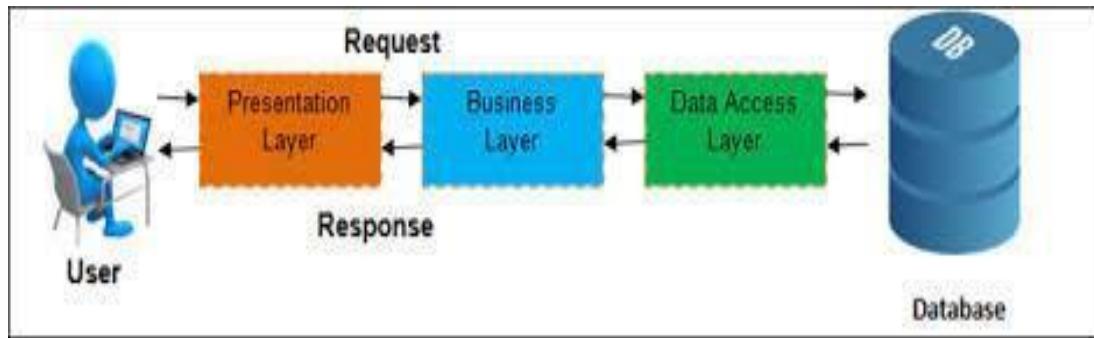


Figure 1: 3-Tier Architecture

Presentation tier

This is the topmost level of the application. The presentation tier displays information related to such services as browsing merchandise, purchasing and shopping cart contents. It communicates with other tiers by which it puts out the results to the browser/client tier and all other tiers in the network. In simple terms, it is a layer which user can access directly (such as a web page, or an operating system's GUI).

Application tier (business logic, logic tier, or middle tier)

The logical tier is pulled out from the presentation tier and, as its own layer, it controls an application's functionality by performing detailed processing.

Data tier

The data tier includes the data persistence mechanisms (database servers, file shares, etc.) and the data access layer that encapsulates the persistence mechanisms and exposes the data. The data access layer should provide an API to the application tier that exposes methods of managing the stored data without exposing or creating dependencies on the data storage mechanisms.

Avoiding dependencies on the storage mechanisms allows for updates or changes without the application tier clients being affected by or even aware of the change. As with the separation of any tier, there are costs for implementation and often costs to performance in exchange for improved scalability and maintainability.

2.1.3 Comparing different possibilities

Website Application

A web app is a collection of related web pages, including multimedia content, typically identified with a common domain name, and published on at least one web server. A website may be accessible via a public Internet Protocol (IP) network, such as the Internet, or a private local area network (LAN), by referencing a uniform resource locator (URL) that identifies the site.

Advantages

- Reaching a Wider Audience
- Information is accessible to anyone at anytime and anywhere
- Cheap advertising

Disadvantages

- It crashes up anytime
- Maintenance cost
- Risk of being hacked

Native application

A native mobile app is a smartphone application that is coded in a specific programming language, such as Objective C for iOS or Java for Android operating systems. Native mobile apps provide fast performance and a high degree of reliability.

Advantages

- Since native apps work with the device's built-in features, they are easier to work with and also perform faster on the device.
- Native apps get full support from the concerned app stores and marketplaces. Users can easily find and download apps of their choice from these stores.

- Because these apps have to get the approval of the app store they are intended for, the user can be assured of complete safety and security of the app.
- Native apps work out better for developers, who are provided the SDK and all other tools to create the app with much more ease.

2.1.4 Conclusion

Among all the possibilities above, a website has been chosen as the best option for the travel agency

The reasons are as follows:

1. Improve Your Advertising Effectiveness

Placing your website address on all of your promotional material will help you gain additional exposure and encourage the visitors to first check your site for the information they are seeking.

2. Save Money on Printing and Distribution Costs

A website can act as your online brochure or catalog that can be changed or updated at any time. If you employ a content management system (CMS) you can make changes quickly and at no charge.

3. Easy Access to New Customers

You can have your existing customers refer you to their friends and relatives using only your web address or URL.

4. Easy to Use and Update

If maintained properly your website will always be up-to-date and current. Easily make updates, edits and deletions from any computer on the Internet. No more having to pay a programmer every time you want to change a date or add a product.

5. Improve Productivity

A website increases your company's productivity because less time is spent explaining product or service details to customers because all this information is available 24 hours a day on your website.

6. Educate Your Customers

Your website can offer free advice about your products and services. This information can be delivered at any hour in a well thought out and consistent way.

7. Expand Your Market

The Internet allows businesses to break through the geographical barriers and become accessible from any of the world by a potential customer that has an Internet connection. Selling products online is cheaper and easier for you and your customers.

8. Extend Your Local Reach

Extend the local reach of your brick-and-mortar store to consumers around the world. You are open for business 24/7 – 365 days/year with all the information the visitors need to make an informed decision.

2.1.5 Hardware requirements

RAM	4GB
Storage capacity	500GB
Processor	Core i3

2.1.6 Software requirements

- XAMPP
- PHP MYADMIN

2.2 Operational Feasibility

- The website will allocate enough resources to a customer so that he navigates freely and easily through it.
- Staffs updating the website or working the backend will need half a day training so that they understand the system completely.
- **Process**

Staff and clients using the system will be at ease when using the website as they will be given the opportunity to complete their works within few clicks which leads to less time wastage on choosing their packages. They are also very comfortable with the idea that they do not have to go to a showroom to plan their holiday. They can do it at home taking the amount of time they want to choose the best possible.

- **Performance**

As the website will do their desired works within few clicks, the processing speed will be very much better than doing it manually.

- **Information**

Data integrity should be the website's first objective as all information displayed on the website should be relevant and updated. Back end user should verify each information displayed everyday as simple mistakes can be big losses for the company.

- **Economy**

The proposed website should be increasing the company's profits as all customers nowadays look up to such facilities to plan their holidays or trips and as long as a user has internet connection, he will be able to book or plan everything anywhere and anytime regardless to the opening hours of the showroom.

- **Control**

Data security will be another key item of the website as users will register and make payments on the website. So, data should be kept private and confidential or else it will lose its number of users, visits and reliability which will affect the company's reputation and profit.

- **Efficiency**

Back end users will have to be trained so that they are able to manage the website efficiently and process the bookings of clients.

Staffs will make use of the forms filled by users to process their bookings. All the forms will be arranged in such a way that the staff does not miss any detail of customers while processing bookings.

Only 3 forms will be used for processing all data.

Forms for customers are registration, login and payment. By using only these 3 forms customers should be able to complete all their transactions.

PayPal online payment platform will be used as it is an established, secured and user-friendly payment platform.

- **Services**

The website will offer the following facilities to its customers:

- Register and login on the website
- Navigate easily and search for desired products
- Add items to cart
- Review cart (add or delete items)
- Make online payment
- Request receipt to make payment at the showroom

The vision behind introducing such a system is to offer more services in the future such as

- Hotel room booking
- Activities booking
- Special vehicle rental such as boats, limousines
- Personal assistance during bookings

2.3 Economic Feasibility

2.3.1 Cost-Benefit Analysis

Is the project economically possible?

The budget of the company is around Rs 150,000. The cost of the project is in the range of the client's budget as his budget was around Rs 250,000.

Is the proposed system being effective enough?

The proposed system is effective since with the increase number of online customers each year, the margin of profit keeps on increasing. (During a survey conducted in 2017, 40 percent of internet users in the United States stated that they purchased items online at several times per month, and 20 percent said they bought items or services online on a weekly basis.) Many companies are investing lots of money to develop their own web stores to sell their product.

In addition to that, the Web Application will be running 24/7, hence there is almost no barriers between online customers and the web application.

What are the savings that will be done using this proposed solution?

- With a Web Application, the business owner does not have to look for several places to open his showrooms and employ more staff as online applications saves a lot of money. If the customers are satisfied, they may do the website marketing by recommend it to another person (e.g. relatives, friends or colleagues).
- The Web Application will be running 24/7, hence this could result in additional revenue as well as energy savings

Do the proposed system's benefits outweigh the investment cost?

The proposed system will be developed using the technologies that are open-source as described in the technical feasibility. In this proposed system, since most of the technologies used are free, this impact positively on the capital cost of the project, hence

the benefits outweigh the cost. For the users to access the application, the only cost involved will be in getting access to the Internet.

2.3.2 Payback Period

Capital Cost – Rs 149681

Recurrent Cost – Rs 35000

What benefits will result from the system?

2.3.2.1 Tangible Benefits

- Improved speed of processing
- Improved accuracy of processing
- Improved efficiency and productivity of staffs
- Increased revenues from sales

2.3.2.2 Intangible Benefits

- Improved customer satisfaction
- Improved customer loyalty
- Improved sales forecasting
- Improved purchasing information
- Improved production scheduling

Years	0	1	2	3
Capital Cost	149681			
Recurrent Cost		35000	35000	35000
Benefit Cost		75000	125000	175000
Net Cash Flow	-149681	40000	90000	140000
Cummulative Cash Flow	-149681	-109681	-19681	120319
Discounted Cash Flow	-149681	36363.64	74380.17	105184.1

Figure 2: Payback Period

The payback period is estimated to be in Year 1 that is it has a low financial risk.

- The Discounted rate used is 10%.
- NPV was found to be 66246.87 when the summation of the discounted cash flow was calculated. Since $NPV > 0$, it is profitable.

2.3.3 Sensitivity analysis

Scenario 1

Capital Cost is increased by 10%. New Capital Cost is MUR 164649.1

Years	0	1	2	3
Capital Cost	164649.1			
Recurrent Cost		35000	35000	35000
Benefit Cost		75000	125000	175000
Net Cash Flow	-164649	40000	90000	140000
Cummulative Cash Flow	-164649	-124649	-34649.1	105350.9
Discounted Cash Flow	-164649	36363.64	74380.17	105184.1

Figure 3: Sensitivity Analysis Scenario 1

Scenario 2

Recurrent Cost is increased by 10%. New Recurrent cost is MUR 38500

Years	0	1	2	3
Capital Cost	149681			
Recurrent Cost		38500	38500	38500
Benefit Cost		75000	125000	175000
Net Cash Flow	-149681	36500	86500	136500
Cummulative Cash Flow	-149681	-113181	-26681	109819
Discounted Cash Flow	-149681	33181.82	71487.6	102554.5

Figure 4: Sensitivity Analysis Scenario 2

2.3.4 Conclusion:

Since both NPV percentage in the scenario shown above are less than 20% therefore, it can be concluded that Capital Cost and Recurrent Cost are not sensitive.

Chapter 3: Methodology

3.0 Chosen Methodology

3.1 Agile methodology

Agile software development refers to a group of software development methodologies based on iterative development, where requirements and solutions evolve through collaboration between self-organizing cross-functional teams. Agile methods or Agile processes generally promote a disciplined project management process that encourages frequent inspection and adaptation, a leadership philosophy that encourages teamwork, self-organization and accountability, a set of engineering best practices intended to allow for rapid delivery of high-quality software, and a business approach that aligns development with customer needs and company goals. Agile development refers to any development process that is aligned with the concepts of the Agile Manifesto. The Manifesto was developed by a group fourteen leading figures in the software industry and reflects their experience of what approaches do and do not work for software development.

3.2 Agile software development principles

1. Customer satisfaction by early and continuous delivery of valuable software
2. Welcome changing requirements, even in late development
3. Working software is delivered frequently (weeks rather than months)
4. Close, daily cooperation between business people and developers
5. Projects are built around motivated individuals, who should be trusted
6. Face-to-face conversation is the best form of communication (co-location)
7. Working software is the primary measure of progress
8. Sustainable development, able to maintain a constant pace

9. Continuous attention to technical excellence and good design

10. Simplicity—the art of maximizing the amount of work not done—is essential

11. Best architectures, requirements, and designs emerge from self-organizing teams

12. Regularly, the team reflects on how to become more effective, and adjusts accordingly

3.3 Advantages of Agile model:

- Customer satisfaction by rapid, continuous delivery of useful software.
- People and interactions are emphasized rather than process and tools. Customers, developers and testers constantly interact with each other.
- Working software is delivered frequently (weeks rather than months).
- Face-to-face conversation is the best form of communication.
- Close, daily cooperation between business people and developers.
- Continuous attention to technical excellence and good design.
- Regular adaptation to changing circumstances.
- Even late changes in requirements are welcomed

3.4 Disadvantages of Agile model:

- In case of some software deliverables, especially the large ones, it is difficult to assess the effort required at the beginning of the software development life cycle.
- There is lack of emphasis on necessary designing and documentation.
- The project can easily get taken off track if the customer representative is not clear what final outcome that they want.
- Only senior programmers are capable of taking the kind of decisions required during the development process. Hence it has no place for newbie programmers, unless combined with experienced resources.

