Rajiv Gandhi University of Knowledge Technologies(RGUKT), R.K.Valley, Kadapa, Andhra Pradesh

Project Report

Tours and Travel

September 2022

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CERTIFICATE

This is to certify that the project work titled "**Tours and Travel**" is a bonafied project work submitted by MS **T.Hema Sree and P.Sandhya** ID: **R170549 and R170411** in the department of **COMPUTER SCIENCE AND ENGINEERING** in partial fulfillment of requirements for the award of degree of Bachelor of Technology in Computer Science and Engineering for the year **2021-2022** carried out the work under the supervision

GUIDE

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ACKNOWLEDGMENT

The satisfaction that accompanies the successful completion of any task would be incomplete without the mention of the people who made it possible and whose constant guidance and encouragement crown all the efforts success.

I am extremely grateful to our respected Director,Prof. K. SANDHYA RANI for fostering an excellent academic climate in our institution.

At the very beginning, I would like to express my gratitude for being guided and supervised by K.Vinod Kumar sir. In fact, his continuous supervision and tracking allows me to work on a regular basis and so I could so far learn a lot about the fascinating world of Web Application Development and Software Engineering.

My sincere thanks to all the members who helped me directly and indirectly in the completion of project work. I express my profound gratitude to all our friends and family members for their encouragement.

Abstract

Here I have developed a project on Tours and Travels. Online Tour and Travel Booking is a system that gives you the facility of booking any type of packages (Summer special packages, Manali tour packages, Shimla special packages, adventures etc). This system is made, so that customer can easily book ticket for all packages of tourist place such as hills, trekking, adventures, spirituals and user can also register for hotels for different types of room.

The project 'Tours and Travels' is developed to replace the currently existing system, which helps in keeping records of the customer, details of destination as well as payment received. It saves the precious asset that is time, and also accuracy, reliability and uniformity can be maintained. This project is useful for the manager of the company as it helps them to search the data faster than existing system, to get customer record easily and report of the customer payment, etc are generated as per requirement.

Details of different types of tours which include tours like family tours, couple tours, general tours, date and time of departure and the fair of the tours etc are maintained. Through this site we can provide different types of travel packages to the customers. This sites provide everything related to it itineraries.

This site gives new packages on flexible price, so that user can book easily. According to season admin can change packages. We revise our itineraries regularly. Vacation-O-City offers a large range of travel opportunities. Tours and Travels Project is designed in html, css, javascript,programming language, and SQL server used for this site.

In this site, Admin can add packages, add destinations (adventures, spirituals), add hotels details, and delete hotel details. Admin can also add different types of room etc..

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Introduction:

Travel and Tourism management system: This is an online project developed using Php and MySQL. The purpose of this project is to provide the complete information about the vehicles available for a tour. Then the agency will take down all the details of the customer and will send a confirmation message to the customer. On the day of the tour, the customer first must show the confirmation message to the driver for clarity and only then he will agree to drive after looking at the confirmation message. This software is user friendly and helps in finding the vehicle sooner rather than wandering manually everywhere to find for vehicles.

Before the tour starts, half payment has to be done. After the customer returns or reaches his final destination, he must pay full amount either through cash or through cards. After the travelling the customer can come back to the site and enter his feedback about the travel and tourism agency. If any good feedback will be taken positively and if any negative feedback too will be taken positively and try to improve what had lacked. The report is also generated periodically and the database will be cleared according to the time span for fast performance.

This project development a website for Tour & Travel management system with HTML-5,CSS 3,PHP as front-end & MYSQL as back-end. Tour & Travel management system planning the tour for their customer. It is an application which decreases few efforts of planning of trip or making of yours holidays happy. This system provides better services for booking tickets(train,air,etc…) & planning for visiting places & hotels facility & transportation mode.

I. Modules:

This application consists following modules:

Administrator module
Travels module
Routes module
Reservations module

1.5.1 Administrator module:

This module provides administrator related functionality. Administrator manages all information and has access rights to add, delete, edit and view the data related to places, travels, routes, bookings etc.

1.5.2 Travels module:

This module provides the details of various travel agencies. A user can select the appropriate agency depending on convenience and accessibility.

1.5.3 Routes module:

This module provides information related to various routes connecting sources and destinations. For each route, information such as source, destination, fare, reservation details, pick up points etc are provides. Only administrator can add , delete, edit and manage the data. Users can only view the information.

