**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

Jnana Sangama, Belgaum-590014.



**WEB TECHNOLOGY MINI PROJECT SYNOPSIS**

**ON**

**" BOAT RESERVATION SYSTEM"**

**Submitted in partial fulfilment of the requirement for the award of the Degree of**

**BACHELOR OF ENGINEERING**

**IN**

**COMPUTER SCIENCE & ENGINEERING**

**Submitted by:**

**Name USN**

**ROSHINI P 1KN17CS070**

**MERCY RABECAL P 1KN17CS052**

**NAKUM MAMATHA M 1KN17CS059**

**Under the guidance of Under the guidance of**

**Mr.Mohammed Ziaulla Mr.Mohammed Zabiulla**

**Asst.Professor, Dept of CSE, Asst.Professor, Dept of CSE**

**KNSIT,Bangalore-64 KNSIT,Bangalore-64**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**K.N.S. INSTITUTE OF TECHNOLOGY**

**Bangalore – 560 064**

**2019-2020**

**INTRODUCTION**

ABSTRACT:

Boat reservation system is a web-based reservation application. It connects passengers and service provider in an online community allowing users to browse different boats and ask user to select the source and destination to travel timings date , and book or cancel appointments. Service provider can add new boats and images of the boat and capacity of boat how much passengers can travel and fares.They can also view the reservations done and view the boats available and they can search for passengers and boats.

My project will use MySQL and PHP to back the interface with strong database functionality. For appointment scheduling, This Project will integrate Web Calendar as a backend database for appointments as well as a front-end scheduling interface. Web Calendar is a PHP-based calendaring application that can be a stand-alone program or integrated into other applications. This project will target the major web browsers as the initial platform for the Beta version.

The final deliverable will be a functioning web application that can handle all specified use cases. Some of the major use cases include user account registration, login/logout, reservation scheduling, schedule viewing, adding boats and images.

This system is designed to provide the facility where the customer can easily reserve boats online. The user just has to register on this web portal, then the user can easily reserve boats according to their needs. While reserving boats, the user has to enter their destination point, date, and departure time. The user can also view their reservations. From Admin’s login, admin can add, view, edit, delete boats and view all user’s boat reservation. This system makes easier to the user for reserving boats online.

**OBJECTIVE:**

The main objective of the application is to automate the existing method of manual booking ticket to computerized ticket booking system. The other main objective of this system is to manage all day to day activities the boat operator.

Business Objectives and Success Criteria

The main business objectives are this product will provide a tracking and inventory system for Magnificent Marketing. This product will be reliable, secure and scalable for future growth and business needs.

Success of this product will be measured by the:

- Ease of use for employees using the system

- Time spent reserving equipment

- Ease of updating database After minimal training, employees should be able to use the system efficiently and effectively.

The system will become a longtime investment for Magnificent Marketing reducing the wasted time it took with the paper tracking system, repetitive tasks which added up in the long run especially when the employee finds out the equipment was not available:

o Clerks time looking for equipment o Employees time filling multiple forms

o Employees time going back and forth to the inventory room

**SCOPE OF THE PROJECT**

Current scope of the beauty parlour project is to beauty parlour management system project in java check the state of the beauty parlour services and drivers, state of the beauty parlour processes, state of drivers the skin care, cosmetic treatments and hair salon application doesn’t provide any method to work with these aspects of the beauty parlour management.

**PURPOSE OF THE BEAUTY PARLOUR PROJECT**

* Provide a Single environment from where an administrator can interact with the beauty shop system resources within the beauty centre network.
* Provides Info regarding the beauty parlour no of services running on the beauty centre system.
* To provide an upgrade support for the beauty shop system resources.
* Provides interface to interact with the beauty shop system parameters like network settings, OS Settings, Services, and Process etc.
* Provides means of reporting the beauty parlour system setting to a person through email. There by an administrator can know the status of the systems throughout the network.

**PROBLEMS IN THE BEAUTY CENTRE EXISTING SYSTEM**

* The current system is provided by Microsoft Corporation, but requires a person to know the methodology to interact with the beauty shop system configuration.
* Not a single interface to monitor all the free download project report events. Don’t notify to the Spa salon user in case any event generated errors.
* System resources cannot be freed frequently based on the beauty centre parameters.
* Administrator is not notified regarding any failure by the skin health system.
* The current system doesn’t allow the remote access of the beauty parlour resources of one system with other·
* Three different Categories are provided to know the current status of the beauty parlour services, drivers etc.

