RAILWAY RESERVATION

A

PROJECT REPORT ON

RAILWAY RESERVATION

Prepared by: Thummar Dhara
Gadhiya Kinara

Developed by: Thummar Dhara & Gadhiya Kinara
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I am pleased to submit this report on the project developed at Shree M & N Virani Science College, Rajkot as a part of 5\textsuperscript{th} semester curriculums.

Once you login to the system, you can use all the facilities provided by this windows application. It reduces the complexity of user to use such system like forum. The user can also use other facilities of this site is search engine.

This project report contains overview of the project. The person with technical knowledge about web development can easily understand the contents of this project.

Whole implementation of this site is shown with figures, Data Flow Diagrams, Databases and screen shots. That’s why; it is very easy to understand for any person.
ACKNOWLEDGEMENT

As per the schedule of the course of B.C.A, The project work is must for each and every student in different government organization or private organization. During development period, the student has to develop software and implement it successfully.

We are the student of B.C.A (Shree M & N Virani Science College, Rajkot) is affiliated with Saurashtra University.

It is a matter of great pleasure for us to this opportunity expressing our sincere sense of gratitude to Mr. Pardip Vanpariya & Mr. Keyur zala for giving us precious guidance, inspiration and great support throughout the project development. We are especially thankful to him for their kind co-operatio.

We are thankful to respected Mr. A.U.Patel (Principal of Shree M & N Virani Science College, Rajkot) for giving us opportunity to do this project. His Inspiration and generous support gave us sufficient strength to prepare the project.

We are also thankful to respected Mr. Hitendra Donga & Stavan Patel (H.O.D of Computer Department) whose energetic support, guidance and inspiration gave us a vast path to the success of this project.

Only the expression of “Thanks” can’t appreciate these wonderful and kindly natured persons who contributed their best efforts to help us. Thank You to all of you with honors.
PROJECT PROFILE

PROJECT TITLE :-

➢ Railway Reservation

HARDWARE AND SOFTWARE USED :

Software Requirement :-

➢ Operating System :- Windows Xp/7
➢ Front end :- Microsoft Visual Studio 2008
➢ Back end :- Sql Server2008

Hardware Requirements :-

➢ RAM :- 412 MB or more
➢ Hard disk :- 10 GB or more

Develop by: THUMMAR DHARA & GADHIYA KINARA
DOCUMENTATION TOOLS :-

- Microsoft word 2007
- Microsoft Visio 2007

PROJECT DURATION:

- 4 MONTHS

PROJECT TEAM SIZE:

- 2 Partners

SEM – YEAR :

6th SEM – 2012

PROJECT GUIDE:

- Mr. Pradip Vanpariya
- Mr. keyur Zala

DEVELOPED BY:

- Ms. Thummar Dhara
- Ms. Gadhiya Kinara

SUBMITTED TO:

ге Shree M & N Virani Science College, Rajkot
Introduction

This project will give us the information about railway reservation. This system is basically concerned with the reservation and cancellation of railway tickets to the passengers. To be more specific, our system is limited in such a way that a train starting from a particular source will have a single destination.

The basic functions being performed by our system are reservation and cancellation.

Customers can find the proper and correct information about the railway and shows the

- It reserves and cancels seats for the passenger.
- It contains information about the trains.
- It contains information about the Seat Availability
- Railway time table
- Reservation Possibilities.
- Train Ticket booking,
- Booked Railway Ticket Status,
- Train between stations
Technology Study

Introduction to c#:

✓ Microsoft its new, object-oriented language, C#, as the best language for writing Microsoft .NET applications.

✓ C# provides the rapid application development found in Visual Basic with the power of C++.

✓ C# syntax is similar to C++ syntax. Some experts also say that C# is Microsoft's answer to Sun Microsystems' Java and Borland's Delphi.

✓ C# could theoretically be compiled to machine code, but in real life, it's always used in combination with the .NET framework.

✓ Therefore, applications written in C#, requires the .NET framework to be installed on the computer running the application.

✓ While the .NET framework makes it possible to use a wide range of languages, C# is sometimes referred to as THE .NET language, perhaps because it was designed together with the framework.

✓ C# is an Object Oriented language and does not offer global variables or functions.
Everything is wrapped in classes, even simple types like int and string, which inherits from the System. Object class.

In .NET, the Object class is the root of all types.

All types are implicitly derived from this class so they have access to the methods defined in the Object class.

**Features of C#:**

- Reference and output parameters
- Objects on the stack (structs)
- Rectangular arrays
- Enumerations
- Unified type system
- Goto
- Versioning
- Component-based programming
- Properties
- Events
- Reflection
- Delegates
- Smart Array
- Indexers
- Operator overloading
SQL Server 2008

SQL Server 2008 is a high specification database management system that replaces SQL Server 2005. In addition to the original version, SQL Server 2008R and 2008R2 are available with a simple upgrade. According to Microsoft's brochure the SQL Server 2008 can "manage any data, any time, any place." With such a strong mission statement the software system is at the pinnacle of modern and integrative data management.

SQL Server 2008 Features

- Search and query functions are faster by a feature that reduces storage space through data compression.
- Security is paramount with a new data encryption application as well as a policy management feature that ensures compliance across the network.
- Performance System Analysis is another feature enabling a system wide troubleshoot for specific criteria or problems within the database. Finally, continuity for applications and hardware upgrades provide a seamless platform for growth.

SQL Server 2008 Technologies

- SQL Server 2008 is available in two main editions and four specialized editions and caters for all business types.
System Analysis

- We have gathered all information by visiting a main office and analyze the working of the government railway reservation system. How they maintain details of passengers.