1.5.4 Reservations module:

This module provides functionalities that allow a user to book tickets or cancel previously booked tickets. The module maintains the details of all reservations made so far and allows administrator to either confirm or reject the bookings.

Purpose:

The main purpose of Tours and Travels management system to provide a platform where tourist can book their desired destination at home. With the help of this project we are bringing the use of technology in the field of Tourism,Where the tourist can easily book their desired destinations easily. We help them to know all the destination places available in our website. So they get easily book their destination.

Scope

Today also we have to go to the booking centers in travel agencies, wait in the queue to get our Tickets. As Technology is growing rapidly we are also moving to a technical world
where everything we want to be online. So with the help of this project we are bringing the use
of technology in the field of Travel Agencies where Tourist can have all the facilities in this website. This project makes the process easy and reduces the burden of Tourists. This access friendly
 software provides quick and effective services which helps the Tourists.

Advantages:

Allows for faster service.
Easy, user friendly GUI.
Validation of data will be ensure only accurate valid and complete data stored in the database.
Easy retrieval or data will be made possible by finding techniques.
Easy for tourist for finding their destinations easily.

Disadvantages:

It reduces employment as the human efforts are being automated by this system.

Software Requirement:

Front end	*HTML,CSS ,java script*
Server side Language	*PHP*
Database Server	*MYSQL*
Web Browser	*Firefox , Google Chrome or any compatible browser*
Operating System	*Ubuntu,Windows or any equivalent OS*

APACHE:

The Apache HTTP Server Project is an effort to develop and maintain an open-source HTTP server for modern operating systems including UNIX and Windows. The goal of this project is to
provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards.
The Apache HTTP Server was launched in 1995 and it has been the most popular web server on the Internet since April 1996. It has celebrated its 20th birthday as a project in February 2015.

PHP:

- ● PHP stands for PHP: Hypertext Preprocessor.
- ➔ PHP is a server-side scripting language, like ASP.
- ➔ PHP scripts are executed on the server.
- ➔ PHP supports many databases (MYSQL, Informix, Oracle, Sybase, Solid, Generic ODBC, etc.).
- ➔ PHP is an open source software.
- ➔ PHP is free to download and usePHP Main Features of MySQL

- ➔ The MySQL Server design is multi-layered with independent modules.

- ➔ Fully multi-threaded using kernel threads. It can easily use multiple CPUs if they are available.

- ➔ Provides transactional and non-transactional storage engines.

- ➔ Uses very fast B-tree disk tables with index compression.

- ➔ Relatively easy to add other storage engines. This is useful if you want to provide an SQL interface for an in-house database.

- ➔ A very fast thread-based memory allocation system.

MYSQL:

A.   MYSQL is a database server
B.   MYSQL is ideal for both small and large applications
C.   MYSQL compiles on a number of platforms
D.   MYSQL supports standard SQL
E.   MYSQL is free to download and use

Reasons to Use MySQL

a) Scalability and Flexibility

The MySQL database server provides the ultimate in scalability, sporting the capacity to handle deeply embedded applications with a footprint of only 1MB to running massive data warehouses holding terabytes of information. Platform flexibility is a stalwart feature of MySQL with all flavors of Linux, UNIX, and Windows being supported.

b) High Performance

A unique storage-engine architecture allows database professionals to configure the MySQL database server specifically for particular applications, with the end result being amazing performance results. **C) High Availability**

Rock-solid reliability and constant availability are hallmarks of MySQL, with customers relying on MySQL to guarantee around-the-clock uptime. MySQL offers a variety of high-availability options from high-speed master/slave replication configurations, to specialized Cluster servers offering instant failover, to third party vendors offering unique high-availability solutions for the MySQL database server.

Analysis and Design

Analysis:

Today also we have to go to the Travel agency center, wait in the queue to get our Tickets. As Technology is growing rapidly we are also moving to a technical world where everything we want to be online. So with the help of this project we are bringing the use of technology in the field of Travel and Tourism where Tourists can avail all the facilities at our Website. This project makes the process easy and reduces the burden of Tourists.

Disadvantage of present system:

Not user friendly: The present system not user friendly because data is not stored in structure and proper format.

Manual Control: All report calculation is done manually so there is a chance of error.