Currently, the type of system being used at the counter is an internal system which

is manually used in selling the bus tickets. The problems facing the company are

that customers have to go to the counter to buy bus ticket or ask for bus schedule,

customers will also have to queue up for a long time in order to secure a bus ticket

and will also need to pay cash when they buy the bus ticket.

**HARDWARE & SOFTWARE SPECIFICATIONS**

* **Software Requirement Specifications**

Operating System : Windows 10

Front End : JSP (Java Server Pages)

Back End : Oracle 11g

Server : XAMPP server

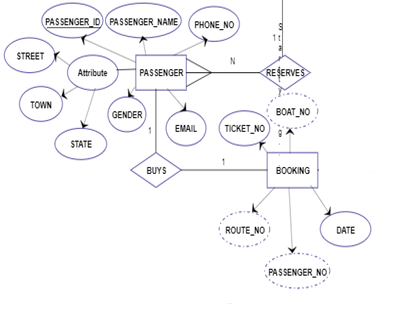
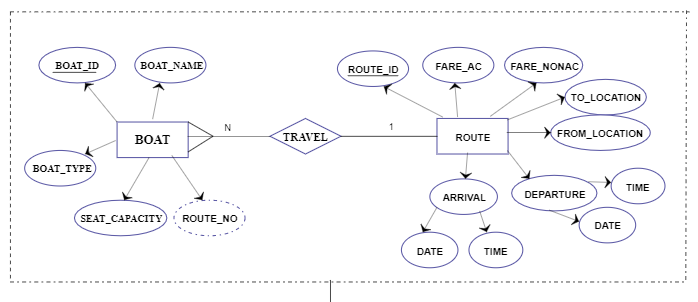
Documentation : Microsoft Office 2010

* **Hardware Requirement Specifications**

|  |  |
| --- | --- |
| Computer Processor | Core i3 |
| Processor Speed | 2.3 GHz Processor |
| Hard Disk | 20 GB or more |
| RAM | Min 2GB |

**ENTITY RELATIONSHIP DIAGRAM**

An entity relationship diagram (ERD) shows the relationships of entity sets stored in a database. An entity in this context is a component of data. In other words, ER diagrams illustrate the logical structure of databases.



**BIBLIOGRAPHY&REFERENCES**

**REFERENCES USED:**

* Google for solving the problem.
* Head first Java 2nd edition.
* Java and Software Design Concepts by Apress.
* Database Programming with JDBC,CSS.
* <http://www.jsquery.com/javascripts>
* <http://www.xampp.com/server>
* <http://google.com>.
* <http://w3schools.com>.
* http://www.carrentingsolutions.com/
* http://www.flashvortex.com/
* http://www.imscart.com/car\_rental\_software.html
* Wikipedia.org

## Safety[[edit](https://en.wikipedia.org/w/index.php?title=Boating&action=edit&section=5" \o "Edit section: Safety)]

Since it is a recreational activity, most boating is done in calm protected waters and during good weather. Even so, conditions can change rapidly, and a small vessel can get into life-threatening difficulties. It's important to keep an inventory of safety gear on board every boat, which is prescribed by the U.S. Coast Guard as well as state boating law administrators in the U.S. Depending on the size of the boat and how it is powered, required equipment may include:

* personal flotation devices (PFDs or life jackets) for everyone on board
* a throwable flotation device (in the U.S., a Type IV PFD)
* navigation lights suitable for the type of boat operation
* visual distress signals (VSDs) which are effective both day and night
* sound-making devices including horns and bells
* fire extinguisher(s)
* a copy of the Inland Rules of the Road

Other items might seem obvious but are not actually required by law. They include a flashlight, first aid kit, paddles, whistles, anchor and rope, engine spare parts, bilge pumps, a VHF radio or mobile phone, etc.

In addition to these safety items listed above, the Code of Federal Regulations lists some additional required items that may not fall into the common definition of "safety" items:

* backfire arresters on gasoline-powered vessels
* ventilation systems on gasoline-powered vessels
* plaques which list the penalties associated with pollution due to oil discharge, or dumping trash overboard.
* a marine sanitation system ([MSD](https://en.wikipedia.org/wiki/Marine_sanitation_device)) which prevents water pollution from sewage

State laws may add to this list of requirements. Most of the differences fall into a few categories:

* laws requiring life jackets to be worn in specific activities or by children
* upgraded life jackets for specific activities or by children
* restrictions on the types of MSDs that are allowed within state borders

In the United States, more than 40 states have educational requirements for operating a boat or PWC on state waters.[[5]](https://en.wikipedia.org/wiki/Boating#cite_note-5) Laws vary by state so it's best to check the laws of your state. Boater education courses can be taken in-person classroom style or online at the student's convenience. Credible courses are recognized by the US Coast Guard, approved by NASBLA and work in conjunction with state agencies.

