Project Report On

Railway Management System

Submitted By

Rajat Saxena

(2000290140097)

Ritik Srivastava

(2000290140104)

Chandresh Gangwar

(2000290140037)

Submitted in partial fulfilment of the

Requirements for the Degree of

MASTER OF COMPUTER APPLICATIONS

Under the Supervision of

Mr. Shashank Bhardwaj

Submitted to

DEPARTMENT OF COMPUTER APPLICATIONS

KIET Group of Institutions, Ghaziabad

Uttar Pradesh-201206

(MAY 2022)

DECLARATION

I hereby declare that the work presented in this report entitled “Railway Management System", was carried out by me. I have not submitted the matter embodied in this report for the award of any other degree or diploma of any other University or Institute. I have given due credit to the original authors/sources for all the words, ideas, diagrams, graphics, computer programs, experiments, results, that are not my original contribution. I have used quotation marks to identify verbatim sentences and given credit to the original authors/sources.
I affirm that no portion of my work is plagiarized, and the experiments and results reported in the report are not manipulated. In the event of a complaint of plagiarism and the manipulation of the experiments and results, I shall be fully responsible and answerable.

Name : Rajat Saxena,Ritik Srivastava,Chandresh Gangwar
Enroll.no : 2000290140097, 2000290140104, 2000290140037

Field : Master of Computer Application

(Candidate Signature)

CERTIFICATE

Certified that **Rajat saxena** (2000290140097),**Ritik Srivastava (**2000290140005789),**Chandresh Gangwar**(2000290140037) has carried out the research work presented in this thesis entitled **"Railway Mangement System"** for the award of **Master of Computer Applications** from Dr. APJ Abdul Kalam Technical University, Lucknow under my/our supervision. The thesis embodies results of original work, and studies are carried out by the student himself and the contents of the thesis do not form the basis for the award of any other degree to the candidate or to anybody else from this or any other University/Institution.

Signature

Dr Shashank Bhardwaj

Assistant Professor

Ghaziabad, U.P

Signature

Dr Shashank Bhardwaj

Assistant Professor

Ghaziabad, U.P

Date:27/05/2022

Note: In case of only one supervisor, the sole supervisor will sign on the right side and the details on the left will not be printed. In case of three supervisors, the third one along with his/her name, designation, address will sign in the centre of the page underneath the details of the two other supervisors. The date, however, will be common to all.

ABSTRACT

The purpose of Railway Management System is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The software and hardware required are easily available and easy to work with.

Railway Management System can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather than concentrate on the record keeping. Thus it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

The aim is to automate its existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically, the project describes how to manage good performance and better services for the clients.

TABLE OF CONTENTS

1. **Introduction**
2. **Project Objective**
3. **Scope & Modules**
4. **Research Methodology**
5. **Features of Railway Management System**
6. **Thesis Submission and Binding Specifications**
7. **Software Requirement Specification**
8. **Identification of need**
9. **Feasibility study**
10. **System Design of Railway Management System**
11. **User Interface Design**
12. **Preliminary Product Descriptions**
13. **Implementation Methodology**
14. **Tools Platform**
15. **..Design ScreenShot**
16. **Code**
17. **System Analysis**
18. **..Conclusion of the Project**
19. **Future scope of the Project**
20. **Limitations of the Project**
21. **Bibliography references**

1. INTRODUCTION

The "Railway Management System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and, in some cases, reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.
The application is reduced as much as possible to avoid errors while entering the data. It also provides error messages while entering invalid data. No formal knowledge is needed for the user to use this system. Thus, through all this it proves it is user-friendly.
Railway Management System, as described above, can lead to an error-free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather than concentrate on the record keeping. Thus, it will help organization in better utilization of resources.
Every organization, whether big or small, has challenges to overcome and manage the information's of Ticket, Train, Customer, Seat. Every Railway Management System has different Train needs; therefore, we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executives who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all time. These systems will ultimately allow you to better manage resources.

2. Project Objective

The main objective of the Project on Railway Management System is to manage the details of Train (Train number, Train name, Destination, source, Departure time, Arrival Time). It manages all the information about Train. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Train details. It tracks all the details about the train number, train name, departure, arrival.

Functionalities provided by Railway Management System are as follows:

1. Provides the searching facilities based on various factors.
2. Shows the information and description of the Train.
3. To increase efficiency of managing the Train details.
4. It deals with monitoring the information and transfers train details to Customer.
5. Manage the information of Train.
6. Editing, adding and updating of Records is improved which results in proper resource management of Train data.

3. Scope and modules of project

It may help collecting perfect management in detail. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to Railway Management System. It will be also reduced the cost of collecting the management & collection procedure will go on smoothly.

Our project aims at Business process automation, i.e we have tried to computerize various processes of Railway Management System.

- In computer system the person has to fill the various forms & number of copies of the forms can be easily generated at a time.
- To utilize resources in an efficient manner by increasing their productivity through automation.
- The system generates types of information that can be used for various purposes.
- It satisfies the user requirement
- Be easy to understand by the user and operator
- Be easy to operate
- Have a good user interface
- Be expandable
- Delivered on schedule within the budget.

Modules:

- Train Management Module: Used for managing the Train details.
- Seat Module: Used for managing the details of Seat
- Customer Module: Used for managing the Customer information
- Login Module: Used for managing the login details
- Users Module: Used for managing the users of the system

4.Research Methodology

Input Data and Validation of Project on Railway Management System:

1. All the fields such as:

   A. Train number
   B. Train Name
   C. Source
   D. Destination
   E. Departure time
   F. Arrival time
   G. Distance etc. are validated and does not take invalid values

2. Avoiding errors in data
3. Controlling amount of input
4. Integration of all the modules/forms in the system.
5. Preparation of the test cases.
6. Preparation of the possible test data with all the validation checks.
7. Actual testing done manually
8. Recording of all the reproduced errors.
9. Modifications done for the errors found during testing.
10. Prepared the test result scripts after rectification of the errors.
11. Functionality of the entire module/forms.
12. Validations for user input.
13. Checking of the Coding standards to be maintained during coding.
14. Testing the module with all the possible test data.
15. Testing of the functionality involving all types of calculations etc.
16. Commenting standard in the source files.