 Lots of paper work: Visitors maintain in the register so lots of paper require storing details.

Time consuming

Design Introduction:

Design is the first step in the development phase for any techniques and principles for the purpose of defining a device, a process or system in sufficient detail to permit its physical realization. Once the software requirements have been analyzed and specified the software design involves three technical activities - design, coding, implementation and testing that are required to build and verify the software.

The design activities are of main importance in this phase, because in this activity, decisions ultimately affecting the success of the software implementation and its ease of maintenance are made. These decisions have the final bearing upon reliability and maintainability of the system.

Design is the only way to accurately translate the customer's requirements into finished software or a system. Design is the place where quality is fostered in development. Software design is a process through which requirements are translated into a representation of software. Software design is conducted in two steps. Preliminary design is concerned with the transformation of requirements into data.

UML Diagrams:

Actor:

A coherent set of roles that users of use cases play when interacting with the use cases.

Use case: A description of sequence of actions, including variants, that a system performs yields an observable result of value of an actor.

UML stands for Unified Modeling Language. UML is a language for specifying, visualizing and documenting the system. This is the step while developing any product after analysis. The goal from this is to produce a model of the entities involved in the project which later need to be built.The representation of the entities that are to be used in the product being developed need to be designed.

USECASE DIAGRAMS:

Use case diagrams model behavior within a system and helps the developers understand of what the user require. The stick man represents what's called an actor.
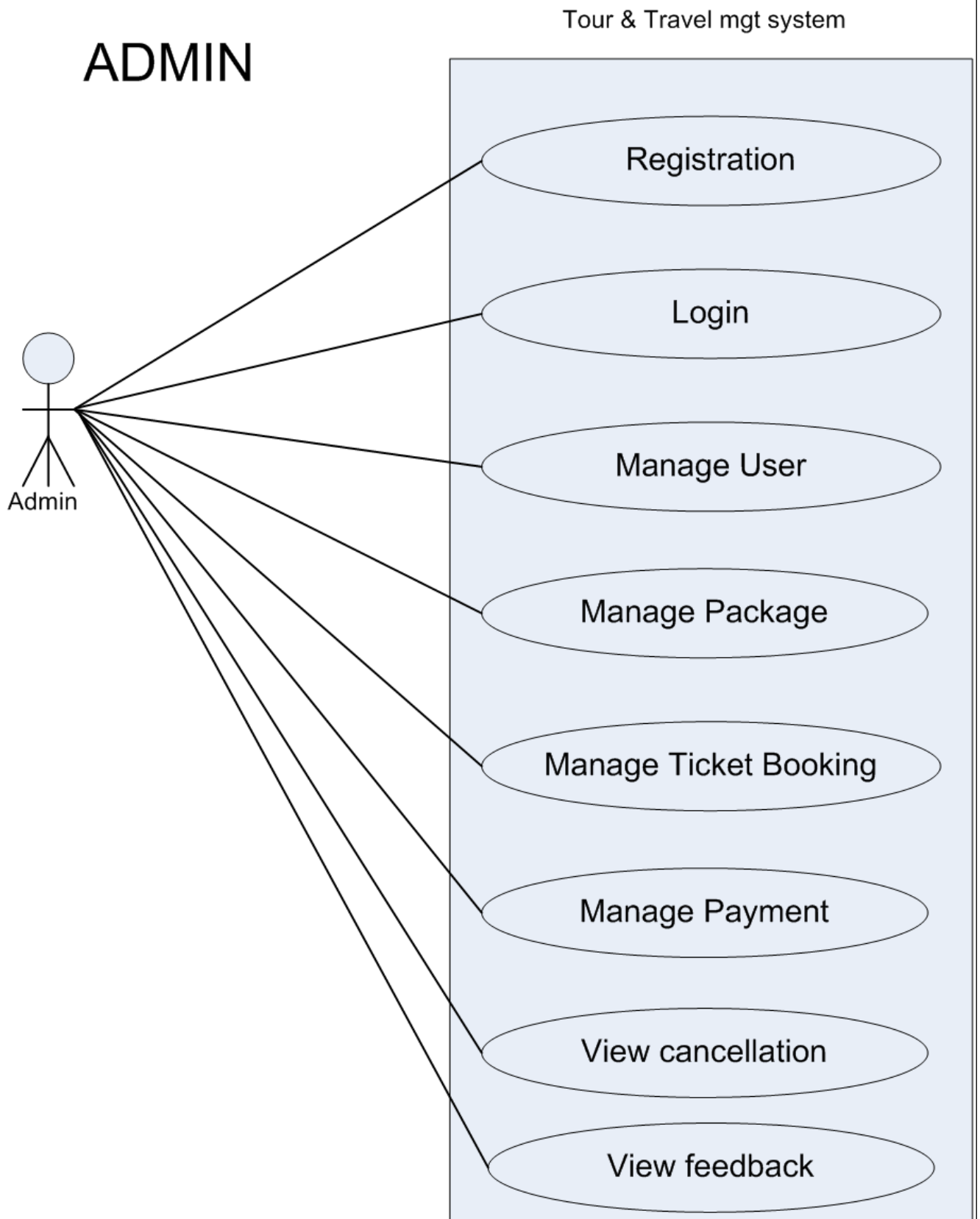Use case diagram can be useful for getting an overall view of the system and clarifying that can do and more importantly what they can't do.
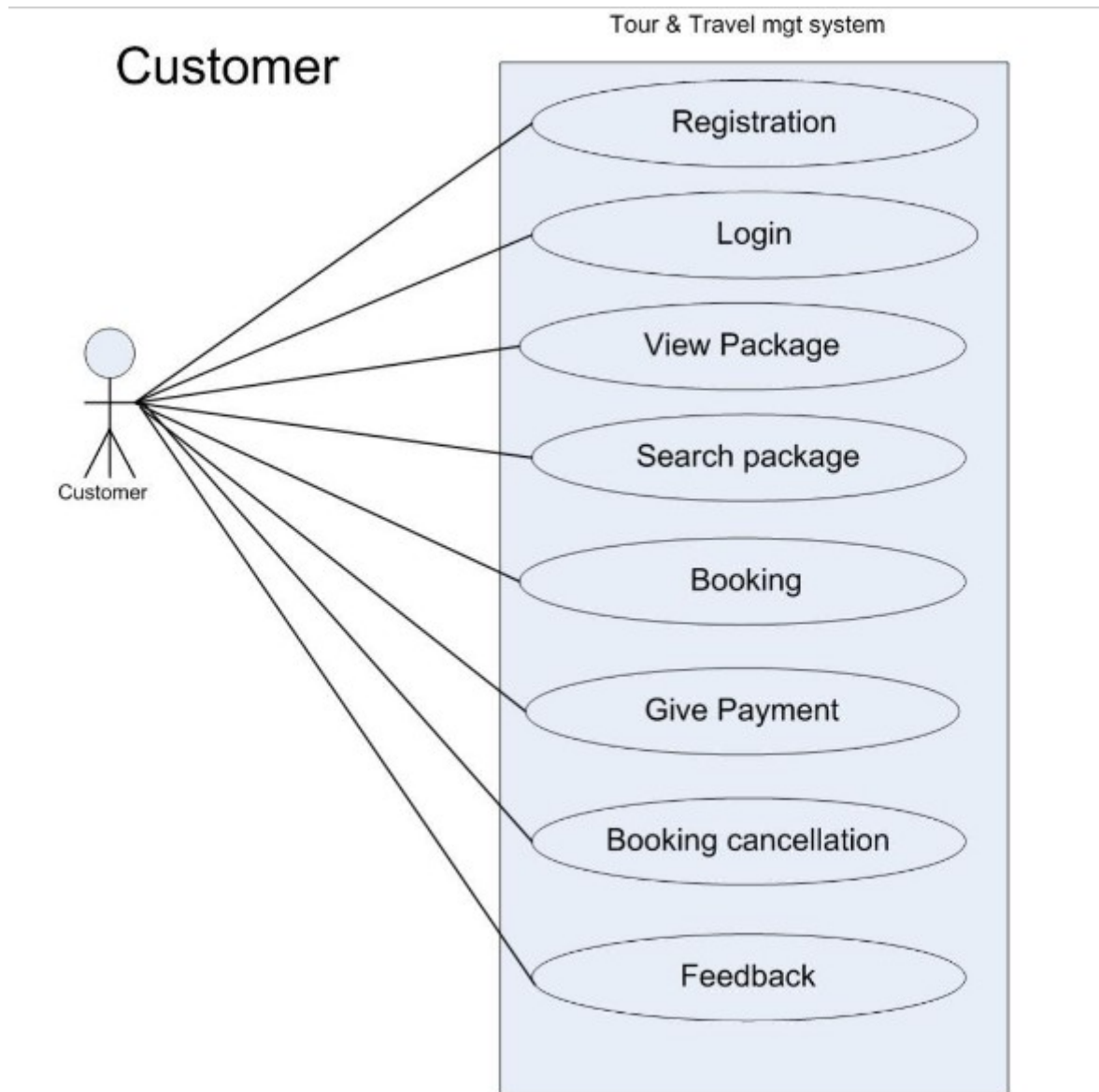Use case diagram consists of use cases and actors and shows the interaction between the use case and actors.