Chapter 4: Planning

4.0 Project Planning

4.1 Gantt Chart

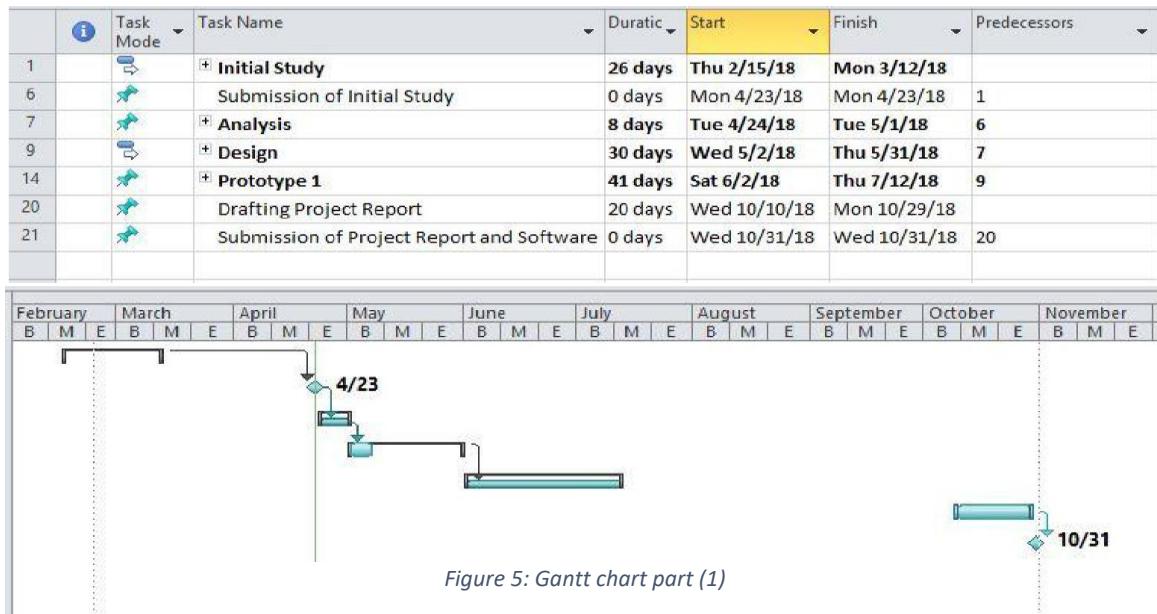


Figure 5: Gantt chart part (1)

	i	Task Mode	Task Name	Duration	Start	Finish	Predecessors
1		Initial Study	26 days	Thu 2/15/18	Mon 3/12/18		
2		Gantt Chart	2 days	Thu 2/15/18	Fri 2/16/18		
3		Requirements Analysis And Gathering	5 days	Mon 2/19/18	Fri 2/23/18	2	
4		Feasibility Study	5 days	Mon 2/26/18	Fri 3/2/18	3	
5		Drafting the Initial Study	8 days	Mon 3/5/18	Mon 3/12/18	4	
6		Submission of Initial Study	0 days	Mon 4/23/18	Mon 4/23/18	1	
7		Analysis	8 days	Tue 4/24/18	Tue 5/1/18	6	
8		Project Scope	8 days	Tue 4/24/18	Tue 5/1/18		
9		Design	30 days	Wed 5/2/18	Thu 5/31/18	7	
10		Use-Case	6 days	Wed 5/2/18	Mon 5/7/18		
11		Written-Use-Case	6 days	Thu 5/10/18	Tue 5/15/18		
12		Class Diagram	6 days	Fri 5/18/18	Wed 5/23/18		
13		Generating Sequence Diagram	6 days	Sat 5/26/18	Thu 5/31/18		
14		Prototype 1	41 days	Sat 6/2/18	Thu 7/12/18	9	
15		Design Review	1 day	Sat 6/2/18	Sat 6/2/18		
16		Implementation	65 days	Sun 6/3/18	Mon 8/6/18	15	
17		Coding	65 days	Sun 6/3/18	Mon 8/6/18		
18		Testing	5 days	Sun 7/8/18	Thu 7/12/18	16	
19		Generating Test-Cases	5 days	Sun 7/8/18	Thu 7/12/18		
19		Generating Test-Cases	5 days	Sun 7/8/18	Thu 7/12/18		
20		Drafting Project Report	20 days	Wed 10/10/18	Mon 10/29/18		
21		Submission of Project Report and Software	0 days	Wed 10/31/18	Wed 10/31/18	20	

Figure 6: Gantt chart part(2)

4.2 Work Breakdown Structure (WBS)

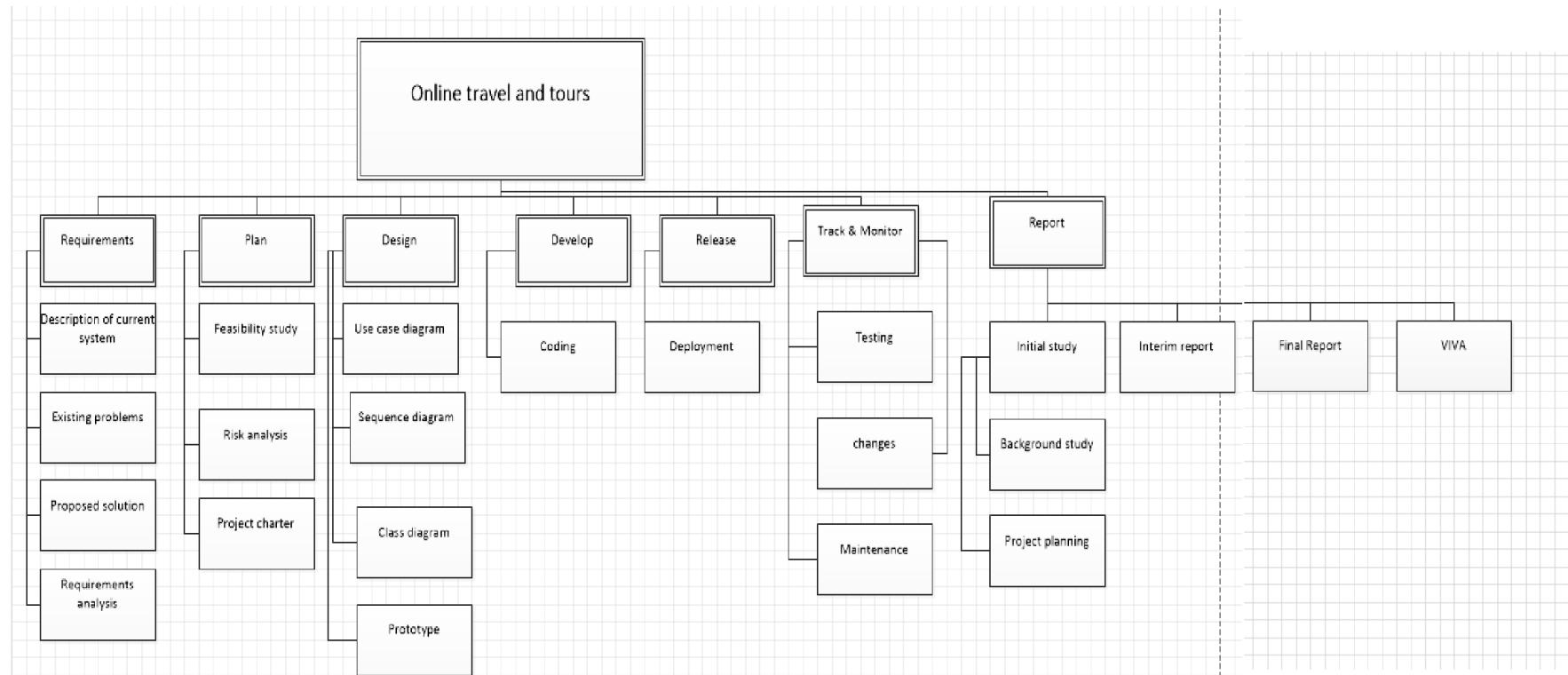


Figure 7: Work Break down Structure

4.3 Project Charter

The aim of this project is to reduce customers visit to the agency and provide them with a better-quality service where they can take all the required time to plan their trip. The aims identified are to help the travel and tours agency to do the following:

- Verify every available item
- Record requested items such as flights, trips or vehicles
- Record and update customer details
- Record and update trips
- Eliminate use of paper work
- Provide a secure and reliable system so that confidential information is not disclosed to unauthorized people
- Provide a system which can be upgraded later depending on if the requirements or way of proceedings change
- Ensure whether data can be accessed whenever required
- Fast and efficient data handling

4.4 Project Scope

The admin can:

- Add new flights, trip packages, vehicles to rent and payments
- Add and update trip, package or car rental details
- Keep track of customers payments
- Remind patient of payment in case showroom payment selected
- Update a package of a customer on his request
- Cancel a customer's order

The user can:

- Register and login
- Modify personal details
- Search for items in accordance to a date
- Make online payment
- Request receipt to make cash payment at the showroom

The admin can:

- Process orders and data
- Update the website contents
- Verify the payments status

The system will:

- Save all data in database

4.4.1 Importance of the project

- Unauthorized people will not be able to manipulate data or customer details
- Information will be retrieved easily hence faster processing and service
- Easier way to update information
- Services will be available 24/7
- Accessible to a very big percentage of the market

Chapter 5: Requirement Analysis

5.0 Requirement Analysis

5.1 Functional Requirement

- Customers must be able to register
- Customers must be able to login
- Customer must be able to modify profile in case of personal changes
- Customers must be able to navigate the page without login
- Customers must be able to search
- Customers must be able to add items to cart
- Customers must be able to modify cart
- Customers must be able to make online payment
- Customers must be able to make showroom payment on request
- Customers must be able to contact agency via the contact page
- Customers must be able to give feedback
- Admin must be able to update website contents
- Admin must have all customers details
- Admin must be able to receive customer orders
- Admin must be able to process orders
- Admin must be able to receive e-mails from customers (sent from a form in the contact page)
- Admin must be able to receive feedback from customers (sent from a form in the contact page)

5.2 Non-Functional Requirement

- Maintainability- Ease to correct errors if encountered
- Speed-Normalized tables channelled for a particular task increases the speed at which the data is processed in the database
- Security-Each table in the database will have authentication whereby online users with required permission will be able to access it

- Integrity-Data will be kept to a high-level security so as to prevent attacks which can harm the data integrity of the website. This means that data will be kept secure and up to date

- User friendliness-the website must be designed in such a way that all users of the website do not have any difficulty at all in managing or using the website