5. Features of Railway Management System:

1. Add train details
2. Update train details
3. Show train details
4. Delete train details
5. Accuracy in work.
6. Easy & Fast retrieval of information.
7. Well design reports.
8. Decrease the load of the people involved in the existing manual system.
9. Access of any information individually.
10. Work becomes very speedy.
11. Easy to update information
12. User Accounts to control access and maintain security

6 . THESIS SUBMISSION AND BINDING SPECIFICATIONS

DR. APJ ABDUL KALAM TECHNICAL UNIVERSITY, LUCKNOW
(Formerly Uttar Pradesh Technical University, Lucknow)

CERTIFICATE OF THESIS SUBMISSION FOR EVALUATION

1. Name: Rajat saxena ,Ritik Srivastava, Chandresh Gangwar

2. EnrollmentNo.: 2000290140097, 2000290140104, 2000290140037

3. Thesis title: Railway Management System

1. Degree for which the thesis is submitted: Master of Computer Application

2. Faculty of the University to which the thesis is submitted: Dr Shashank Bhardwaj

3. Thesis preparation guideline was referred to for preparing thesis. ☐ YES ☐ NO

4. Specifications regarding thesis format have been closely followed. ☐ YES ☐ NO

5. The contents of the thesis have been organized based on the guidelines. ☐ YES ☐ NO

6. The thesis has been prepared without resorting to plagiarism. ☐ YES ☐ NO

7. All sources used have been cited appropriately. ☐ YES ☐ NO

8. The thesis has not been submitted elsewhere for a degree. ☐ YES ☐ NO

9. Submitted four spiral bound copies plus one CD. ☐ YES ☐ NO

(Signature of the Candidate)

Name: Rajat saxena ,
Ritik Srivastava,
Chandresh Gangwar

EnrollmentNo.:2000290140097,
2000290140104,
2000290140037

DR. APJ ABDUL KALAM TECHNICAL UNIVERSITY, LUCKNOW
(Formerly Uttar Pradesh Technical University, Lucknow)

CERTIFICATE OF FINAL THESIS SUBMISSION

1. Name: Ritik Srivastava

2. Enrollment No.: 2000290140057 89

3. Thesis title: Railway Management System

4. Degree for which the thesis is submitted: Master of Computer Applications

5. Faculty (of the University to which the thesis is submitted):

   Dr Shashank Bhardwaj

6. Thesis preparation guideline was referred to for preparing thesis. ☐ YES ☐ NO

7. Specifications regarding thesis format have been closely followed. ☐ YES ☐ NO

8 . The contents of the thesis have been organized based on the guidelines. ☐ YES ☐ NO

9. The thesis has been prepared without resorting plagiarism. ☐ YES ☐ NO

10. All sources used have been cited appropriately. ☐ YES ☐ NO

11. The thesis has not been submitted elsewhere for a degree. ☐ YES ☐ NO

12. All the corrections have been incorporated. ☐ YES ☐ NO

13. Submitted two hard bound copies plus one CD. ☐ YES ☐ NO

(Signature(s) of the Supervisor(s))

(Signature of the Candidate)

Name: Rajat saxena ,
Ritik Srivastava,
Chandresh Gangwar

EnrollmentNo.:2000290140097,
2000290140104
2000290140037

7.Software Requirement Specification

The Software Requirements Specification is produced at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by establishing a complete information description, a detailed functional and behavioral description, an indication of performance requirements and design constraints, appropriate validation criteria, and other data pertinent to requirements.

The proposed system has the following requirements:

1. System needs store information about new entry of Train.
2. System needs to help the internal staff to keep information of Ticket and find them as per various queries.
3. System needs to maintain quantity record.
4. System needs to keep the record of Booking.
5. System needs to update and delete the record.
6. System also needs a search area.
7. It also needs a security system to prevent data.

8. Identification of need

The old manual system was suffering from a series of drawbacks. Since the whole system was to be maintained with hands the process of keeping, maintaining and retrieving the information was very tedious and lengthy. The records were never used to be in a systematic order. There used to be lots of difficulties in associating any particular transaction with a particular context. If any information was to be found it was required to go through the different registers, documents there would never exist anything like report generation. There would always be unnecessary consumption of time while entering records and retrieving records. One more problem was that it was very difficult to find errors while entering the records. Once the records were entered it was very difficult to update these records.

The reason behind it is that there is a lot of information to be maintained and it has to be kept in mind while running the business. For this reason, we have provided features Present system is partially automated (computerized), actually existing system is quite laborious as one has to enter same information at three different places.

The following points should be well considered:

1. Documents and reports that must be provided by the new system: there can also be few reports, which can help management in decision-making and cost controlling, but since these reports do not get required attention, such kind of reports and information were also identified and given required attention.
2. Details of the information needed for each document and report.
3. The required frequency and distribution for each document.
4. Probable sources of information for each document and report.
5. With the implementation of computerized system, the task of keeping records in an organized manner will be solved.
6. The greatest of all is the retrieval of information, which will be at the click of the mouse. So the proposed system helps in saving time in different operations and making information flow easy, giving valuable report

9. Feasibility Study:

After doing the project, study and analyzing all the existing or required functionalities of the system, the next task is to do the feasibility study for the project. All projects are feasible - given unlimited resources and infinite time10

Feasibility study includes consideration of all the possible ways to provide a solution to the given problem. The proposed solution should satisfy all the user requirements and should be flexible enough so that future changes can be easily made based on the future upcoming requirements.

A. Economical Feasibility

This is a very important aspect to be considered while developing a Project. We decided the technology based on minimum possible cost factor.

a. All hardware and software cost has to be borne by the organization.
b. Overall we have estimated that the benefits the organization is going to receive from the proposed system will surely overcome the initial costs and the later on running cost for system.

B. Technical Feasibility

This included the study of function, performance and constraints that may affect the ability to achieve an acceptable system. For this feasibility study, we studied complete functionality to be provided in the system, as described in the System Requirement Specification and checked if everything was possible using different type of frontend and backend planform.

C. Operational Feasibility

No doubt the proposed system is fully GUI based that is very user friendly and all inputs to be taken all self-explanatory even to a layman. Besides, proper training has been conducted to leave the essence of the system to the users so that they feel comfortable with the new system. As far as our study is concerned the clients are comfortable and happy as the system has cut down their loads and doing.

10. System Design of Railway Management System

In this phase, a logical system is built which fulfils the given requirements. Design phase of software development deals with transforming the clients' requirements into a logically working system. Normally, design is performed in the following two steps:

1. Primary Design Phase:

In this phase, the system is designed at block level. The blocks are created on the basis of analysis done in the problem identification phase. Different blocks are created for different functions emphasis is put on minimizing the information flow between blocks. Thus, all activities which require more interaction are kept in one block.