USECASE DIAGRAM:

A Use case is a description of set of sequence of actions. Graphically it is rendered as an ellipse with solid line including only its name. Use case diagram is a behavioral diagram that shows a set of use cases and actors and their relationship. It is an association between the use cases and actors. An actor represents a real-world object. Primary Actor – Sender, Secondary Actor Receiver.

Use Case Diagrams:

ADMIN

Tour & Travel mgt system

Admin

- Registration
- Login
- Manage User
- Manage Package
- Manage Ticket Booking
- Manage Payment
- View cancellation
- View feedback

ER Diagram:

The Entity-Relationship (ER) model was originally proposed by Peter in 1976 [Chen76] as a way to unify the network and relational database views. Simply stated the ER model is a conceptual data model that views the real world as entities and relationships. A basic component of the model is the Entity-Relationship diagram which is used to visually represent data objects. Since Chen wrote his paper the model has been extended and today it is commonly used for database Design for the database designer, the utility of the ER model is:

It maps well to the relational model. The constructs used in the ER model can easily be

transformed into relational tables. It is simple and easy to understand with a minimum of training. Therefore, the model can be used by the database designer to communicate the design to the end user. In addition, the model can be used as a design plan by the database developer to implement a data model in specific database management software.

ER Notation

There is no standard for representing data objects in ER diagrams. Each modeling methodology uses its own notation. The original notation used by Chen is widely used in academics texts and journals but rarely seen in either CASE tools or publications by non-academics. Today, there are a number of notations used; among the more common are Bachman, crow's foot, and IDEFIX.

All notational styles represent entities as rectangular boxes and relationships as lines connecting boxes.

Each style uses a special set of symbols to represent the cardinality of a connection. The notation used in this document is from Martin. The symbols used for the basic ER constructs are:

Entities are represented by labeled rectangles. The label is the name of the entity. Entity names should be singular nouns.

Relationships are represented by a solid line connecting two entities. The name of the relationship is written above the line. Relationship names should be verbs15

Attributes, when included, are listed inside the entity rectangle. Attributes which are identifiers are underlined. Attribute names should be singular nouns.

Cardinality of many is represented by a line ending in a crow's foot. If the crow's foot is omitted, the cardinality is one. Existence is represented by placing a circle or a perpendicular bar on the line. Mandatory existence is shown by the bar (looks like a 1) next to the entity for an instance is required.

Optional existence is shown by placing a circle next to the entity that is optional.