**Aims of the Research The aims of this system are:**

* To provide a web-based buying bus ticket functions. Customer can buy bus ticket through the online system and no need to queue up to buy bus ticket in the counter.
* To provide anytime anyplace service for the customer.
* Customer can buy bus ticket 24 hours a day, 7 days a week over the Internet.
* To enable customer to check the availability of the bus ticket online. Customer can check the time departure and arrival for every bus through the system.
* To ease the bus ticket payment by online. Customer has to pay for the bus ticket by Credit/Debit Card. ⎫ To minimize the number of staff.

Advantages of IT-based bus ticketing and payment system

Quicker as the individual does not need to contact the airline, the bus company, and the hotel all separately

• Convenient as it can be done by anyone and anywhere with an internet connection

• Customers can compare bus, flight, hotel, and rental car rates

• Saves the time and trouble to find a suitable travel agent

• Cheaper fares/flying rates as some websites give lower rates for certain packages. Cheaper rates are also used to attract potential customers.

Reservation Management System

The automated system allows the traveler to use the OATRS to make reservations and enquiries. It performs the following functions;

• Receives processes and stores requested user enquiries or reservation request.

• Changes passengers’ reservations request and updates account

. • Generates online seat availability report. This subsystem virtually takes the manual reservation operation and enquiry processing of the existing system.

User Management Subsystem

The user here is a staff of the transport Company that would be allowed to use the system whose authorization properties would determine his/her type of access. This subsystem will allow for;

• Addition of new users

• Removal of users

• Changing users passwords

 These functions will be handled with the help of following sub functions:

∇ It reserves and cancels seats for the passenger.

∇ It contains information about the trains.

∇ It contains information about the passenger.

∇ It contains the details of reservation fees, any concessions etc.

∇ It makes entries for reservation, waiting, cancelled tickets.

∇ It will update for uptime and downtime trains.

VIII. CONCLUSION

In this paper we have presented a mobile ticket application developed for Android using Java, MySQL, and PHP on the server side which can change the way people buy their tickets in future. This kind of ticketing application can be applied to any kind of transport system. Our android app can book ticket for multiple transport system at single point. Also our app saves a huge work for our ticket checkers by providing QR code based validation and ticket checking application of ticket checker. Hence a huge problem of issuing tickets for multiple transport system has been solved with our new application.

Future Work

1. This system can further expand to use multiple transport system like best, boat, etc.

2. We can use internet banking to pay amount of ticket

### Scope of Online Bus Ticket Booking

* Online Bus Ticket Booking system will help [Traveling Agency](https://mcabcaprojects.com/116-online-tour-travel-services-project/) to organize bus schedules more efficiently on the basis of traffic on different route.
* All the booking and cancellation process can be automated with this application.
* Customer can view seat booking status graphically and select their desired seat in the bus.
* This application uses SQL server as database. Thus it provides super smooth performance and also protects data from any security threat.
* Customer can buy ticket 24×7 online by bus booking portal. There is no need to visit bus booking [office](https://mcabcaprojects.com/107-office-automation-system-vb-project/) manually.

Future Scope

• As mentioned above, although our system had been completed but it is not perfect, we had planned to make some enhancement in the future.

• We think that our system still has potential to grow. Besides, we will include more functions and introduce more widgets to the system. Like ▫ Mobile aps ▫ Mobile version ▫ Home Delivery ▫ Call Center Support We also plan to enhance the interface so that it looks more attractive and interactive.

## Scope of the system

This system offers help for customers to create airline reservations with World Plane, Inc.. Also, the system supports sorting flights by either price or time. In addition, the system is to support both one way and round trip flights, initially queryable by departure date. Lastly, when reserving the seat, the system will support selection of which class the seat belongs to and etc.

## Objectives and Success Criteria of the Project

The success of the application depends upon meeting the following core set of objectives:

The System will allow a customer to reserve a flight specified by: Flight Type (one-way or round-trip) Departure airport Arrival airport Seating class (consistent throughout all legs of the flight) Departure date The System will show customer a list of all results sorted according to price or travel time that customer entered in. The System will allow customer to review flight information before making a final reservation decision.