- Today all reservation systems in real time are computerized. All transactions of railway reservation can be done through software related to railway reservation.

- Today user wants to do transactions fastly so they can use software or system for store information access the information. So we have developed such a software, they can help them.

- According to analysis of many sites and reservation system we put all the facilities that can help the users to get reservation.

- Facilities like reservation, cancellation of tickets, get the distance between cities and etc.
Feasibility

The feasibility study is the important step in any system development process. Because it makes analysis of different aspects like cost required for developing and executing the system, the time required for each stage of the system.

If these important factors are not analyzed then definitely it would be a total failure. So for running the application and the organization successfully this step is a very important step in a software development lifecycle process.

There are three types of feasibility analysis:

1) Operational feasibility
2) Technical feasibility
3) Economical/financial feasibility

1) Operational Feasibility:-

- Operational feasibility measures how well the solution will work in the organization and how will end-user & management feels about the system. Proposed system is helpful for all the users associated with the organization.

- It will allow the administrator to have up-to-date information regarding all the aspects of their users, the decision-making process will also become faster with the
use of data integration, consolidation. So it is feasible to implement the system.

2) **Technical feasibility:**

- This involves questions such as whether the technology needed for the system exists, how difficult it will be to build, and whether the firm has enough experience using that technology.

- This system required minimum hardware equipment to run efficiently.

3) **Economical feasibility:**

- Economically to find out whether this project is economically feasible or not for that used feasibility analyses.

- In this stage list direct costs or indirect costs associated with the project.
**User Requirements**

- To do the reservation transaction user must have the unique user name and password.

- Users should be able to view a train detail according to their requirements.

- For reservation booking user has to fill all the information that is given in the form.

- User can cancel the reservation by giving the unique passenger id and other necessary details.

- User can get the distance between two cities by giving the name of cities.
Data flow Diagram

**Definition:**

Data-Flow design is concerned with designing a sequence of functional transformations that converts system inputs into the required outputs. Data-flow diagrams are useful and intuitive way of describing a system. They are normally understandable without special training, especially if control information is excluded.

Conventions used in drawing the data-flow diagram, here are given as below:

![Data Flow Diagram]

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Data Flow Diagram
E - R Diagram

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**Table Name: Cancelation**

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</table>
Screen Shots

Develop by: THUMMAR DHARA & GADHIYA KINARA
 LOGIN PAGE

User id
Password
Add New  Log in  Cancel

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RAILWAY RESERVATION

HOME PAGE

WELCOME TO INDIAN RAILWAY RESERVATION

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RAILWAY RESERVATION

RESERVATION DETAIL

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CANCELATION

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RAILWAY RESERVATION

TRAIN DETAIL

Train information

- Train no: B-25
- Train name: BORIVAL
- Not available: MONDAY
- Starting station: JUNAGADH
- Ending station: RAJKOT
- Via station: AMDAVAD
- Departure Time: 2:00

- || ac seats: 1
- ||| ac seats: 
- ac chair seat: 
- || class seats: 3
- ||class seats: 
- General seats: 2

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## Train Fare

### Train Detail

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<th>Description</th>
<th>Details</th>
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</tr>
<tr>
<td>Starting Station</td>
<td>RAJKOT</td>
</tr>
<tr>
<td>Ending Station</td>
<td>KESOD</td>
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<td>AC fare</td>
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<td>I class fare</td>
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<tr>
<td>I class fare</td>
<td></td>
</tr>
<tr>
<td>General fare</td>
<td></td>
</tr>
</tbody>
</table>

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DISTANCE BETWEEN TWO CITY

Starting station: JAMNAGARI
Ending station: AHMEDABAD
Distance between two cities: 500
NEW TRAIN

Train information

- Train no: A-40
- Train name: gandhi
- Not available: 12:00
- Starting station: gondal
- Ending station: rajkot
- Via station: shapar
- Departure Time: 2:00
- ac seats: 4
- ac seats: 0
- ac chair seat: 2
- class seats: 0
- class seats: 0
- General seats: 1

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MAP

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Project Risk

- Project Risks threaten the project plan that is, if project risk become real are likely project schedule will slip and that costs will increase.
- Project risk identify potential budgetary, schedule, personal, resource and requirement problems and their impact on a software project.
- Project complexity, size and degree of structural uncertainly where also defined as project risk factor.
- We have distributed the possible risk the following categories and tried to find out the possible risk categories:-

1. **Size-related risks**: Risk related with the size of the project

2. **Process definition**: Risk associated with the degree to which I have defined my software installation process.

3. **Development environment risk**: Risk associated with the availability and quality of the tools to be used to build the product.

4. **Technology risk**: Technology availability and usability.

5. **Experience**: Available experience in me concerned technology.
Conclusion

Practical Training is a very important part of the curriculum as it strengthens the concepts and enhances knowledge about the practical implementation of all the theory concepts, we have learn so far in different subjects.

Our project is railway reservation system. This project is used to keep a track on reserving the seat to the passenger. It helps managing the system very efficiently and conveniently.

Although the project work has been done in a complete and detailed manner but due to the constraint of time, we could not include some more features we wanted to. We left these features as a part of the feature development. As soon as we’ll get time we’ll try to add them to my project.
BiBlioGraphy

1) Book:=
   • Programming with C#
     By Balaguru sami
   • Programming with c#
     By Bharat & Co.
   • C#.net - Unleashed

2) Websites:=
   ➢ www.google.com
Thank you

Develop by: THUMMAR DHARA & GADHIYA KINARA