Chapter 6: Design

6.0 Design

6.1 Database design

6.1.1 ERD

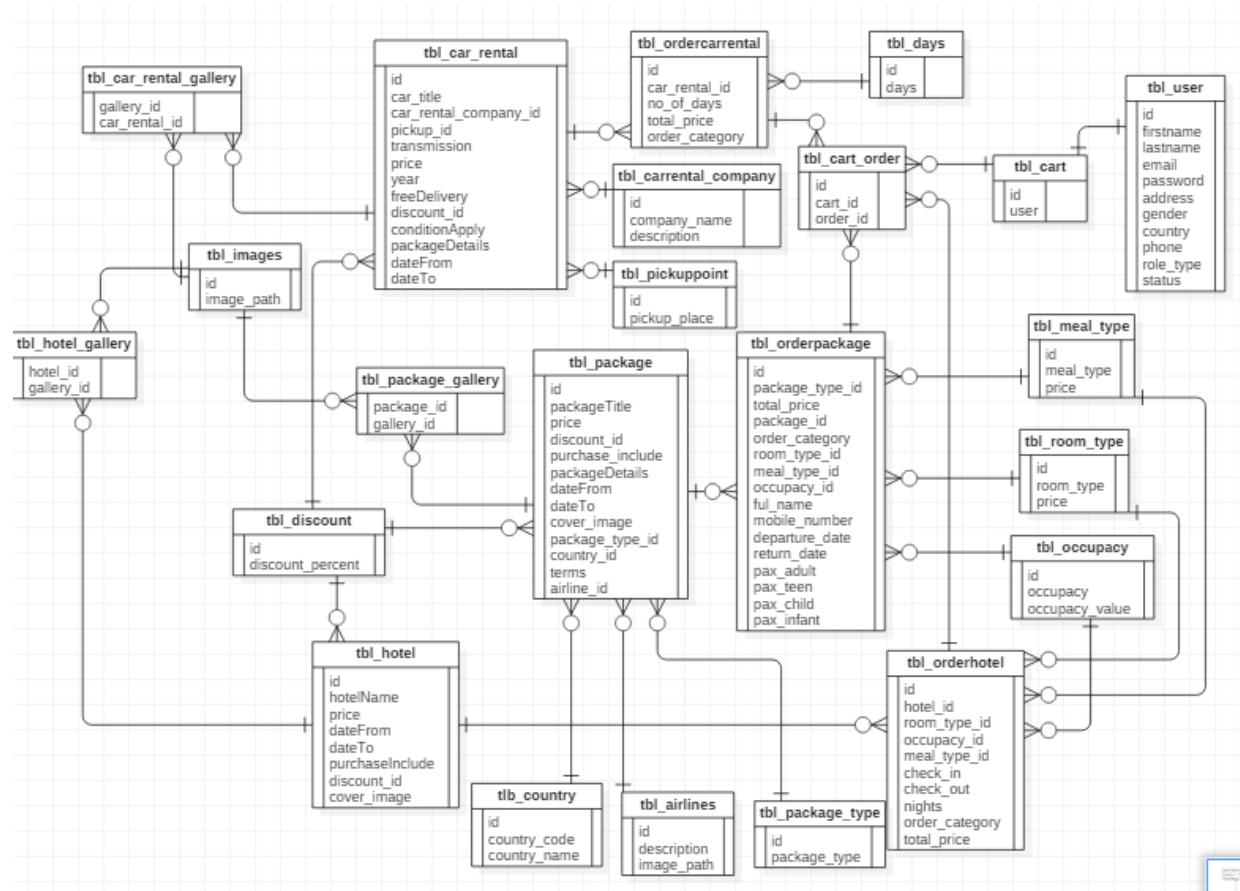


Figure 8: ERD - Physical

6.1.2 Class Diagram

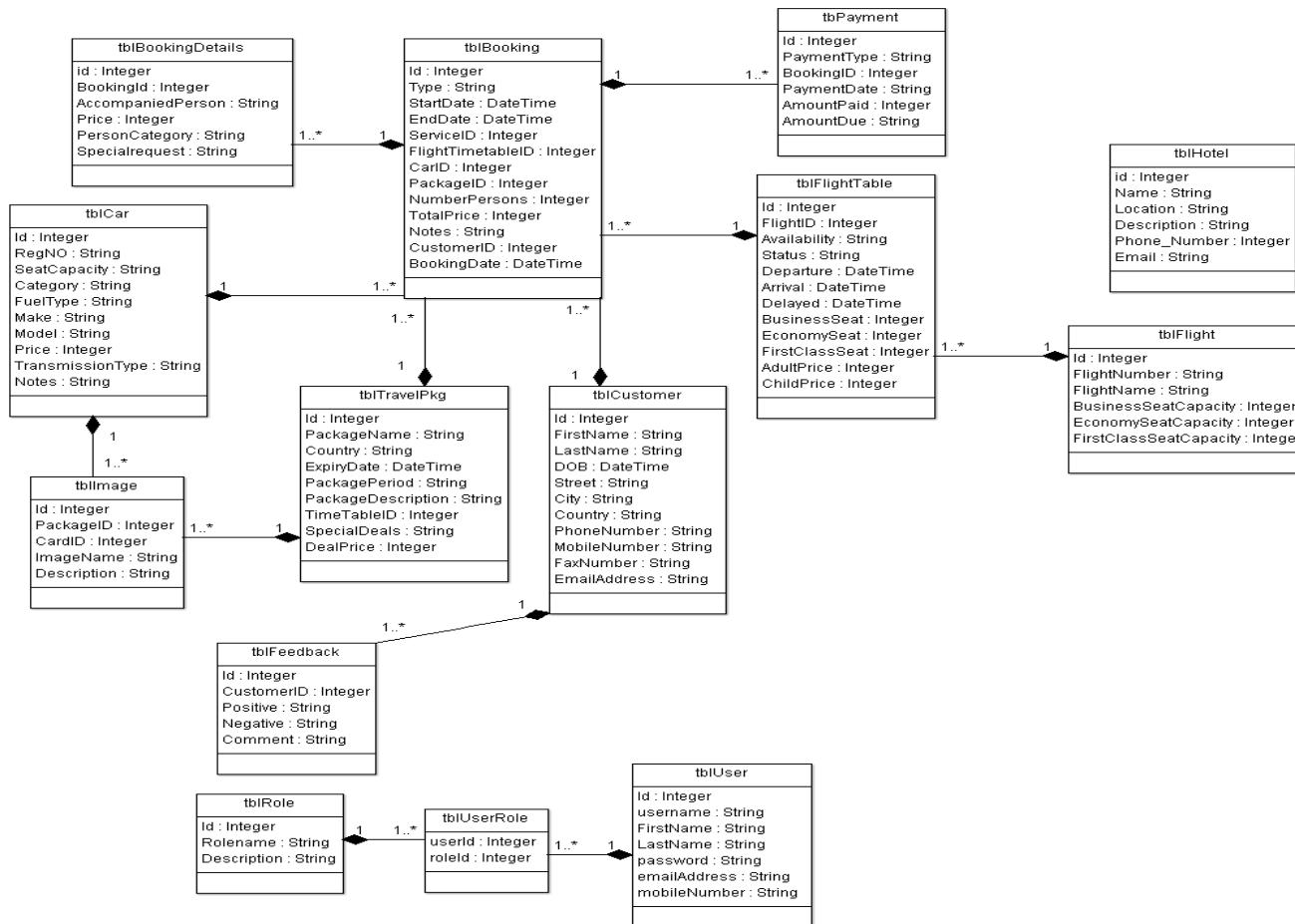


Figure 9: Class Diagram

6.1.3 Use case diagram

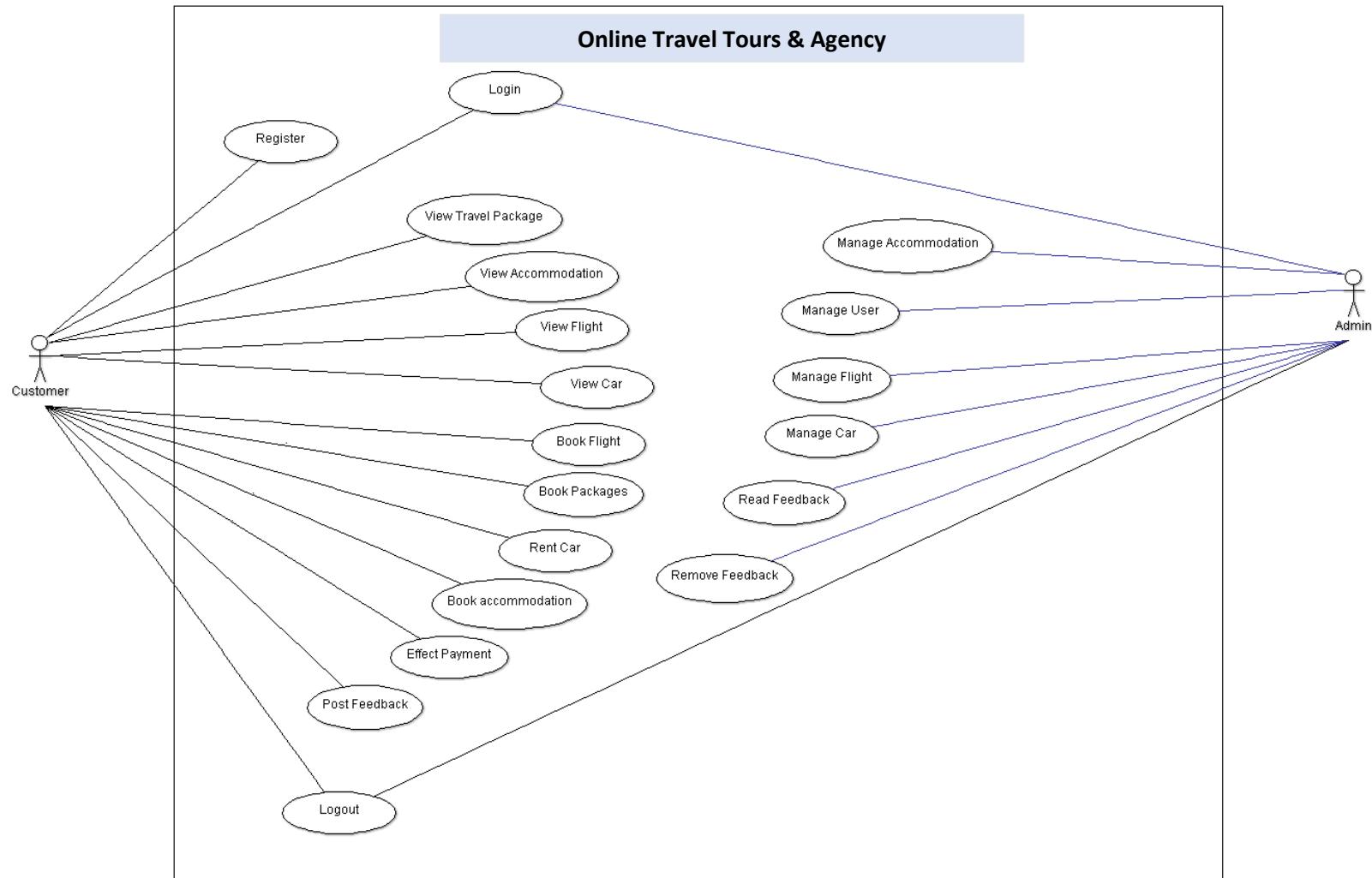


Figure 10: Use Case Diagram

6.1.3.1 Use Case Specification

Use Case:	Online Travel Tours & Agency
Actor	Customer, Admin
Precondition	User is not yet registered
Flow of events:	
Actor Action	<p>System response</p> <ul style="list-style-type: none"> • Customer fills registration form • Customer login • Customer search for packages, accommodations, flights or car rental • Customer post a feedback • Customer book an accommodation, flight, car or package • Customer effect payment • Customer log out • Admin login • Admin edits Accommodation • Admin edits Flights <ul style="list-style-type: none"> • System verifies inputs and register user if correct • System verifies credentials and sign in customer • System searches for given data • System submit feedback • System add a new booking for customer • System effects payment of booking by customer • System remove session for that particular user and log the latter out of the application • System verifies credentials and redirect admin to dashboard • System update accommodation information and returns a success message if correct • System update flight data and returns a success message if correct • System update package data and returns a success message if correct • System update car data and returns a success message if correct • System block or unblock user

- | | |
|--|---|
| <ul style="list-style-type: none">• Admin edits Packages• Admin edits Car• Admin block/unblock users• Admin clicks on log out | <ul style="list-style-type: none">• System destroy admin session and log the latter out of the system |
|--|---|

6.1.4 Data Dictionary

Table Name	Column Name	Data Type	Field Length	Constraint	Value
Tbl_airline	Id	Integer	11	PK – Not Null	
	airline	Varchar	50	Null	
	description	DateTime	-	Null	
Tbl_car_rental_company	Id	Integer	11	PK – Not Null	
	company	Varchar	50	Not Null	
	description	Varchar	50	Not Null	
Tbl_cart	Id	Integer	11	PK -Not Null	
	user	Integer	11	Not Null	
Tbl_cart_order	Id	Integer	11	PK – Not Null	
	Cart_id	Integer	11	Not null	FK
	Order_id	integer	11	Not null	FK
Tbl_car_rental	Id	Integer	11	PK – Not Null	
	Car_title	Varchar	50	Null	
	Car_rental_company	varchar	11	Null	
	Pickup_id	Integer	11	Null	
	Transmission	varchar	50	Null	
	price	Numeric	(18,0)	Null	
	year	Integer	11	PK – Not Null	
	freeDelivery	Varchar	50	Null	
	Discount_id	Varchar	200	Null	
	conditionApply	Varchar	200	Null	
	dateFrom	date	11	Null	
	dateTo	date	11	Null	
Tblcar_rental_gallery	Gallery_id	Integer	11	PK – Not Null	FK

	Car_rental_id	integer	11	Null	FK
Tbl_country	Id	Integer	11	PK – Not Null	
	Country_code	Varchar	50	Not Null	
	Country_name	Varchar	50	Not null	
Tbldays	Id	Integer	11	PK – Not Null	
	days	Varchar	11	Not null	
Tbldiscount	Id	Integer	11	PK – Not Null	
	Discount_percent	Integer	11	Not null	
Tblgallery	Id	Integer	11	PK – Not Null	
	imagePath	Varchar	50	Not null	
Tblhotel	Id	Integer	11	PK – Not Null	
	hotelName	varchar	25	Null	
	Price	Integer	1	Null	
	dateFrom	Date	11	Null	
	dateTo	Date	11	Not Null	
	purchaseInclude	Varchar	200	Null	
	packageDetails	Varchar	20022	Null	
	Discount_id	integer		Not null	

Tbl_hotel_gallery	Gallery_id	Integer	11	Not Null	FK
	Hotel_id	integer	11	Not null	FK

Tbl_meal_type	Id	Integer	11	PK – Not Null	
	Meal_type	Varchar	50	Not Null	
	Price	integer	11	Null	
Tbloccupacy	Id	Integer	11	PK – Not Null	
	occupacy	Varchar	10	Null	
	Occupancy_value	integer	3		
Tbl_ordercarrental	Id	Integer	11	PK – Not Null	
	Car_rental_id	Integer	11	Not null	FK
	No_of_days	Integer	11	Not null	
	Total_price	Integer	11	Not null	
	Order_category	varchar	11	Not null	
Tblrorderpackage	Id	Integer	11	PK – Not Null	
	Hotel_id	Integer	11	Not null	FK
	Room_type_id	Integer	11	Not Null	FK
	Occupacy_id	Integer	11	Not Null	FK
	Meal_type_id	Integer	11	Not Null	FK
	Check_in	date	11	Not Null	
	Checkout	date	11	null	
	nights	integer	5	null	
	Order_category	varchar	50	Not null	
	Total_price	Integer	11	Not Null	
Tblhotel	Id	Integer	11	PK – Not Null	
	hotelName	Integer	11	Not null	
	Price	integer	11	Null	
	dateFrom	date	11	Not null	
	dateTo	date	200	Not Null	
	purchaseInclude	Varchar	200	Null	
	packageDetails	Varchar	200	Null	
Tblhotel	Id	Integer	11	PK – Not Null	
	Package_type_id	Integer	11	Null	References tblCustomer(Id)

	Total_price	Char	1	Null	
	checkin	Char	1	Null	
	Package_id	Varchar	200	Not Null	
	Order_category				
	Room_type_id				
	Meal_type_id				
	Occupancy_id				
	Full name				
	Departure_date				
	Return_date				
	pax_adult				
	paxteen				
	Pax_infant				

Tblpackage	Id	Integer	11	PK – Not Null	
	Package_title	Varchar	11	Null	
	price	Integer	1	Null	
	Discount_id	Char	1	Null	FK
	Purchase include	Varchar	200	Not Null	
	OpackageDetails	Varchar			
	DateFrom	date			
	dateTo	date			
	Cover_image				
	packageType_id	Integer			
	Country_id	Integer			
	terms	Varchar			
	Airline_id	Integer			

Tblpackage_type	Id	Integer	11	PK – Not Null	
	Package_type	Integer	11	Not null	

Tblpickup_point	Id	Integer	11	PK – Not Null	
	Pickup_place	Integer	11	Not null	

Tblroom_type	Id	Integer	11	PK – Not Null	
	Room_type	Integer	11	Not null	
	Price	Char	1	Not null	

Tbluser	Id	Integer	11	PK – Not Null	
	Firstname	Varchar	11	Null	
	Last_name	Varchar	1	Null	
	Email	Varchar	1	Null	
	Password	Varchar	200	Not Null	
	gender	Varchar	6	Not Null	
	country	Varchar	12	Not Null	
	phone	Integer	12	Not Null	
	roletype	Varchar	11	Not Null	
	status	Integer	1	Not Null	