2. Secondary Design Phase:

In the secondary phase the detailed design of every block is performed.

The general tasks involved in the design process are the following:

1. Design various blocks for overall system processes.
2. Design smaller, compact and workable modules in each block.
3. Design various database structures.
4. Specify details of programs to achieve desired functionality.
5. Design the form of inputs, and outputs of the system.
6. Perform documentation of the design.
7. System reviews.

11. User Interface Design

User Interface Design is concerned with the dialogue between a user and the computer. It is concerned with everything from starting the system or logging into the system to the eventually presentation of desired inputs and outputs. The overall flow of screens and messages is called a dialogue.

The following steps are various guidelines for User Interface Design:

1. The system user should always be aware of what to do next.
2. The screen should be formatted so that various types of information, instructions and messages always appear in the same general display area.
3. Message, instruction or information should be displayed long enough to allow the system user to read them.
4. Use display attributes sparingly.
5. Default values for fields and answers to be entered by the user should be specified.
6. A user should not be allowed to proceed without correcting an error.
7. The system user should never get an operating system message or fatal error.

12. Preliminary Product Description:

The first step in the system development life cycle is the preliminary investigation to determine the feasibility of the system. The purpose of the preliminary investigation is to evaluate project requests. It is not a design study nor does it include the collection of details to describe the business system in all respect. Rather, it is the collecting of information that helps committee members to evaluate the merits of the project request and make an informed judgment about the feasibility of the proposed project.

Analysts working on the preliminary investigation should accomplish the following objectives:

- Clarify and understand the project request
- Determine the size of the project.
- Assess costs and benefits of alternative approaches.
- Determine the technical and operational feasibility of alternative approaches.
- Report the findings to management, with recommendations outlining the acceptance or rejection of the proposal.

- **Benefit to Organization**

The organization will obviously be able to gain benefits such as savings in operating cost, reduction in paperwork, better utilization of human resources and more presentable image increasing goodwill.

- **The Initial Cost**

The initial cost of setting up the system will include the cost of hardware software (OS, add-on software, utilities) & labour(setup & maintenance). The same has to bear by the organization.

- **Running Cost**

Besides, the initial cost the long term cost will include the running cost for the system including the AMC, stationary charges, cost for human resources, cost for update/renewal of various related software.

- **Need for Training**

The users along with the administrator need to be trained at the time of implementation of the system for smooth running of the system. The client will provide the training site.

We talked to the management people who were managing a the financial issues of the center, the staff who were keeping the records in lots of registers and the reporting manager regarding their existing system, their requirements and their expectations from the new proposed system. Then, we did the system study of the entire system based on their requirements and the additional features they wanted to incorporate in this system.

Reliable, accurate and secure data was also considered to be a complex task without this proposed system. Because there was no such record for keeping track of all the activities, which was done by the Railway Management systemon the daily basis.

The new system proposed and then developed by me will ease the task of the organization in consideration. It will be helpful in generating the required reports by the staff, which will help them to track their progress and services.

Thus, it will ease the task of Management to a great extent as all the major activities to be performed, are computerized through this system.

13. Implementation Methodology:

Model View Controller or MVC as it is popularly called, is a software design pattern for developing web applications. A Model View Controller pattern is made up of the following three parts:

- **Model** - The lowest level of the pattern which is responsible for maintaining data.
- **View** - This is responsible for displaying all or a portion of the data to the user.
- **Controller** - Software Code that controls the interactions between the Model and View.

MVC is popular as it isolates the application logic from the user interface layer and supports separation of concerns. Here the Controller receives all requests for the application and then works with the Model to prepare any data needed by the View. The View then uses the data prepared by the Controller to generate a final presentable response.

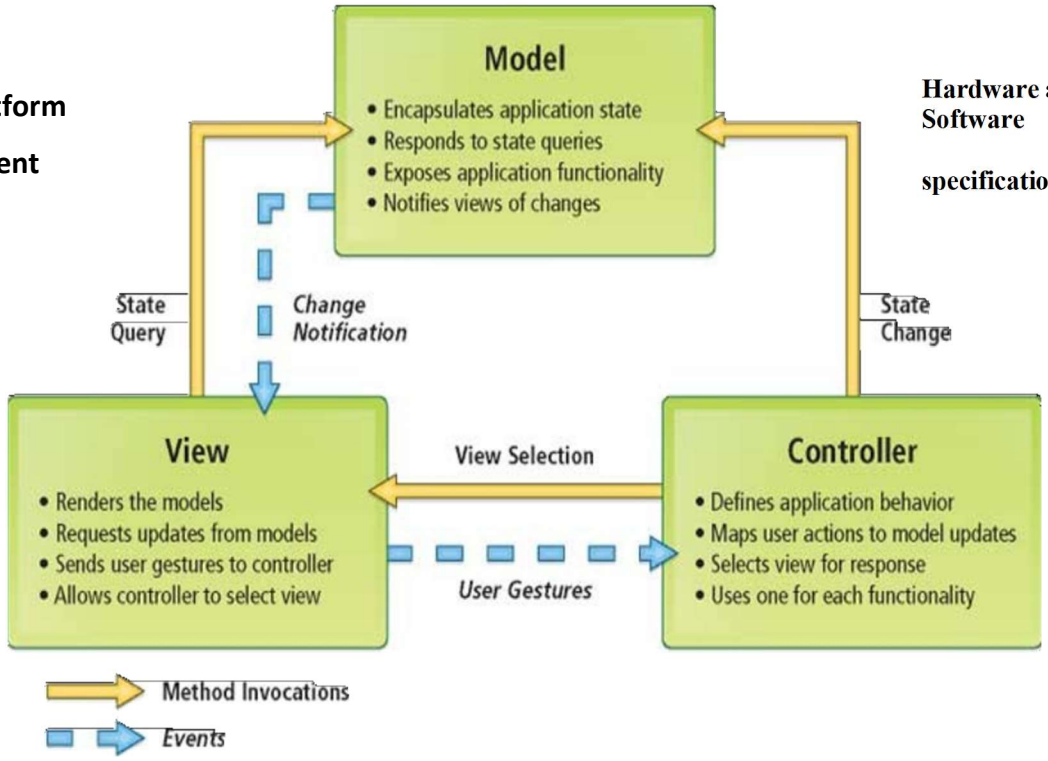
The MVC abstraction can be graphically represented as follows.