ER Diagram
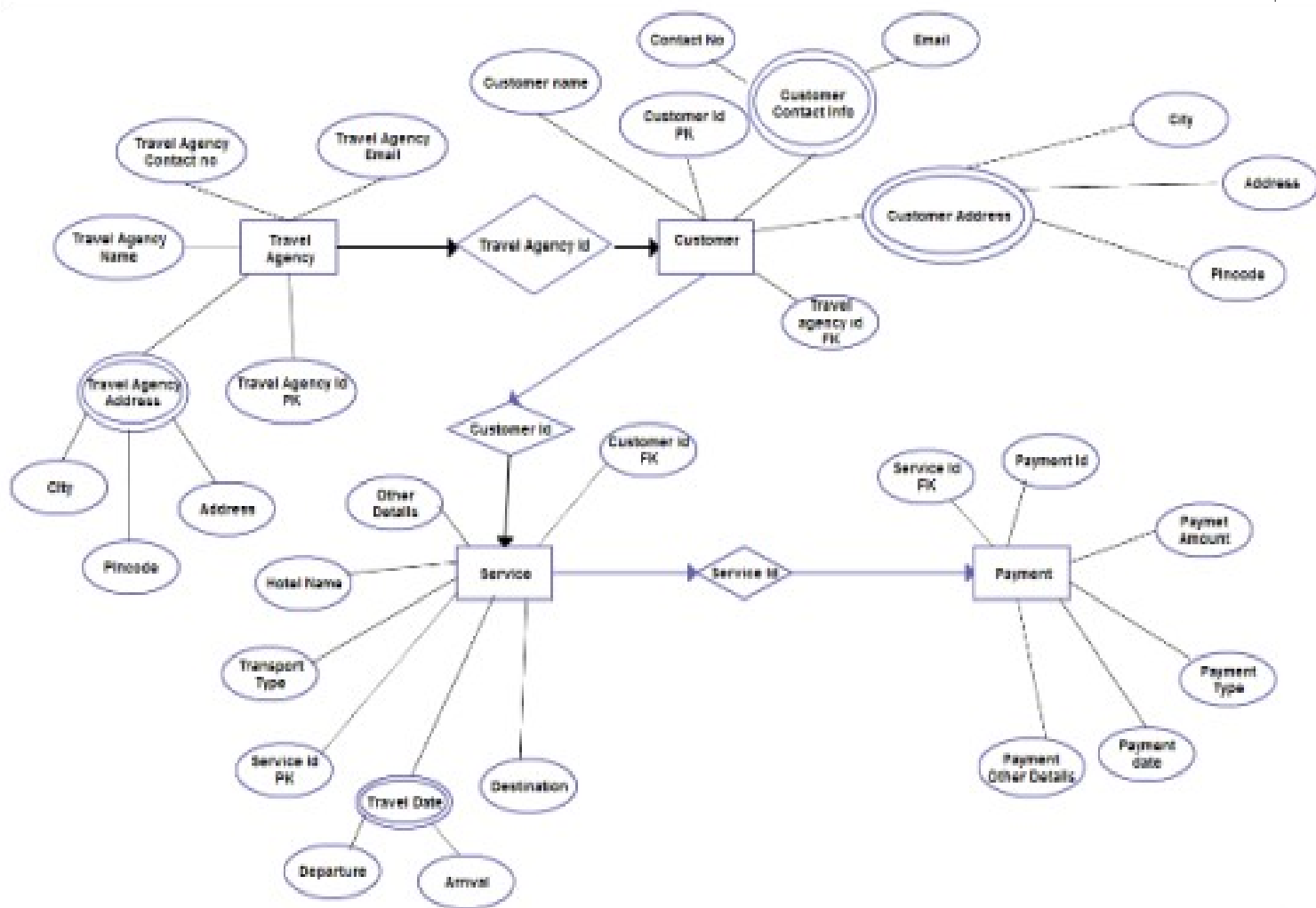
Implementation and System Testing

All phase have been perfectly done, the system will be implemented to the server and the system can be used.

System Testing

The goal of the system testing process was to determine all faults in our project .The program was subjected to a set of test inputs and many explanations were made and based on these explanations it will be decided whether the program behaves as expected or not. Our Project went through two levels of testing

1. Unit testing

2 .Integration testing

Unit Testing

Unit testing is commenced when a unit has been created and effectively reviewed .In order to test a single module we need to provide a complete environment i.e. besides the section we would require The procedures belonging to other units that the unit under test calls Non local data structures that module accesses .A procedure to call the functions of the unit under test with appropriate parameters

1. Test for the admin module

Testing admin login form-This form is used for log in of administrator of the system. In this

form we enter the username and password if both are correct administration page will open

otherwise if any of data is wrong it will get redirected back to the login page and again ask the

details.