6.2 User Interface Design

Customer Section

Home Page

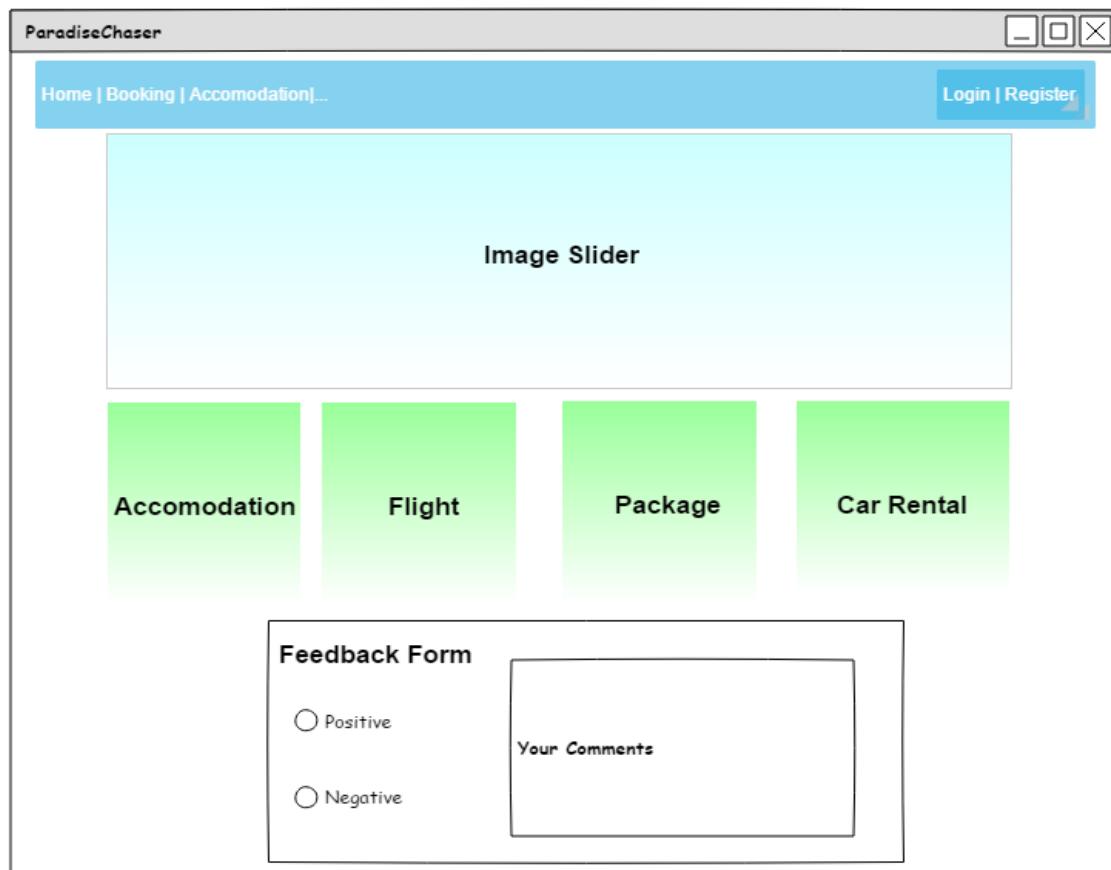
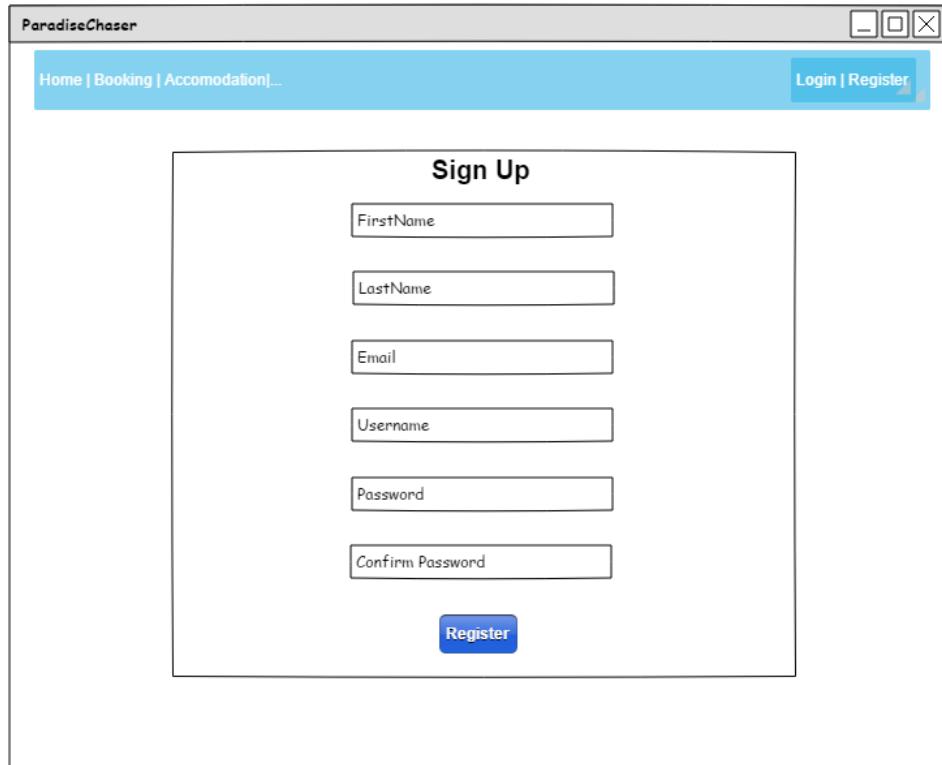


Figure 11: Homepage interface design

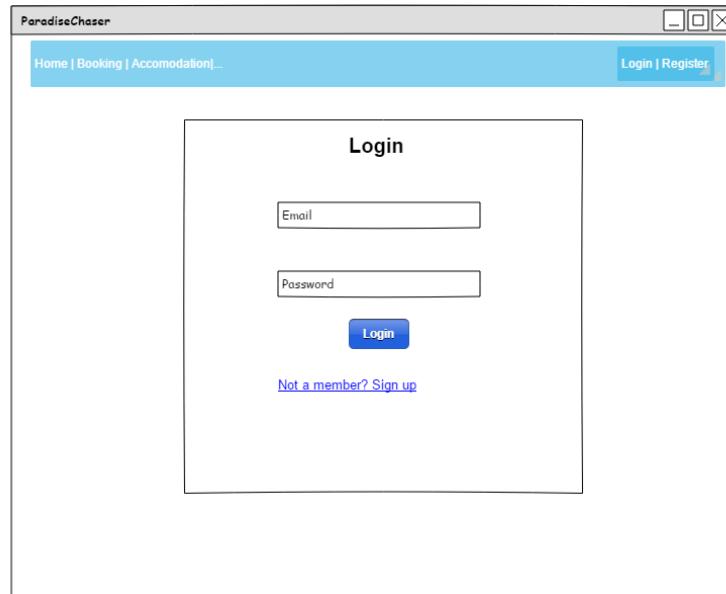
Register



A wireframe diagram of a 'Sign Up' registration form. The window title is 'ParadiseChaser'. The top navigation bar includes links for 'Home | Booking | Accommodation|...' and 'Login | Register'. The main content area is titled 'Sign Up' and contains six input fields: 'FirstName', 'LastName', 'Email', 'Username', 'Password', and 'Confirm Password'. A blue 'Register' button is located at the bottom of the form.

Figure 12: Register interface design

Login



A wireframe diagram of a 'Login' form. The window title is 'ParadiseChaser'. The top navigation bar includes links for 'Home | Booking | Accommodation|...' and 'Login | Register'. The main content area is titled 'Login' and contains two input fields: 'Email' and 'Password'. A blue 'Login' button is located below the password field. Below the button, there is a link 'Not a member? Sign up'.

Figure 13: Login interface design

Book Accommodation Page

The screenshot shows a web page titled "Accommodation" under the "ParadiseChaser" header. The header also includes links for "Home | Booking | Accommodation" and "Login | Register". The main content area contains two sets of booking fields, each with a "Photo" placeholder, "Name", "Description", "Price", "Location", "Other details", and a "Book" button.

Photo	Name	Description	Price
	Location	Other details	Other details
	Book		

Photo	Name	Description	Price
	Location	Other details	Other details
	Book		

Figure 14: Book Accommodation interface design

Book Flights Page

The screenshot shows a web page titled "Flight" under the "ParadiseChaser" header. The header includes links for "Home | Booking | Accommodation" and "Login | Register". The main content area contains two sets of booking fields, each with a "Photo" placeholder, "Name", "Description", "Price", "Category", "FlightNumber", and a "Book" button.

Photo	Name	Description	Price
	Category	FlightNumber	Other details
	Book		

Photo	Name	Description	Price
	Category	FlightNumber	Other details
	Book		

Figure 15: Flight interface design

Car Rental Page

The image shows a wireframe of a web page titled "ParadiseChaser". At the top, there is a navigation bar with links for "Home | Booking | Accomodation..." and "Login | Register". Below the navigation bar, the main content area is titled "Car". It displays two separate car listing forms, each consisting of a "Photo" placeholder, input fields for "Name", "Description", "Price", "Make", "Model", and "Other details", and a "Book" button.

Photo	Name	Description	Price	Make	Model	Other details	Book
Photo	Name	Description	Price	Make	Model	Other details	Book

Figure 16: Car rental interface design

Admin Section

Crud operations

The image displays three separate interface designs, each titled with a bold black font header and a green 'CREATE NEW' button in the top right corner. Below the header is a large input field with a placeholder text box containing descriptive text. To the right of the input field are three buttons: 'EDIT' (blue), 'DETAILS' (blue), and 'REMOVE' (red). The first interface is titled 'Manage Flights' and its placeholder text is 'Flight details such as flight name, number, seat capacity and so on..'. The second interface is titled 'Manage Car' and its placeholder text is 'Car details such as car make, car model and so on...'. The third interface is titled 'Manage Accomodations' and its placeholder text is 'Accommodation details such as location, pricing and so on...'.

Manage Flights CREATE NEW

Flight details such as flight name, number, seat capacity and so on..

EDIT DETAILS REMOVE

Manage Car CREATE NEW

Car details such as car make, car model and so on...

EDIT DETAILS REMOVE

Manage Accomodations CREATE NEW

Accommodation details such as location, pricing and so on...

EDIT DETAILS REMOVE

Figure 17: Manage Flight, Accommodations, Car interface design

Upon clicking on the create new button, the user is redirected to the following form:

The diagram illustrates the transition from a button to a form. On the left, a green rectangular button labeled "CREATE NEW" is enclosed in a red rectangular border. A blue arrow points from this button to the right, leading into a light gray rectangular form area. The form contains the following fields and controls:

- Name
- Notes
- FuelType
- Categories ▾
- Pricing
- Automatic Manual
- SAVE** Cancel

Figure 18: CRUD - Create New interface design

Chapter 7: Implementation

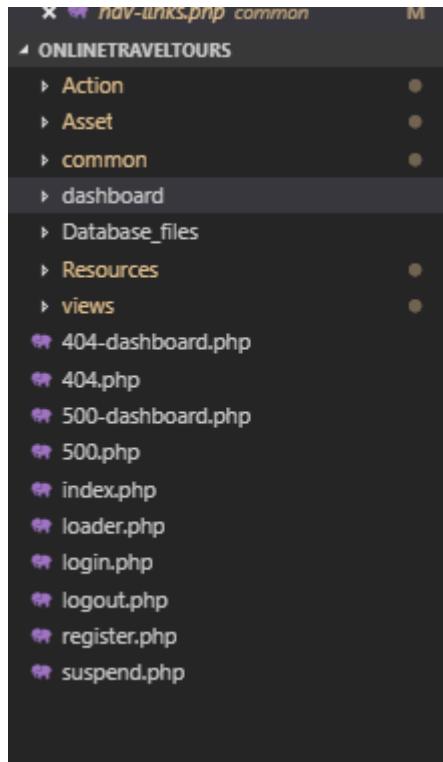
7.0 Implementation

Plugins Used for Paradise Chaser Development

1. Bootstrap 4.0.0
2. PHP
3. Mysql
4. HTML, CSS
5. JQuery
6. JavaScript
7. FlatPickr Datepicker
8. Jquery form validation
9. Bootstrap Datatable
10. Jquery Zoom image effect
11. Slick JS For slider effect
12. Bootstrap Datepicker

This project was developed using VSCode editor, PHP 7 and MySQL database

Folder structure



Action: This file contains all the php scripts required for the functionality of the website.

Asset: The common file contains the front-end part of the website i.e. the JS, CSS, fonts and images used.

Common: The folder common contains the common elements found on the webpages in order to prevent code duplications

It consists of the header, footer both by admin and customer interface

Dashboard: the dashboard folder contains all admin pages as well as all uploaded images onto the site

View: The folder view contains all the webpages of the web applications of the user interface section.