MVC (Model View Controller Flow) Diagram

DATA FLOW DIAGRAMS

Tools/Platform Requirement

Hardware and Software specifications:



14. Tools & platform- s/w and H/w Requirements

Software Requirements

Name of component	Specification
Operating System	Windows 98, Windows XP, Windows7,
Front End	HTML & CSS
Back End	Java JSP Servet
Browser	Any of Mozilla, Opera, Chrome etc.
Software Development Kit	Java JDK 1.7 or Above
Database	MySQL

Hardware Requirements:

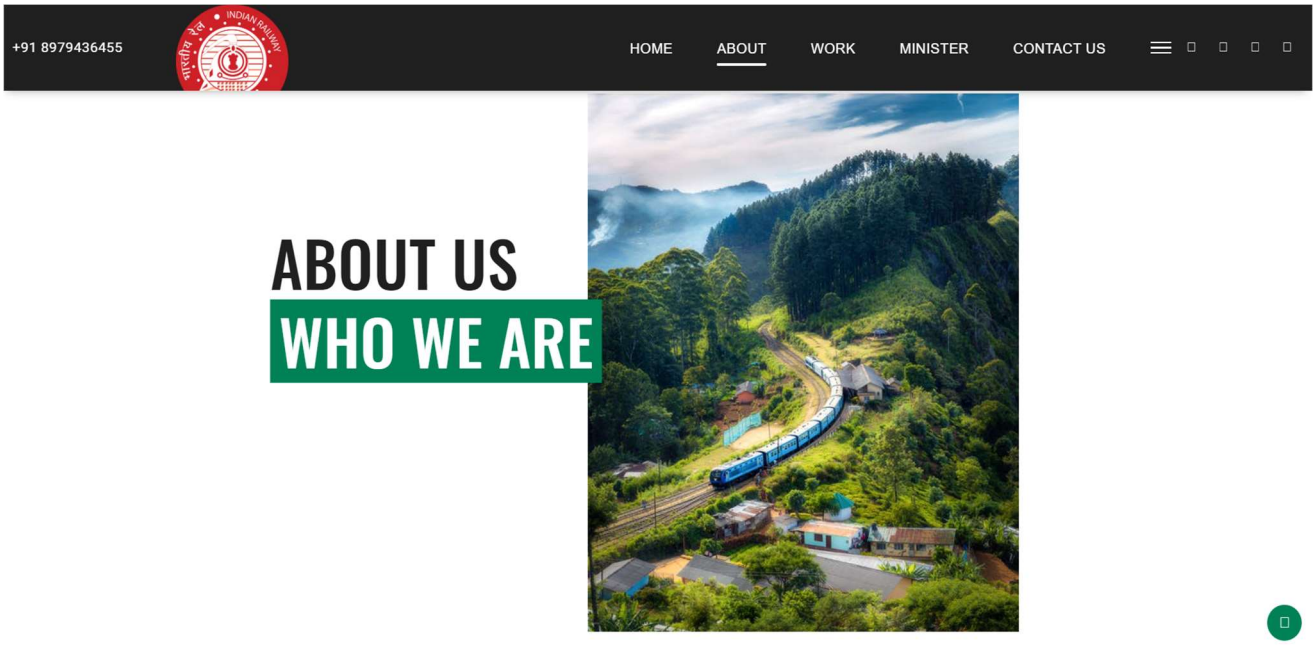
Name of component	Specification
RAM	128 MB
Monitor	15” color monitor

15. Design:

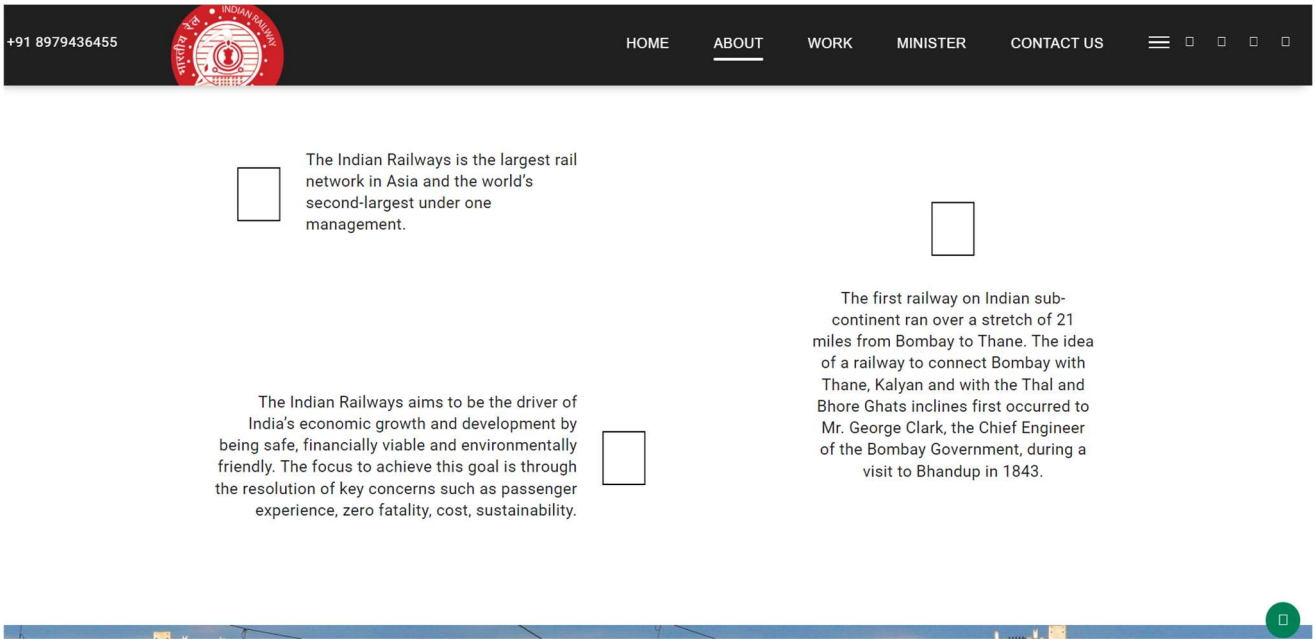
15.1 Front Page:

15.1.1 Home:

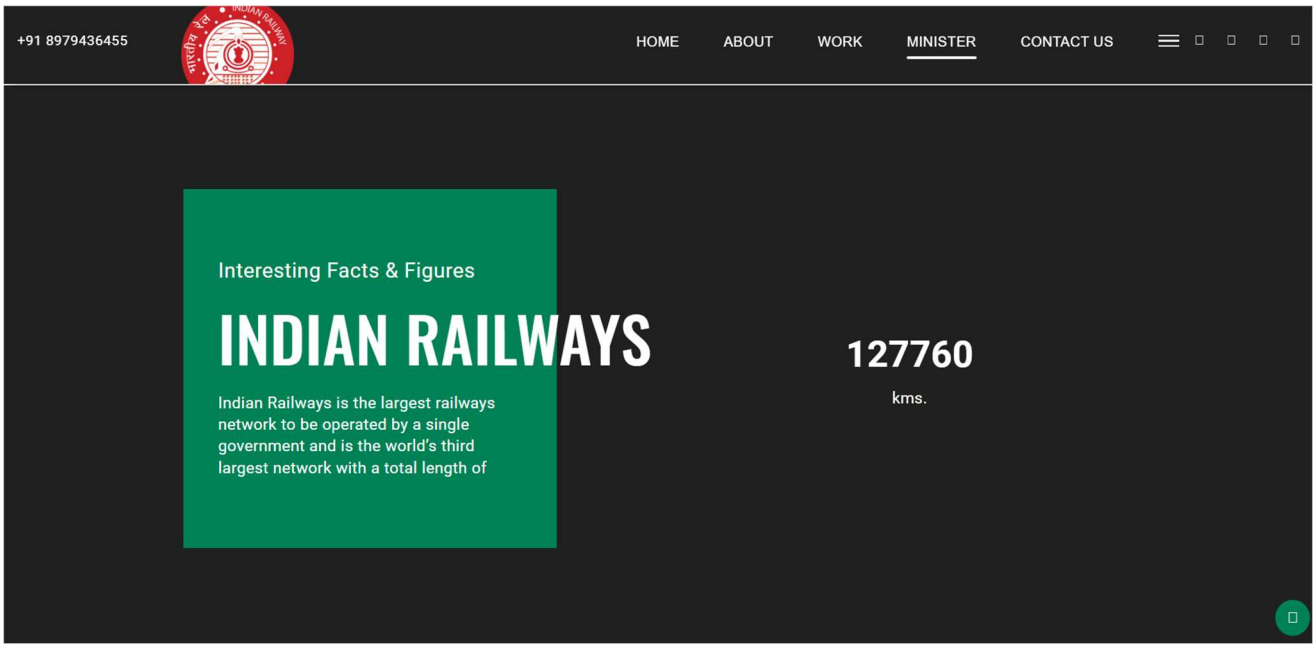
15.1.2 About:



About :


+91 8979436455
HOME
ABOUT
WORK
MINISTER
CONTACT US
The Indian Railways is the largest rail network in Asia and the world's second-largest under one management.
The first railway on Indian sub-continent ran over a stretch of 21 miles from Bombay to Thane. The idea of a railway to connect Bombay with Thane, Kalyan and with the Thal and Bhore Ghats inclines first occurred to Mr. George Clark, the Chief Engineer of the Bombay Government, during a visit to Bhandup in 1843.
The Indian Railways aims to be the driver of India's economic growth and development by being safe, financially viable and environmentally friendly. The focus to achieve this goal is through the resolution of key concerns such as passenger experience, zero fatality, cost, sustainability.

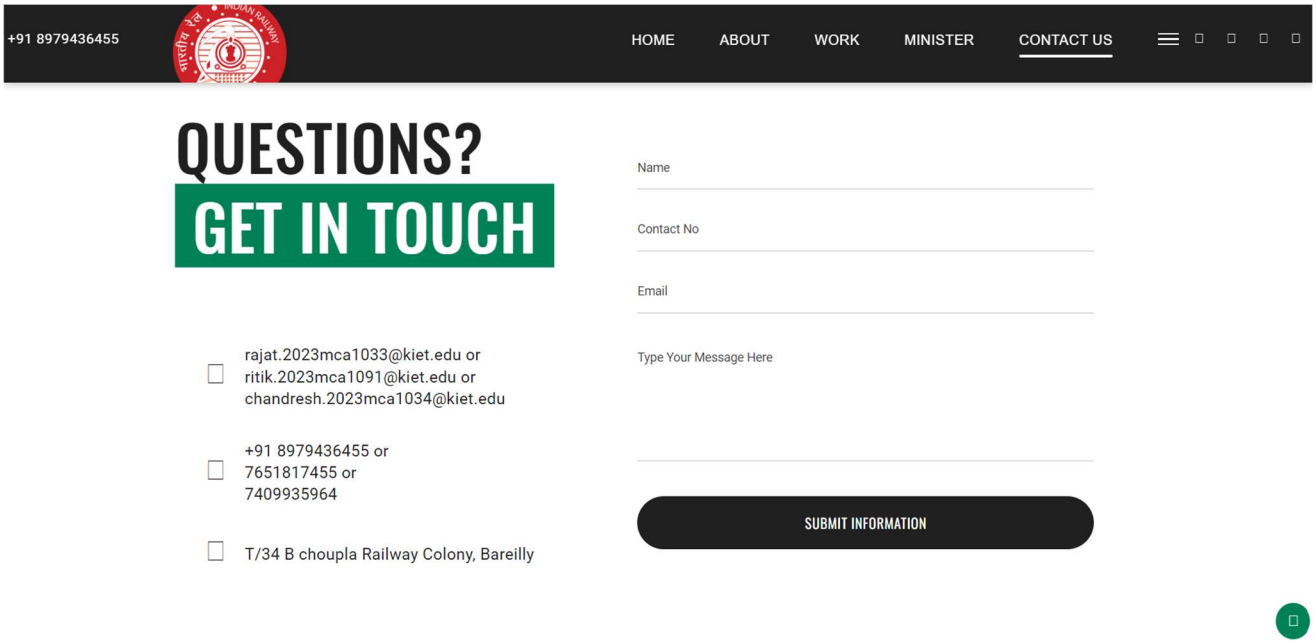
About:


+91 8979436455
HOME
ABOUT
WORK
MINISTER
CONTACT US
Interesting Facts & Figures
INDIAN RAILWAYS
Indian Railways is the largest railways network to be operated by a single government and is the world's third largest network with a total length of
127760
kms.