Report Generation: admin can generate report from the main database.
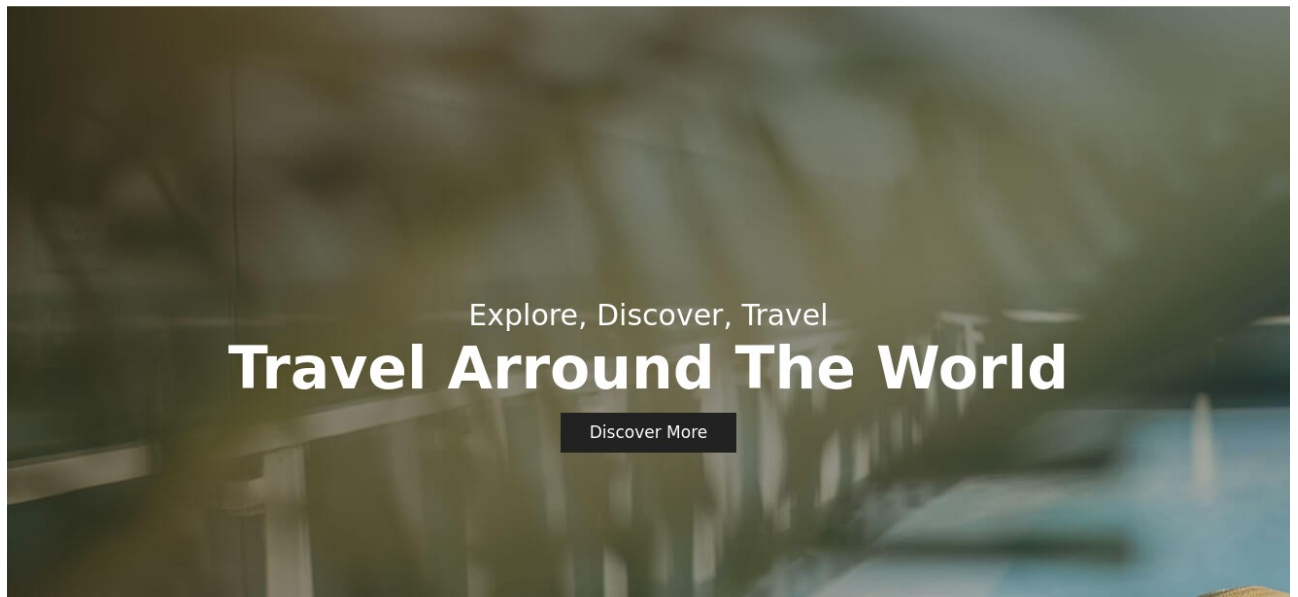
Integration Testing

In the Integration testing we test various combination of the project module by providing the

*i*nput.

The primary objective is to test the module interfaces in order to confirm that no errors are

occurring when one module invokes the other module.

EVALUATION

project url: http://localhost/travel/

Home Page:

Packages Page:

PACKAGES

TOP DESTINATIONS

Adventure & Tour

Lorem Ipsum Dolor Sit Amet
Consectetur Adipisicing Elit.
Perferendis, Perspiciatis!

Book Now

Adventure & Tour

Lorem Ipsum Dolor Sit Amet
Consectetur Adipisicing Elit.
Perferendis, Perspiciatis!

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place you want to visit	number of guests
Arrivals :	Leaving :
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II.   Future Work:

As a future work, I am planning to persist in developing more web apps and entering deeply the world of web development. Tours and Travels has helped me to gain a lot of development skills and enrich my background, as I spent the previous 4 months searching for every tiny detail that concerns the development of web application. Thankfully, I have built a good knowledge. Therefore, any upcoming project of web application development will = undoubtedly be within my reach.

III.   Conclusion:

The Tours and Travels application meets with the enterprise class application principles. It is designed to be performing, scalable , extensible, and highly available. It also ensures the privacy of the users' data and secures its access. Given that it may be improved in many ways, the application is also easily maintainable.

This documents summarizes the work that has been done since the beginning of this semester. Indeed, it starts by giving an overview about the project specification and requirements. The document also states the methodology followed and which consists of 5 main parts: The first part will be devoted to data gathering and software requirements specification. Consequently, I will have a look at different web apps which target the same goal. They are plenty of Travel booking apps. Each one has some various features. The second part will be dedicated to the design phase, including the app and the database. Also, in this phase, the software tools to be used will be specified. For example, the IDE, the database Server, the modelling language for the design, and finally the software testing tools. The third part will be the implementation phase, here, the design will be converted to code in order to develop the targeted app. The fourth step will be devoted to testing the app. In this phase, two testing methods will be used, namely: Unit testing and Integration testing. The last phase will be the deployment phase.

IV.   References:

- https://www.tutorialspoint.com/php-references – PHP
- https://dev.mysql.com/doc/refman/8.0/en/ - mysql
- https://developer.mozilla.org/en-US/docs/Web/HTML