Coding structure

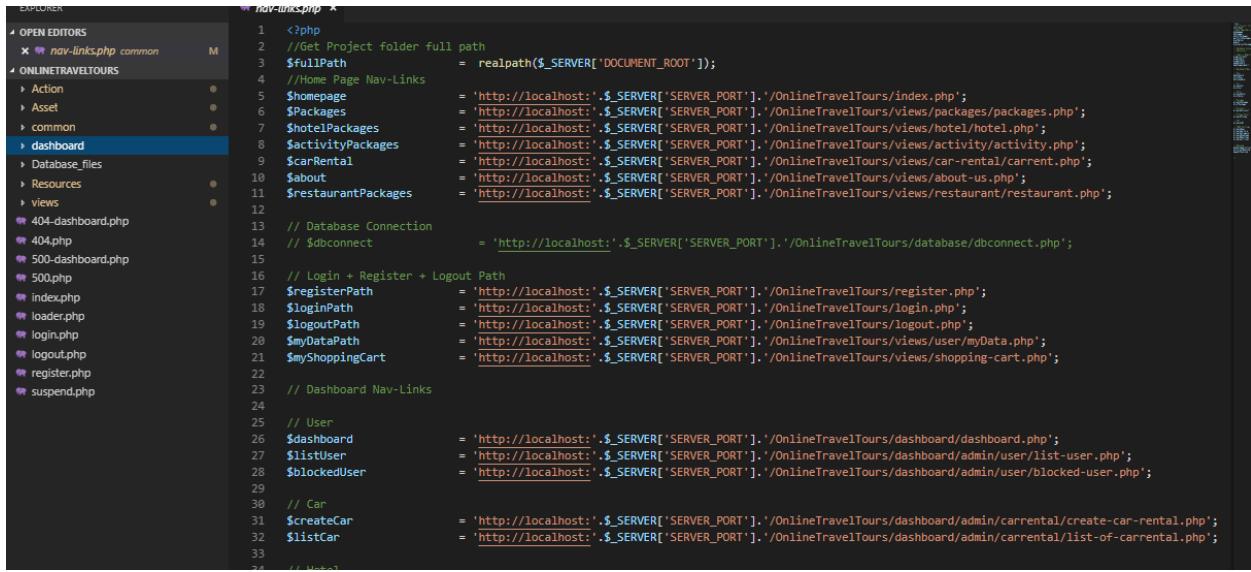
Reducing code duplication

External php files were used in order to eliminate code duplication for example:

1. An icon file was created so that any icon created becomes reusable

2. A nav-link file was created to link all pages and links and making them remains in their correct paths as shown below:

Nav links PHP



```

<?php
//Get Project folder full path
$fullPath = realpath($_SERVER['DOCUMENT_ROOT']);

//Home Page Nav-Links
$homepage = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/index.php';
$Packages = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/views/packages/packages.php';
$hotelPackages = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/views/hotel/hotel.php';
$activityPackages = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/views/activity/activity.php';
$carRental = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/views/car-rental/current.php';
$about = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/views/about-us.php';
$restaurantPackages = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/views/restaurant/restaurant.php';

// Database Connection
// $dbconnect = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/database/dbconnect.php';

// Login + Register + Logout Path
$registerPath = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/register.php';
$loginPath = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/login.php';
$logoutPath = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/logout.php';
$myDataPath = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/views/user/myData.php';
$myShoppingCart = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/views/shopping-cart.php';

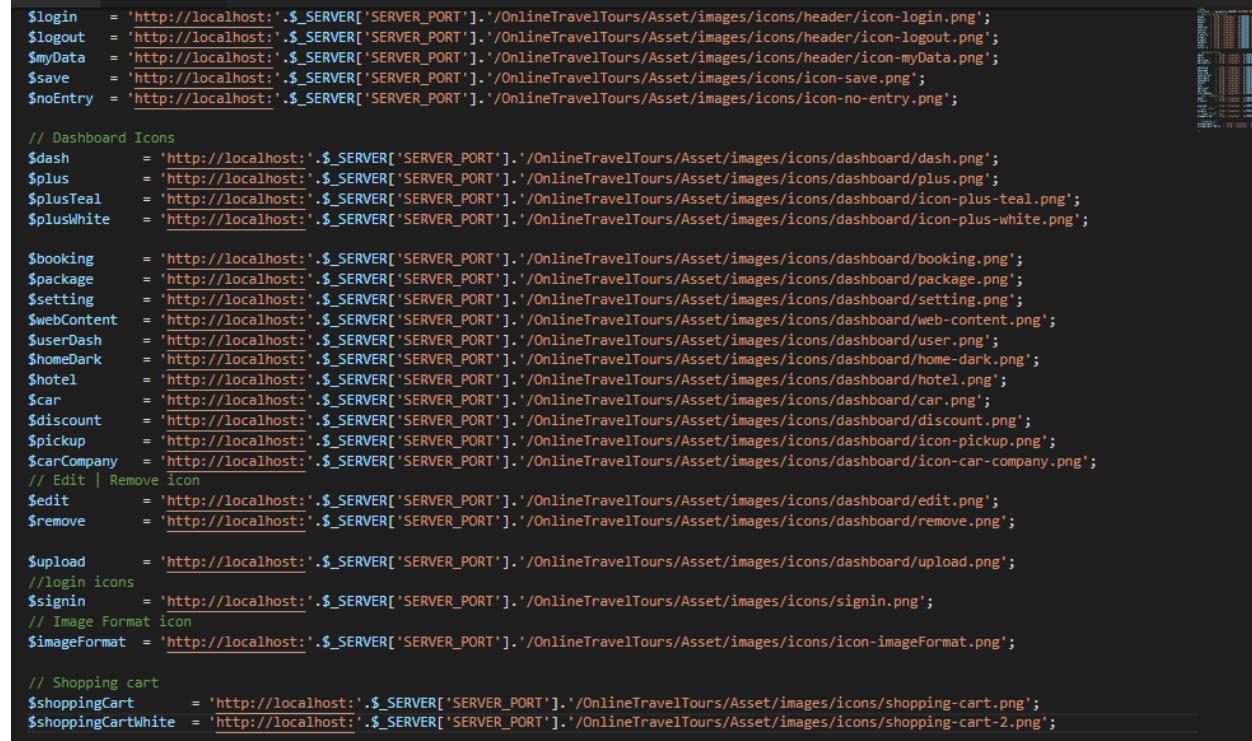
// Dashboard Nav-Links
// User
$dashboard = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/dashboard/dashboard.php';
$listUser = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/dashboard/admin/user/list-user.php';
$blockedUser = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/dashboard/admin/user/blocked-user.php';

// Car
$createCar = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/dashboard/admin/creatental/create-car-rental.php';
$listCar = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/dashboard/admin/creatental/list-of-creatental.php';

// Hotel

```

Icons PHP



```

$login = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/header/icon-login.png';
$logout = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/header/icon-logout.png';
$myData = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/header/icon-myData.png';
$save = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/icon-save.png';
$noEntry = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/icon-no-entry.png';

// Dashboard Icons
$dash = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/dash.png';
$plus = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/plus.png';
$plusTeal = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/icon-plus-teal.png';
$plusWhite = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/icon-plus-white.png';

$booking = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/booking.png';
$package = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/package.png';
$setting = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/setting.png';
$webContent = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/web-content.png';
$userDash = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/user.png';
$homeDark = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/home-dark.png';
$hotel = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/hotel.png';
$car = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/car.png';
$discount = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/discount.png';
$pickup = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/icon-pickup.png';
$carCompany = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/icon-car-company.png';

// Edit | Remove icon
$edit = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/edit.png';
$remove = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/remove.png';

$upload = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/dashboard/upload.png';
// login icons
$signin = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/signin.png';
// Image Format icon
$imageFormat = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/icon-imageFormat.png';

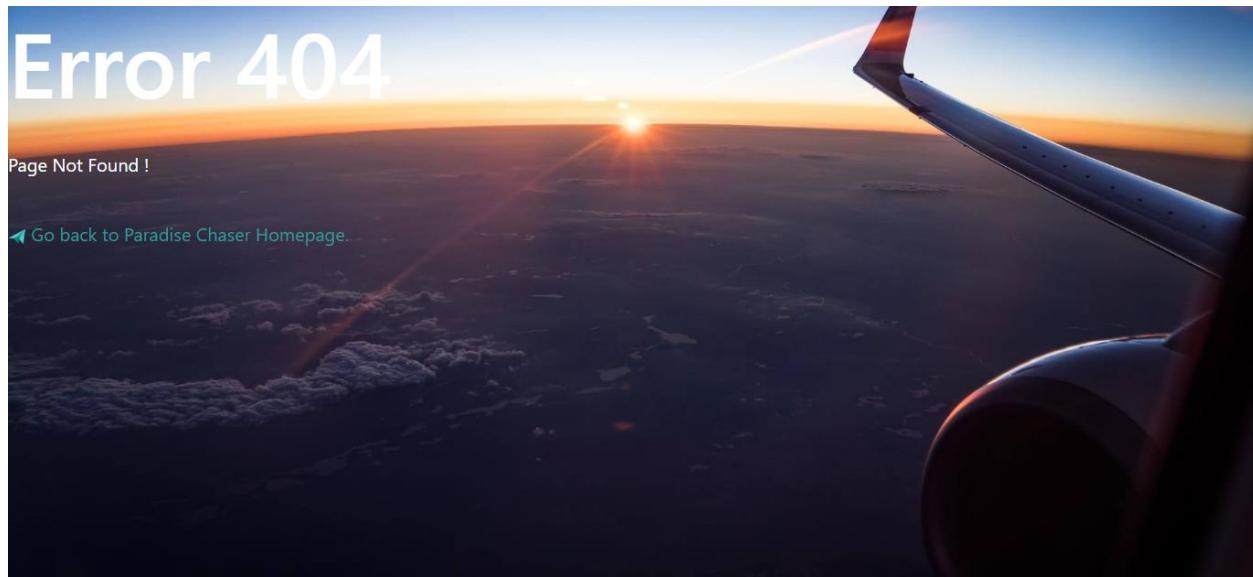
// Shopping cart
$shoppingCart = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/shopping-cart.png';
$shoppingCartWhite = 'http://localhost:'.$_SERVER['SERVER_PORT'].'/OnlineTravelTours/Asset/images/icons/shopping-cart-2.png';

```

3. Error pages

2 error pages was developed namely page 404 and page 500

404 – will appear If ever page Is not found/ items not found



500- will appear if ever there is an issue on the database part or the site has been down i.e. server error



Chapter 8: Testing

8.0 Testing

8.1 Whitebox testing

White-box testing complements unit testing and integration testing. Given below ParadiseChaser test case:

Pre-conditions: Tester should have knowledge of the

- Internal coding about the web application (e.g. programming language used)
- How to make use of a web application.
- Tester must understand the inner working of the system.

Step No.	Test Cases	Test Data	Expected Result	Actual Result	Status
1.	Customer sign up		Customer must be able to create an account upon clicking on sign-up button.	A sign-up form page is displayed to user on a page.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
			Upon clicking on the register button, user must register into the system.	A success message is shown and user is successfully registered into the system	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
	Registering a new customer	FirstName ='John' LastName ='Smith'	Firstname and lastname accepted	User can make use of this firstname and lastname	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
		Username ='John123'	Username accepted	Customer can make use of this username	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>

		Username ='John123'	Username not accepted	Error message is displayed as username already exists.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
		Email = '1234' Email = 'john@'	Error message showing invalid email entered.	Error message for invalid email and a pop up appears for tip.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
		Email= johnsmith@gmail.co m'	No error message, correct email entered.	Message displayed as Valid email address	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
		Password = 'abcd123 Password = 'abcd'	Display error message.	Error message is displayed showing password too short.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
		Password = 'hello12345678'	Display error message.	Password must consist of an upper-case letter.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
		Password = 'SecurityCode20181 ! Confirm password = ""	No error message for, password text field but error message in confirm password.	Please fill out confirm password field.	Passed <input checked="" type="checkbox"/> Failed <input checked="" type="checkbox"/>
		Password = 'helloworld20181!' Confirm Password = 'helloworld20181!'	No error message displayed. Correct password and confirm password.	Password and Confirmed Password fields does not match	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
		All fields empty	Error message displayed for each field.	Error message is displayed under each field and are highlighted in red color.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>

Test Case Details					
Test Case ID	Test Case Name	Preconditions	Test Steps	Expected Results	Status
2.	Customer login				Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
			Customer must be able to log into the application upon clicking on the sign-in button.	A login page is displayed to user asking for login credentials (username & password).	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
			Customer must be able to enter login credentials.	Customer is redirected to homepage after successfully logged in. A navigation bar is displayed with the different options available such as home, flights, accommodations, logout and so on. Customer session is created and will be close when the user logout from the system.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
	Login for a registered customer	Email = "John123@gmail.com" Password = "John1!"	User successfully login. User is redirected to homepage.	User logs in. User is redirected to respective homepage.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
	Customer entering wrong credentials in the login form.	Email = "jogn12@yahoo.com" Password = "abcd1!"	Error message is displayed. User is notified that account does not exit.	Error message is displayed.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>

	Customer entering blank values in the login form.	Email = "" Password =""	Error message is displayed.	Error message is displayed stating to fill in the required fields.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
3.	Customer view packages		Customer must be able to view a list of travel packages	Upon clicking on the packages card from the homepage, a list of all packages available are displayed to user.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
4.	Customer book flight		Customer click on flights from the homepage or navigation area. Customer must be able to book a flight	Customer view flight details. Customer click on book button in order to book flight	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
5.	Customer rent a car		Customer click on flights from the homepage or navigation area. Customer must be able to rent a car	Customer gets car available. Customer click on the rent car button in order to rent a car	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
6.	Customer make payment		Customer make payment for item book	Customer is redirected to payment form to complete payment transaction	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
7.	Customer view accomodations		Customer must be able to view list of accommodation i.e. hotels available.	Upon clicking on the accommodation link from the navigation area or the home page, customer is redirected to accommodation page and have a list of all available hotels.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>

8.	Customer book an accomodation		Customer must be able to book a hotel for his/her accommodation	Hotel is book upon clicking on the book button found in the accommodation page.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
9.	Customer book a package		Customer must be able to book a package on the website	Customer clicks on the package link from the home page and us redirected to the package list. Upon clicking on the book package button, customer has successfully booked a package.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
10.	Customer can post a feedback	Customer must be able to post a review on the company.	User must go to the bottom of the homepage and have the ability to post a feedback. .	Customer feedback is successfully posted. The latter cannot post more than 1 feedback.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
11.	User submit empty feedback	Positive = '' Negative ='' Comments = ''	Error message is shown.	Please fill up the required fields.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
12.	User submit a proper feedback	Positive checked Negative = '' Comments ='This is a positive review'	No error message is displayed.	Feedback has been successfully posted.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
13.	Admin login		Admin must be able to enter registered credentials to login to ParadiseChaser dashboard.	Upon successful login, admin dashboard is displayed. Admin name is appeared on the page.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>

				Admin logout button is displayed on the page.	
<hr/>					
14.	Admin manages users		Admin must be able to view all the list of users using the system.	Admin can access the list of users.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
			Admin must be able to block a user	Upon clicking on the block button, user is successfully blocked.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
			Admin must be able to unblock a user	Upon clicking on the block button, user is successfully unblocked.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
<hr/>					
15.	Admin manages accommodations		Admin must be able to view all list of available accommodations	Upon clicking on the view accommodations, Admin can access all the accommodations available	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
			Admin must be able to update an accommodation	Upon clicking on the update button, a form is displayed to the user and the latter is prompted to change values as required. Item is successfully updated.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
			Admin must be able to remove an accommodation	Upon clicking on the remove button, an alert message is shown in order to confirm removal of item. Item is successfully removed.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
			Admin must be able to create a new accommodation	Upon clicking on the create new button, a form is shown to create a	Passed <input checked="" type="checkbox"/>

				new accommodation. A new accommodation is successfully created.	Failed <input type="checkbox"/>
16. Admin manages flights					
16.	Admin manages flights		Admin must be able to view all list of available flights	Upon clicking on the view accommodations, Admin can access all the flights available	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
			Admin must be able to update a flight	Upon clicking on the update button, a form is displayed to the user and the latter is prompted to change values as required. Item is successfully updated.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
			Admin must be able to remove a flight	Upon clicking on the remove button, an alert message is shown in order to confirm removal of item. Item is successfully removed.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
			Admin must be able to create a new flight	Upon clicking on the create new button, a form is shown to create a new flight. A new flight is successfully created.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
17. Admin manages car rental					
17.	Admin manages car rental		Admin must be able to view all list of car rental by customers	Upon clicking on the view car rental, Admin can access all the car for rent available	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>

18.	Admin manages cars		Admin must be able to view all list of available cars	Upon clicking on view cars, a list of all available cars for rent are displayed to admin.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
			Admin must be able to update a car	Upon clicking on the update button, form is populated and displayed to user. User is prompted to change data as required. Car has been successfully updated.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
			Admin must be able to remove a car	Upon clicking on the remove button, car is successfully removed from the system	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
			Admin must be able to create a new car	Upon clicking on the create new car button, a form is displayed asking to enter data. After success form filling, a new car is created.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
19.	Admin view feedbacks/reviews		Admin must be able to remove abusive feedbacks from customers	Feedback is successfully removed upon clicking on the remove button.	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>

8.2 Black Box testing

Black box testing is a software testing technique that focuses on the analysis of software functionality, versus internal system mechanisms. Black box testing was developed as a method of analyzing client requirements, specifications and high-level design strategies.

Pre-conditions:					
Step No.	Test Cases	Test Data	Expected Result	Actual Result	Status
1.	Fill out the registration form completely and click on the register button	Click on sign-up Enter all required fields Click on sign up button	If all inputs is correct, and complete so user should be registered	Working as expected	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
2.	Check if edit button works on the accommodation page	Click on the edit button in the accommodation page in the admin section	If data has been updated without errors, then the edit button is working.	Working as expected	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
3.	Check if register button works	Click on the register button in the sign-up page	If success message appears once customer clicks on the register button, it means that the customer has been successfully registered into the web application	Working as expected	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
4.	Check if logout button works	Click on the logout button found on your navigation bar	If user is logged out from the system and all session are destroyed for that user, it means the logout button is working.	Working as expected	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>

5.	Check if Remove button works in the admin section for removing a car from the system	Click on the remove button for car in the admin section	If message is shown stating that item has been removed successfully, then remove button is working	Working as expected	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
6.	Check if customer can login properly	Click on the login button from the navigation area and enter login credentials for a customer	Customer must be redirected to homepage but with a different navigation area i.e. the customer name must be seen on the navigation bar as well as the logout button	Working as expected	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
7.	Check if admin can login properly	Click on the login button from the navigation area and enter login credentials for an admin	Admin must be redirected to admin dashboard	Working as expected	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
8.	Check if customer can post a feedback	Select either negative or positive feedback from the homepage feedback form and write any comment about the company	If upon clicking post button, a success message is displayed, then the feedback has been successfully posted	Working as expected	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
9.	Check if customer can search available accommodations, cars, flights or packages	Click on the search bar given in the homepage and type any keywords required	If a display is shown according to what you have typed into the search bar then the search function is working	Working as expected	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>
10.	Check if admin can block or unblock a particular user	Click on the block button in order to block a user or unblock to unblock the user	If upon clicking on the block/unblock user button, a message is shown stating that user has been successfully blocked/unblocked, then the functionality is working	Working as expected	Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>

Chapter 10: Conclusion

10.0 Conclusion

10.1 Overview of the system

Paradise chaser is a website which has been developed using PHP where users can view all services that its local showrooms are offering.

Customers may view the website without being a member but in order to conduct any transactions such as booking of a

- Car for rental
- Holiday package
- Flight
- Hotel

Also posting a feedback about the website and its services they are currently offering and Pay online payment platform and a pay at show room service.

Customer's login is very easy as the 'Log In' button is easily spotted on top of the website(Right hand side of the navbar) and if they click on a functionality that requires signing in and they have not yet, they will be redirected on the login page where they will either log in directly if they are already a customer else they will have to register as a customer first in order to continue with their desired transaction.

Note: -

Upon log in, according to their roles and permissions set, they will be redirected to their allocated pages.

Admin will be automatically redirected to the Admin Homepage where they will :

- Select from either Cars, Packages, Flight (airplane company), Flight Timetable (Scheduled flight departures), Customers and Accommodation and perform any CRUD operation.
- Select a customer from the list of customers and block him from logging into the website
- View feedbacks
- View the list of payments

10.2 Strength of the website

The website is protected against brute force attacks

Online payment is done with one of the most secure and most reliable platforms.

It has been deployed on the fastest and one of the biggest servers

Azure is one the most secure servers and it comes with various benefits such as two factor authentication and may others

Roles determine access permissions of a user upon login

Administrators may choose to allow a user access on the website by simply blocking him/her or unblock

Customers are able to give feedbacks so that the management offers better service and capture the market

There is a fully functional shopping cart to merge all bookings and pay at one go.

Online payment is not the only mode of payment when booking on the website.

10.3 Weakness

Customers are not able to cancel their bookings or notify when he misses a flight.

There is no refunding

There are no pre-bookings

10.4 Future improvements

Implement paypal for payments

Administrators approve orders even after payment so as to clear any confusion before mistakes or misconceptions occur on date booked of any items (may decrease number of customers as this is often viewed as poor quality service)

Discount system for customers for loyal clients (Track regular clients)

Newsletters upon updates

Refund system for customers in different situations

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Appendices

12.0 Appendices

12.1 User manual

System Configuration

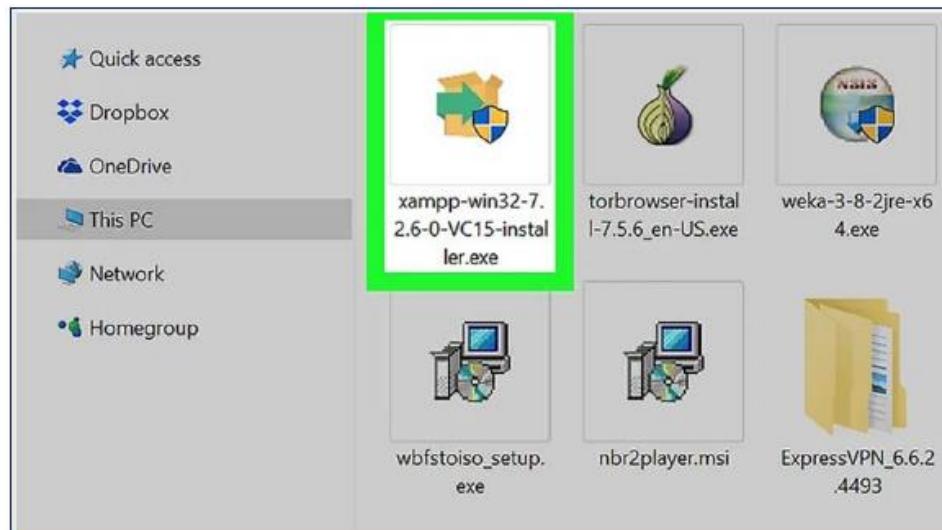
Software Required to launch web application

1. Xampp

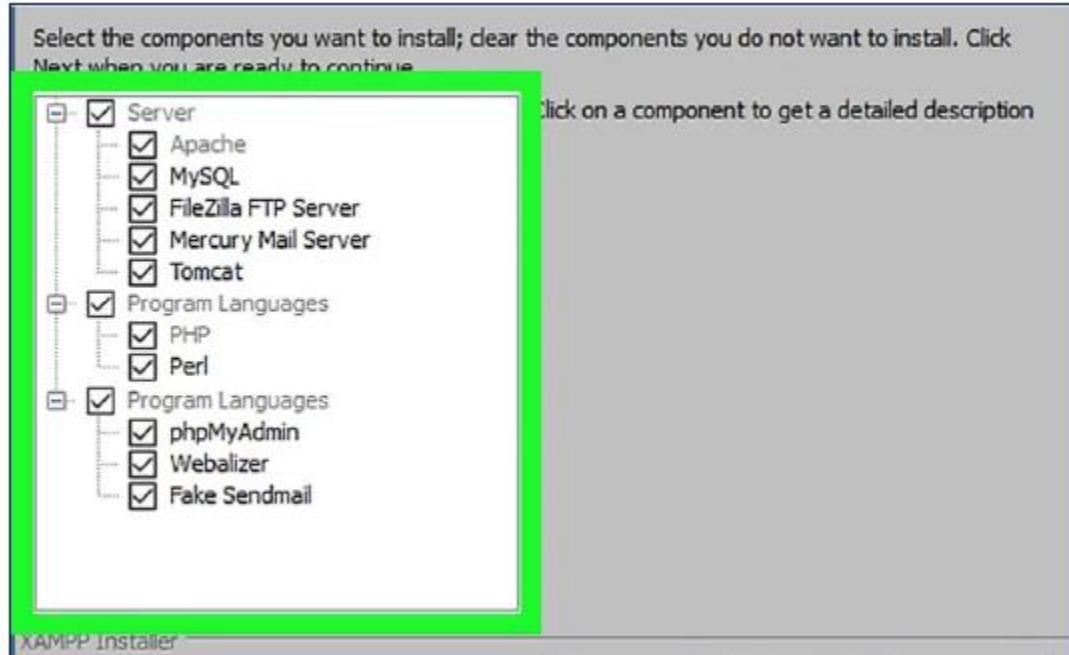
XAMPP installation can be downloaded from the following website
<https://www.apachefriends.org/download.html>

Steps to setup XAMPP:

a) Run the Xamp exe file on your computer



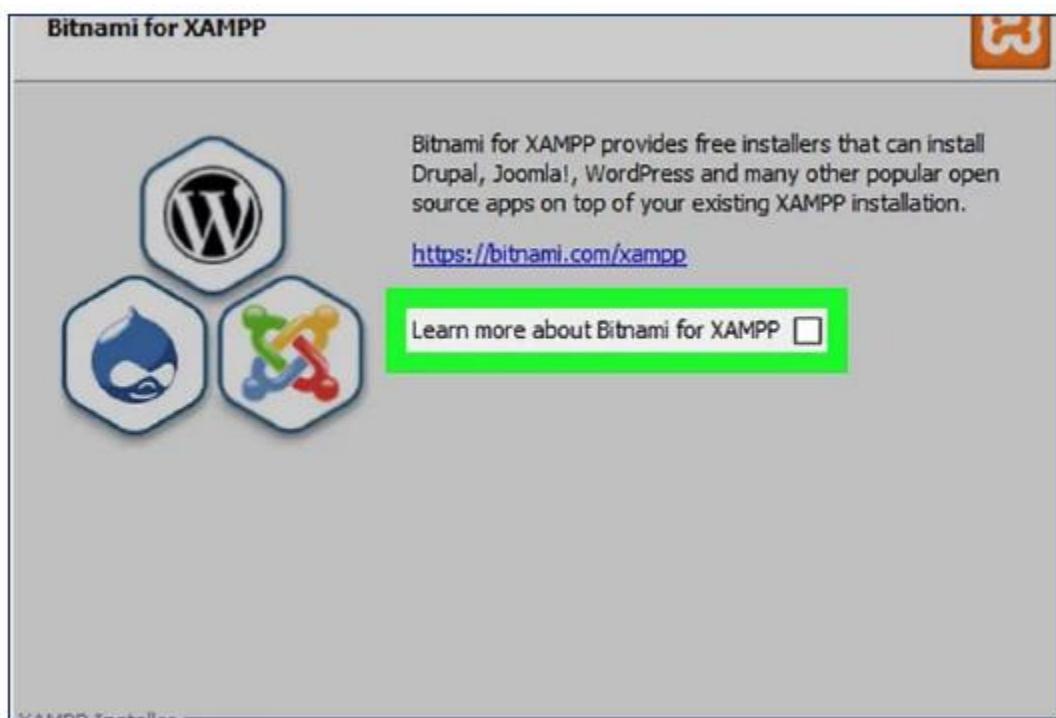
b) Select the components you want to install, in our case, we select all of them as precautionary measures.



- c) The next step is to click on the 'Next' button. A screen will appear asking which directory to install the program. By default, it is '**C:\xampp**', however this can be modified to your desired directory.

After the 'Next' button, the following screen will appear:

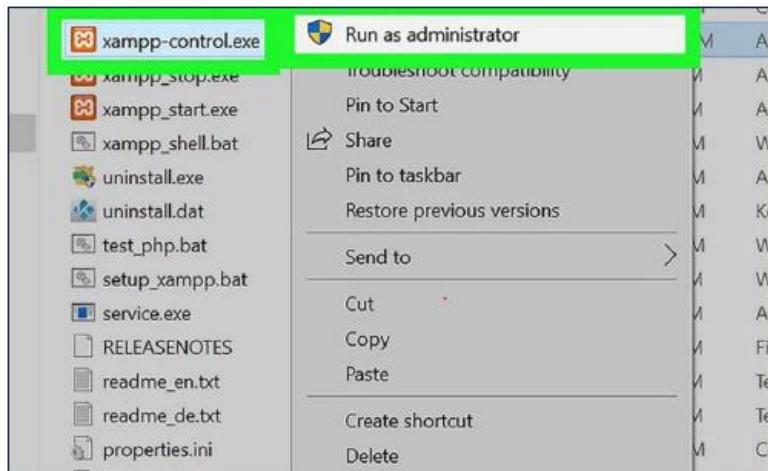
It is advisable to uncheck it unless you want to learn in dept about XAMPP. This is optional.



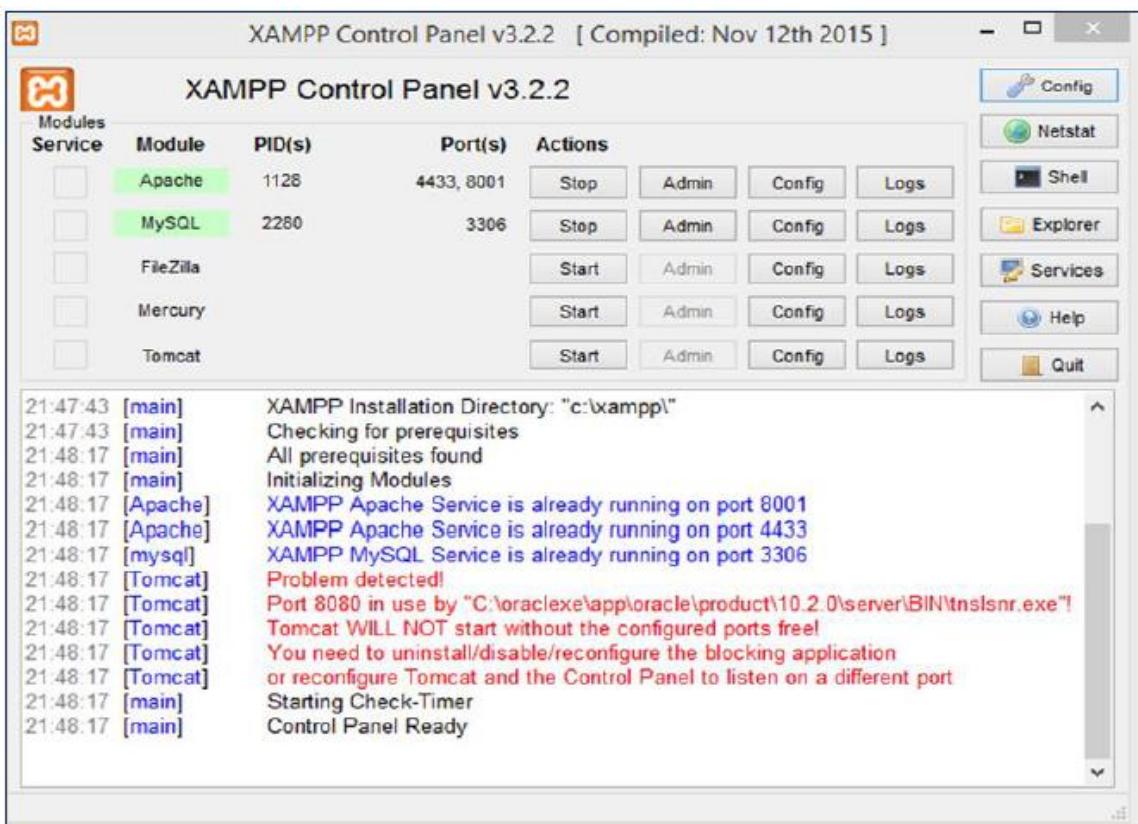
- d) The program will now be installed and upon clicking on the 'Finish' button, a pop up will appear asking the language of the program in which to display.

Select your preferred language (most used: English) and click on 'OK'.

As shown in the figure below, open the 'xampp-control.exe' with admin rights:



- e) Once configured, the following control panel will appear, start Apache and MySQL only.



2. Phpmyadmin

Phpmyadmin is the repository where your database will be stored.

Steps to configure database:

- Open your web browser and type in localhost followed by your port number for example, localhost:8000 or localhost:1234 or localhost:2646. If you are not sure about your port number, please see figure below to locate yours:



Once you entered <http://localhost:8001/> on your web browser, the following is displayed:



Welcome to XAMPP for Windows 7.2.0

You have successfully installed XAMPP on this system! Now you can start using Apache, MariaDB, PHP and other components. You can find more info in the FAQs section or check the HOW-TO Guides for getting started with PHP applications.

XAMPP is meant only for development purposes. It has certain configuration settings that make it easy to develop locally but that are insecure if you want to have your installation accessible to others. If you want have your XAMPP accessible from the internet, make sure you understand the implications and you checked the FAQs to learn how to protect your site. Alternatively you can use WAMP, MAMP or LAMP which are similar packages which are more suitable for production.

Start the XAMPP Control Panel to check the server status.

Community

XAMPP has been around for more than 10 years – there is a huge community behind it. You can get involved by joining our Forums, adding yourself to the Mailing List, and liking us on Facebook, following our exploits on Twitter, or adding us to your Google+ circles.

Contribute to XAMPP translation at translate.apachefriends.org.

Can you help translate XAMPP for other community members? We need your help to translate XAMPP into different languages. We have set up a site, translate.apachefriends.org, where users can contribute translations.

Install applications on XAMPP using Bitnami

Apache Friends and Bitnami are cooperating to make dozens of open source applications available on XAMPP, for free. Bitnami-packaged applications include Wordpress, Drupal, Joomla! and dozens of others and can be deployed with one-click installers. Visit the Bitnami XAMPP page for details on the currently available apps.



Select phpMyAdmin on the top right corner of the page and the following will be displayed:

The screenshot shows the phpMyAdmin interface with the following details:

- Left sidebar:** A tree view of databases, including "New", "blog_samples", "bugtracker", "college", "crud_bootstrap", "eloquent_crud", "ewa_test", "ewp", "information_schema", "learningwordpress", "mydbpdo", "myproduct", "mysql", "oauth_users", "paradisechaser", "performance_schema", "phpmyadmin", "tds_db", "testdb", "website1", "website2", and "wizard".
- Top navigation bar:** Databases, SQL, Status, User accounts, Export, Import, Settings, Replication, Variables, More.
- Main area:** A dropdown menu is open, showing "utf8mb4_unicode_ci".
- Database server panel:** Shows the following information:
 - Server: 127.0.0.1 via TCP/IP
 - Server type: MariaDB
 - Server version: 10.1.29-MariaDB - mariadb.org binary distribution
 - Protocol version: 10
 - User: root@localhost
 - Server charset: UTF-8 Unicode (utf8)
- Web server panel:** Shows the following information:
 - Apache/2.4.29 (Win32) OpenSSL/1.1.0g PHP/7.2.0
 - Database client version: libmysql - mysqlnd 5.0.12-dev - 20150407 - \$Id: b396954eeb2d1d9ed7902b8bae237b287f21ad9e \$
 - PHP extension: mysqli curl mbstring
 - PHP version: 7.2.0
- phpMyAdmin panel:** Shows the following links:
 - Version information: 4.7.4, latest stable version: 4.8.5
 - Documentation
 - Official Homepage
 - Contribute
 - Get support

To create your database, click on **New** and type in “**paradisechaser**” as the database name, then go to **Import** and choose the file [paradisechaser.sql](#)

After having successfully setup your database, go to **C:\xampp\htdocs** on your computer and copy the **OnlineTravelTours** folder there.

You have completed the configuration for your web application. It is now time to access the web application through any web browser.

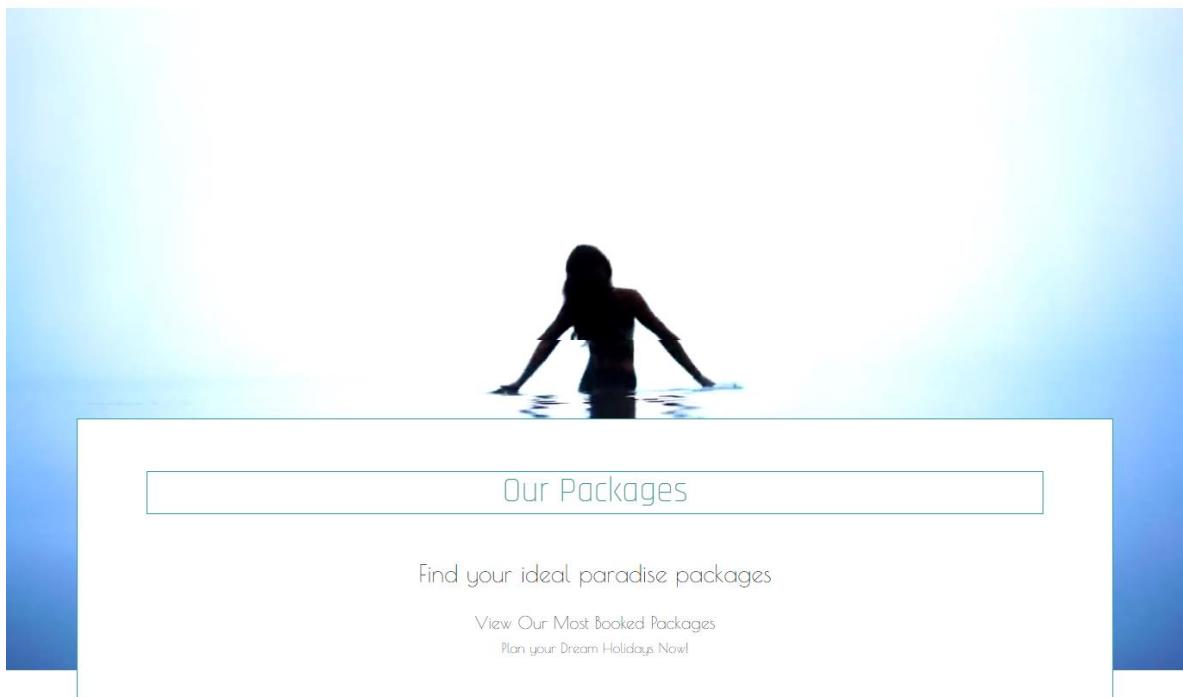
To access paradisechaser, type in <http://localhost:YOURPORTNUMBER/OnlineTravelTours/>

Paradise Chaser homepage will be displayed:

ParadiseChaser 

+230-123-4560 Floreal Mauritius
paradiseChaser@gmail.com Register
Login

 Packages Hotels Car Rental About us



Our Packages

Find your ideal paradise packages

View Our Most Booked Packages
Plan your Dream Holidays Now!

Gallery



[f](#) [o](#) [t](#)

© Copyright 2019 Paradise Chaser

Customer Section

Steps: For new members

- 1) Register
 - a. Click on the registration link found on the navigation menu and the following will appear:

Sign up to Paradise Chaser

You online booking travel agency. Book your favorite packages

First Name *

Last Name *

Gender *

Male Female

Address *

Phone Number *

Country *

Email address *

Password *

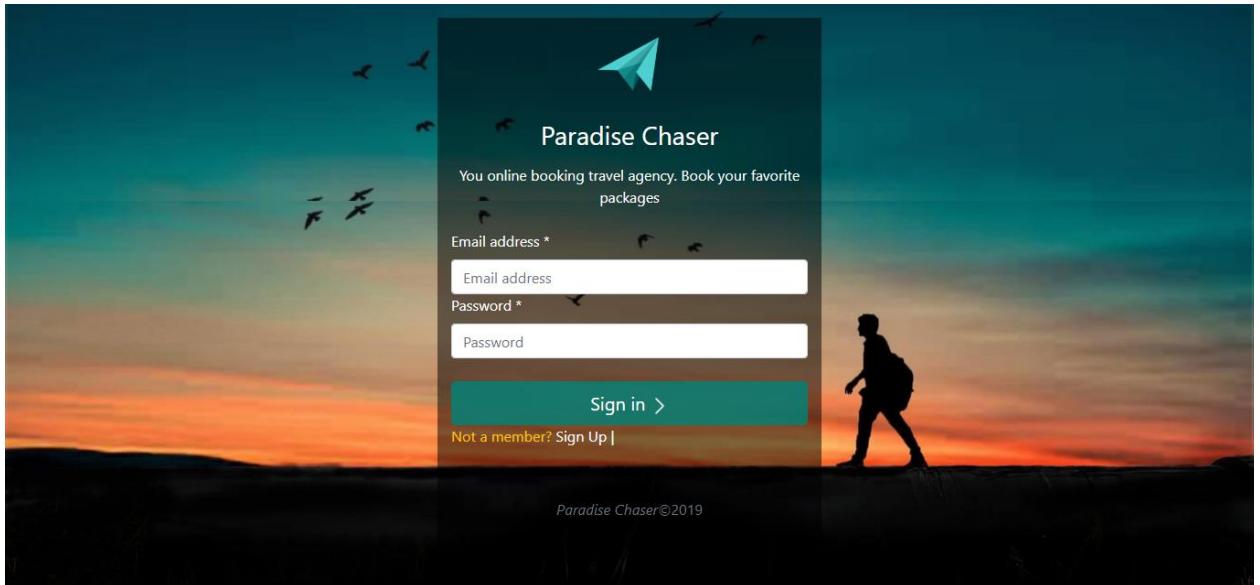
Confirm Password *

Sign up >

Paradise Chaser©2019

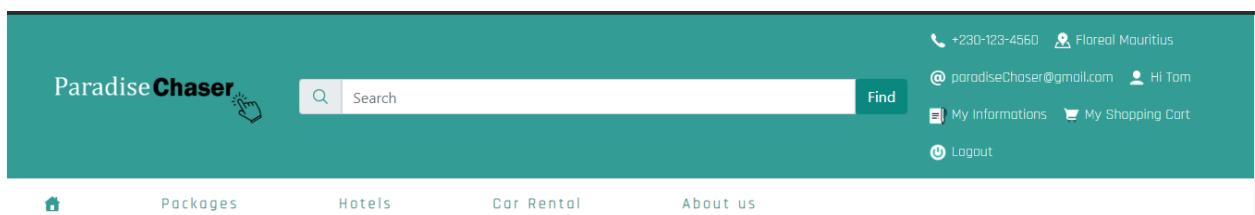
Kindly fill in the form with appropriate values.

After successful registration, the customer will be redirected to login page as shown below:



After login with valid credentials, the user will be redirected to homepage with his/her own account.

The header is changed to customer requirement including a shopping cart, a profile info and a logout button



User can booked either a package typically divided in 3 parts that is a day package at a hotel, make car rental, or book a travel package to another country.

ParadiseChaser 

Search Find

+230-123-4560 Floreal Mauritius
@ paradiseChaser@gmail.com Hi Tom
[My Informations](#) [My Shopping Cart](#)
[Logout](#)

 [Packages](#) [Hotels](#) [Car Rental](#) [About us](#)

Packages



Discount 20 % off
Price: **Rs.1200**



Discount 30 % off
Price: **Rs.5000**



Discount 30 % off
Price: **Rs.115**



Discount 30 % off
Price: **Rs.20000**



Discount 30 % off
Price: **Rs.3434540**

[!\[\]\(561f9556bee429aec38f2f5a0acd6f3d_img.jpg\)](#) [!\[\]\(987129ef46ecfb4e5a6c8c373d5f8bfa_img.jpg\)](#) [!\[\]\(2a3abca6d2ad30d8e487ed2b2df5d92c_img.jpg\)](#)

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Booking example:

If a particular user wants to book a particular item from paradise chaser, the latter click on the item he/she want and the following appears depending on the package type:

The screenshot shows a web browser displaying the Paradise Chaser website. The header includes the logo "ParadiseChaser" with a hand cursor icon, a search bar with a magnifying glass icon and the word "Search", a "Find" button, and user account information: "+230-123-4560", "Floreal Mouritus", "Hi Tom", "My Informations", "My Shopping Cart", and a "Logout" button.

The main navigation menu at the top has links for "Packages", "Hotels", "Car Rental", and "About us". Below the menu, the page title is "Packages" with a globe icon.

A prominent green callout box on the left side of the page contains the text "Special Day package at Inn At Woodhaven May Offer" and "Price: Rs.1200". Below this, there is a yellow button labeled "Discount 20% off". A "Select Date.." input field is present.

Section labels include "Room Type" (with options: Standard, Deluxe, Family), "Occupancy" (with options: 1 Adult, 2 Adults, 3 Adults, 2 Adults + 1 Child (0-2), 2 Adults + 1 Child (3-11)), "Meal Type" (with options: Half-Board, Full-Board, All-Inclusive), and "Total:" (displayed as "Rs. 0").

A large image of a tropical resort with palm trees and a swimming pool is displayed on the right side of the page.

Below the image, the section "Purchase Include" lists the following details:

Duration: 7 Hours Includes: Day Use Room Spa Discount: 20% on all spa treatment Free access to swimming pool Food & Beverages: 3-Course Lunch Tea Time: 15:00 Drinks that are not included in this offer are payable directly at the Hotel Arrival / Departure: Arrival Time: 10:00 Departure Time: 17:00 Location: Pereybere Conditions: Reservation: Must be done and confirmed 48 Hours in advance of arrival Room Maximum occupancy: 2 Adults Price is per Day Use Room policies of hotel must be followed, if not, hotel has right to ask you to leave, no refund will be given Complaints: If customer is to file a complaint, it is valid if filed with merchant prior to Check-out Mauritian ID card or Resident permit must be shown by all guests upon check-in at the hotel Failure to do so will entitle the Hotel to ch

The section "Package Details" lists the following details:

Food & Beverages: 3-Course Lunch Tea Time: 15:00 Drinks that are not included in this offer are payable directly at the Hotel Free activities Land: Social game, darts, carome Water: Swimming Pool Free secured parking

At the bottom of the page, there are social media icons for Facebook, Instagram, and Twitter, and a copyright notice: "© Copyright 2019 Paradise Chaser".

After successful booking, the item is added to the user shopping cart and upon checkout the customer is asked to select among 2 payment options as shown below:

ParadiseChaser 

Search Find

+230-123-4560 Floreal Mauritius
 @ paradiseChaser@gmail.com Hi Tarik
[My Informations](#) [My Shopping Cart](#)
[Logout](#)

 [Packages](#) [Hotels](#) [Car Rental](#) [About us](#)

Choose your payment option ▾

>>> Internet Banking <<<

>>> Pay at Showroom <<<




 © Copyright 2019 Paradise Chaser

Internet banking option

ParadiseChaser 

Search Find

+230-123-4560 Floreal Mauritius
 @ paradiseChaser@gmail.com Hi Tarik
[My Informations](#) [My Shopping Cart](#)
[Logout](#)

 [Packages](#) [Hotels](#) [Car Rental](#) [About us](#)

ParadiseChaser 

Payment by Internet Banking

Pre-Order Booking
 Order No. #000PC123456
 Dear Tarik,

Thank you for your Booking Request from ParadiseChaser.

Below is your booking informations

Item	Description	Check In	Check Out	Total Price
HOTEL INDIGO SCOTTSDALE	Room Type: Standard, Occupancy: 2 Adults, Meal Type: Half-Board	20.05.2019	22.05.2019	Rs. 5800.00
HOTEL INDIGO SCOTTSDALE	Room Type: Standard, Occupancy: 1 Adult, Meal Type: Half-Board	20.05.2019	22.05.2019	Rs. 2900.00

In order to receive your Booking Confirmation please finalize 100% of payment to ParadiseChaser Ltd. within 24 hours of placing the order.

Please note that this particular offer can sell out at any time, and if you do remain interested, we would request you to finalize your payment sooner rather than later.

VERY IMPORTANT: Please include the 'Order Number' as a reference when finalizing payment.

Option 1:
 Bank: Mauritius Commercial Bank (MCB)
 Account name: Paradise Chaser Ltd.
 Account number: 000123456789

Option 2:
 Bank: State Bank of Mauritius (SBM)
 Account name: Paradise Chaser Ltd.
 Account number: 98765432100082

Upon receipt of payment, you will automatically receive the Booking Confirmation to your email.

**** PLEASE NOTE THIS IS NOT A BOOKING CONFIRMATION AND PAYMENT IS STILL PENDING ****


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Payment at showroom option

The screenshot shows the ParadiseChaser website interface. At the top, there is a teal header bar with the logo "ParadiseChaser" on the left, a search bar with a magnifying glass icon and the word "Search", a "Find" button, and user account information on the right. Below the header, there are navigation links for "Packages", "Hotels", "Car Rental", and "About us". The main content area has a teal header with the "ParadiseChaser" logo. The page title is "Payment at Showroom". A section titled "Pre-Order Booking" contains two buttons: "Download PDF" and "Download a PDF Version of page", with a red arrow pointing from the first button to the second. Below this, a table displays booking information for two hotel stays. A message of thanks follows, along with instructions for payment and a note about booking confirmation. Social media icons for Facebook, Instagram, and Twitter are at the bottom, along with a copyright notice.

ParadiseChaser

Search

Find

+230-123-4560 Floreal Mauritius

paradiseChaser@gmail.com Hi Tarik

My Informations My Shopping Cart

Logout

Packages Hotels Car Rental About us

ParadiseChaser

Payment at Showroom

Pre-Order Booking

Download PDF

Download a PDF Version of page

Below is your booking informations

Item	Description	Check In	Check Out	Total Price
HOTEL INDIGO SCOTTSDALE	Room Type: Standard, Occupancy: 2 Adults, Meal Type: Half-Board	20.05.2019	22.05.2019	Rs. 5800.00
HOTEL INDIGO SCOTTSDALE	Room Type: Standard, Occupancy: 1 Adult, Meal Type: Half-Board	20.05.2019	22.05.2019	Rs. 2900.00

Thank you for your Booking Request from ParadiseChaser.

In order to receive your Booking Confirmation please finalize 100% of payment to one of our ParadiseChaser Ltd branch. within 24 hours of placing the order.

Please note that this particular offer can sell out at any time, and if you do remain interested, we would request you to finalize your payment sooner rather than later.

We accept payment by cash and card only.
* Cheques are not considered.

VERY IMPORTANT: Please provide the 'Order Number' as a reference when finalizing payment in one of our office.

Upon receipt of payment, you will receive the a printout of your Booking Confirmation .

**** PLEASE NOTE THIS IS NOT A BOOKING CONFIRMATION AND PAYMENT IS STILL PENDING ****

f o t

© Copyright 2019 Paradise Chaser

After successful payment, the customer order is stored in his/her purchase history section.

Admin Section

Admin has the following credentials to login to the admin dashboard:

Email: paradisechaser2019@gmail.com

Password: Pa\$\$w0rd!

Below is a list of features that an admin can manage on the website:

1. User

Admin has the ability to block and unblock a customer.

The screenshot shows the Paradise Chaser Admin Dashboard. The top navigation bar includes links for Dashboard, User (selected), Package, Car Rental, Hotel, Discount, Pick up point, Car Rental Company, and Settings. The Settings menu is expanded, showing options like Create New Day, Create New Gallery, Create New Occupancy, Create New Room Type, Create New Meal Type, and Create New Airline. The main content area is titled "List of Customers" and displays a table of customer details. The table columns are: First Name, Last Name, Email, Address, Gender, Country, Phone Number, Status, and Action. There are four entries in the table:

First Name	Last Name	Email	Address	Gender	Country	Phone Number	Status	Action
Justine	Cummings	siramavyfo@mailinator.com	Sunt qui consectetur amet dele	Female	Mauritius	11111111	Active Customer	<button>Block</button>
Mercedes	Simpson	nysymeb@mailinator.com	Sunt qui consectetur amet dele	Female	Mauritius	51234567	Inactive Customer	<button>Blocked</button>
Tarik	Nunez	zazu@mailinator.com	Recusandae Qui minima irure ut rerum voluptatem aut nulla laborum	Male	Mauritius	11111111	Active Customer	<button>Block</button>
Tom	Nasha	cypiza@mailinator.com	Sunt qui consectetur amet dele	Female	Mauritius	12345	Active Customer	<button>Block</button>

At the bottom of the page, there are social media sharing icons (Facebook, Instagram, Twitter) and a copyright notice: © Copyright 2019 Paradise Chaser.

2. Admin has the ability to add, update, remove a package, hotel or a car rental

ParadiseChaser
Hi admin Log out

[Dashboard](#)
[User](#)
[Package](#)
[Car Rental](#)
[Hotel](#)
[Discount](#)
[Pick up point](#)
[Car Rental Company](#)
[Settings](#)

>> Create new Package <<

Package Type

Travel

Purchase Include *

Package Details *

Travel Section

Departing From SSR Airport

Travel Airlines

Select Airline...

Country *

Select Country

Terms and Conditions *

The following appear if admin selects travel

Create

Package Title *

Price per day *

Rs.

Date of Availability *

Date From *

Select Date From..

Date To *

Select Date To..

Discount (%)

Select Discount

Upload Cover Image *

Choose File No file chosen

Upload Images *

Choose Files No file chosen

Remove all

Available date for package.

© Copyright 2019 Paradise Chaser

[Dashboard](#)[User](#)[Package](#)[Car Rental](#)[Hotel](#)[Discount](#)[Pick up point](#)[Car Rental Company](#)[Settings](#)

>> List of Packages <<

Show 10 entries

Search:

Package type	Package Title	Price	Date From	Date To	Purchase Include	Package Details	Discount Percent (%)	Action
Car Rent	Ford Raptor Three days Booking only	5000	06/05/2019	31/05/2019	description	description	30	 
Hotel	Special Day package at Inn At Woodhaven May Offer	1200	06/05/2019	31/05/2019	Duration: 7 Hours Includes: Day Use Room Spa Discount: 20% on all spa treatment Free access to swimming pool Food & Beverages: 3-Course Lunch Tea Time: 15:00 Drinks that are not included in this offer are payable directly at the Hotel Arrival / Departure: Arrival Time: 10:00 Departure Time: 17:00 Location: Pereybere Conditions: Reservation: Must be done and confirmed 48 Hours in advance of arrival Room Maximum occupancy: 2 Adults Price is per Day Use Room policies of hotel must be followed, if not, hotel has right to ask you to leave, no refund will be given Complaints: If customer is to file a complaint, it is valid if filed with merchant prior to Check-out Mauritian ID card or Resident permit must be shown by all guests upon check-in at the hotel Failure to do so will entitle the Hotel to ch	Food & Beverages: 3-Course Lunch Tea Time: 15:00 Drinks that are not included in this offer are payable directly at the Hotel Free activities Land: Social game, darts, carome Water: Swimming Pool Free secured parking	20	 
Travel	Numquam lorem archit	115	01/06/2019	10/10/2019	Consequatur commodo	Ut dolor eaque id ut	30	 
Travel	Special Offer Amsterdam	20000	12/05/2019	17/09/2019	tergdfgfbdd	bdfgfdgfd	30	 
Travel	dfgfdfgfd	3434540	13/05/2019	08/06/2019	dfgfdfg	gdfgdf	30	 

Showing 1 to 5 of 5 entries

[Previous](#) | [1](#) | [Next](#)

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Admin also has the ability to change other settings for example pickup point

The screenshot shows the Paradise Chaser admin dashboard. The top navigation bar includes links for Dashboard, User, Package, Car Rental, Hotel, Discount, Pickup point (which is highlighted), Car Rental Company, and Settings. On the right, there are 'Hi admin' and 'Log out' links. The main content area is titled '>> Create new Pickup Point <<' and features a search bar with 'Show 10 entries' and a 'Search:' field. Below this is a table with three entries:

Discount Percent	Action
Curepipe	
Rose Hill	
Vacoas Phoenix	

At the bottom, it says 'Showing 1 to 3 of 3 entries' and has 'Previous', '1', and 'Next' buttons. Social sharing icons for Facebook, Instagram, and Twitter are at the bottom left, and a copyright notice '© Copyright 2019 Paradise Chaser' is at the bottom center.

12.2 Annex

Annex A	Student diary
Annex B	Student Diary Summary
Annex C	Project/ Dissertation Submission Form
Annex D	Certificate of Originality