15.1.3 Work:

15.1.4 Minister page:

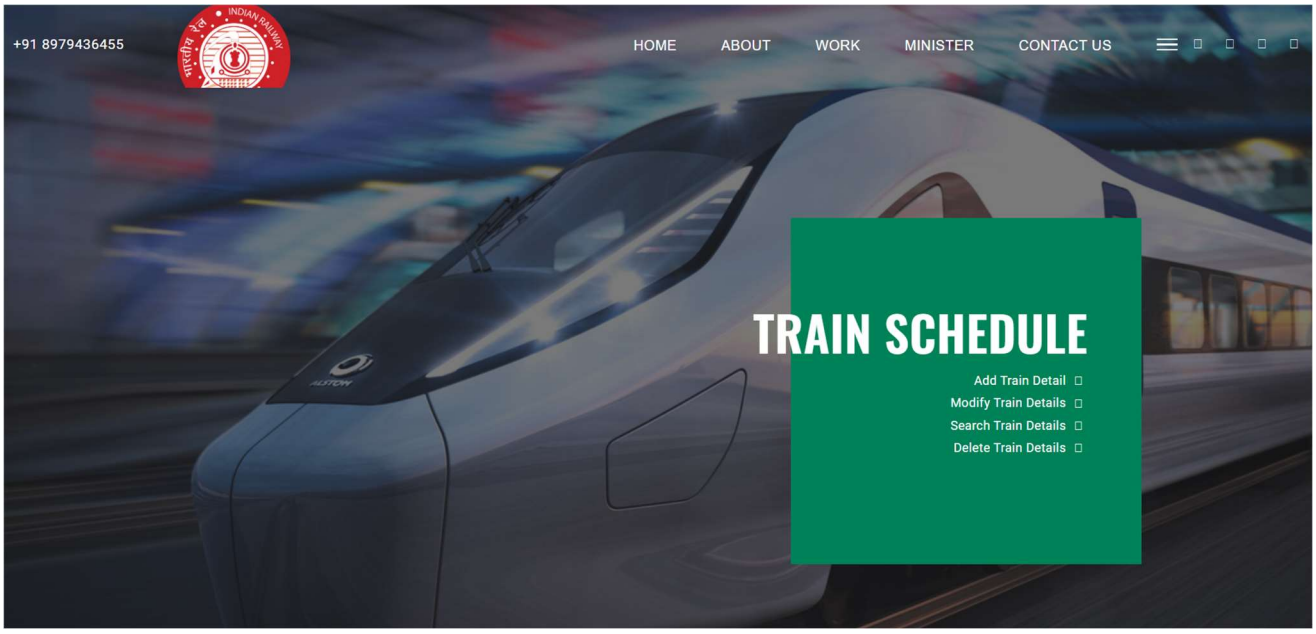
15.1.5 Contact us:



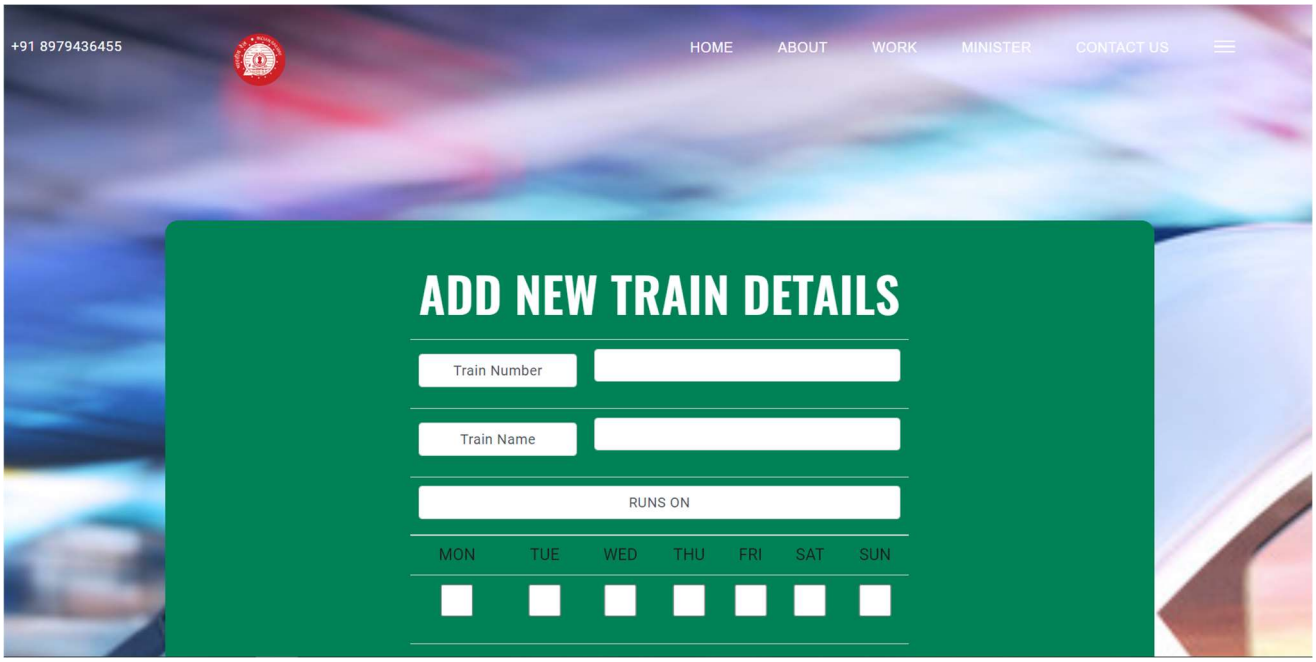
15.2 User And admin Interface Page

15.3 Admin Login Page:

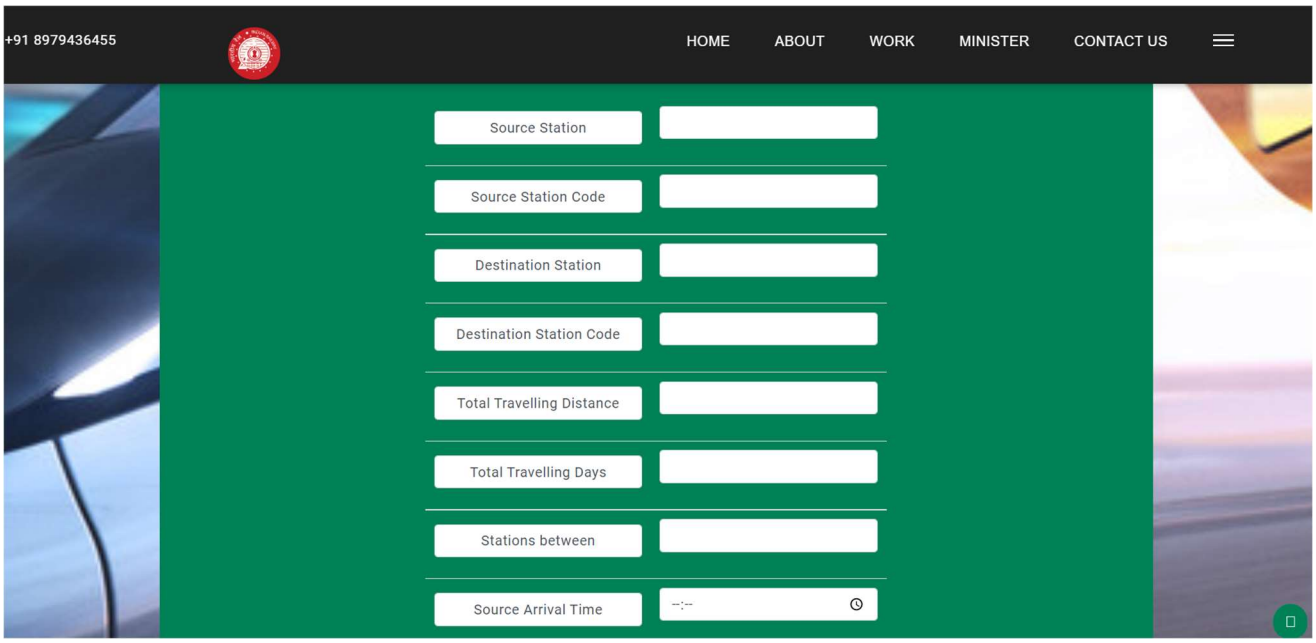
15.4 Operation performed on train detail:



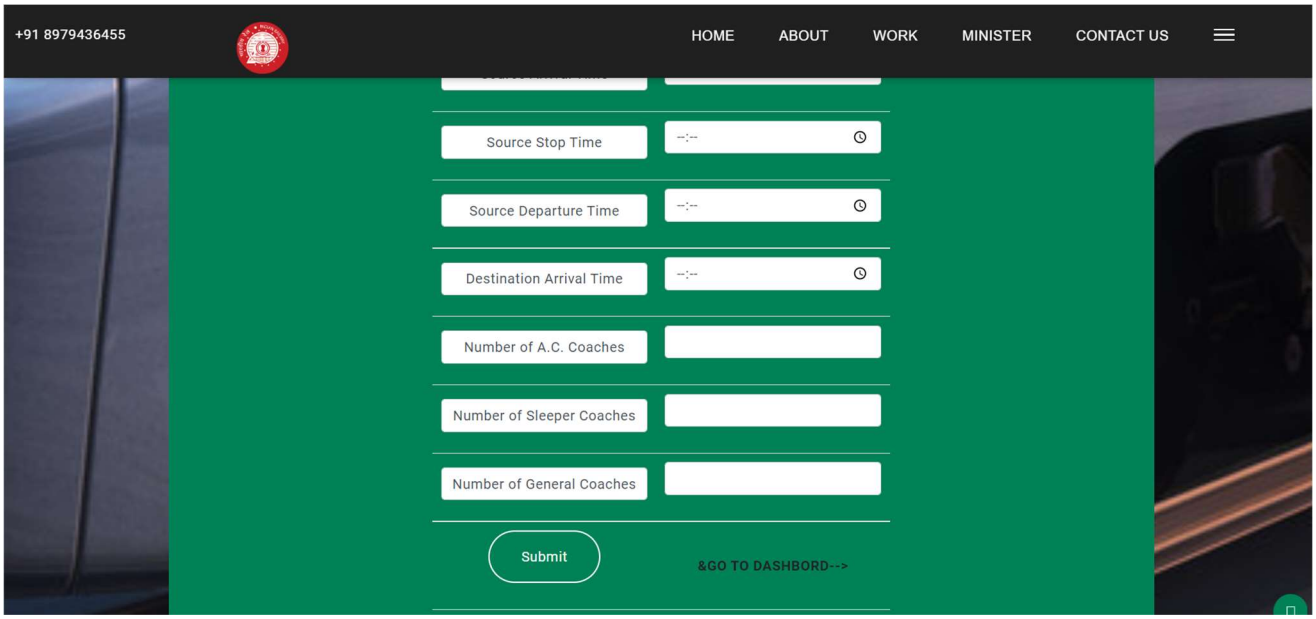
15.5 Add Train detail page :



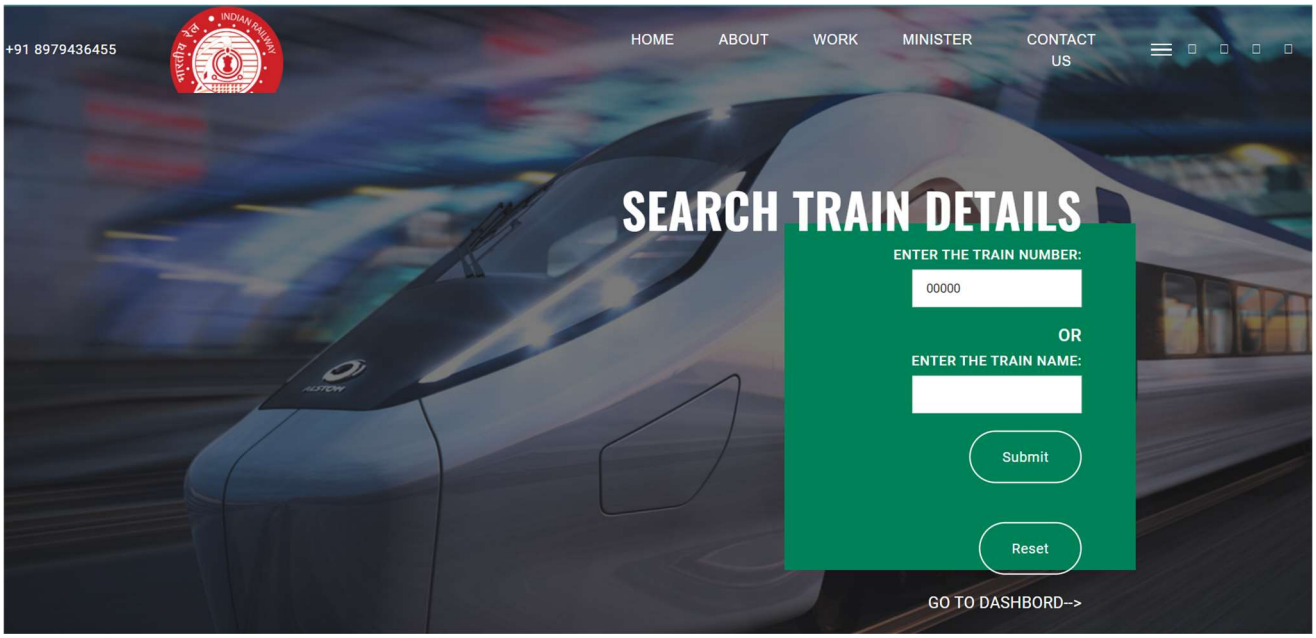
Form page:



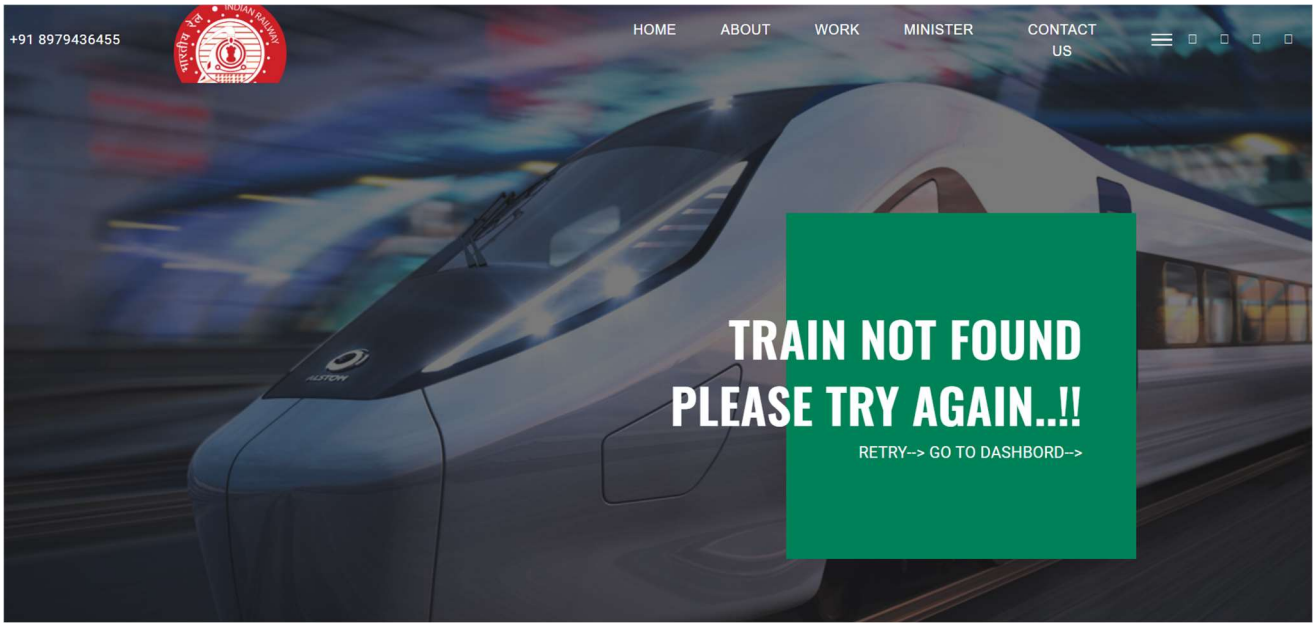
Form page:



15.6 Search Train detail:



15.7 Train detail not found



16. Coding

16.1 Index page:

```
<!DOCTYPE html>
<html lang="en">


<!-- Mirrored from megaone.acrothemes.com/index-new-agency.html by HTTrack Website Copier/3.x [XR&CO'2014], Tue, 19 Apr 2022 03:52:56 GMT -->
<head>
    <!-- Meta Tags -->
    <meta charset="utf-8">
    <meta content="width=device-width, initial-scale=1, shrink-to-fit=no" name="viewport">
    <!-- Author -->
    <meta name="author" content="Themes Industry">
    <!-- Description -->
    <meta name="description" content="MegaOne is a highly creative, modern, visually stunning and Bootstrap responsive multipurpose studio and portfolio HTML5 template with ready home page demos.">
    <!-- Page Title -->
    <title>Railways Management System</title>
    <!-- Favicon -->
    <link href="https://cdn-icons.flaticon.com/png/512/2487/premium/2487845.png?token=exp=1650693126~hmac=e49355c3d0e3f3c151d2db02e8b8d06e" rel="icon">
   <!--<link href="https://megaone.acrothemes.com/vendor/img/favicon.ico" rel="icon">  -->
    <!-- Bundle -->
    <link rel="stylesheet" href="https://megaone.acrothemes.com/vendor/css/bundle.min.css">
    <!-- Revolution Slider CSS Files -->
    <link rel="stylesheet" href="https://megaone.acrothemes.com/vendor/css/revolution-settings.min.css">
```

```
    <!-- Plugin Css -->
    <link href="https://megaone.acrothemes.com/vendor/css/LineIcons.min.css"
rel="stylesheet">
    <link href="https://megaone.acrothemes.com/vendor/css/jquery.fancybox.min.css"
rel="stylesheet">
    <link href="https://megaone.acrothemes.com/vendor/css/owl.carousel.min.css"
rel="stylesheet">
    <link href="https://megaone.acrothemes.com/vendor/css/wow.css" rel="stylesheet">
    <link rel="stylesheet"
href="https://megaone.acrothemes.com/vendor/css/cubeportfolio.min.css">
    <link href="https://megaone.acrothemes.com/new-agency/css/line-
awesome.min.css" rel="stylesheet">
    <!-- Style Sheet -->
    <link href="style.css" rel="stylesheet">
    <link href="https://megaone.acrothemes.com/new-agency/css/custom.css"
rel="stylesheet">


    <style>
      .logo{
        padding-top: 10px;
        height:120px;


      }
    </style>
</head>

<body data-spy="scroll" data-target=".navbar" data-offset="90">

<!-- Start Loader -->
<div class="loader" id="loader-fade">
    <div class="dot-container">
        <div class="dot dot-1"></div>
        <div class="dot dot-2"></div>
```

```
      <div class="dot dot-3"></div>
    </div>
    <svg xmlns="http://www.w3.org/2000/svg" version="1.1">
      <defs>
        <filter id="goo">
          <feGaussianBlur in="SourceGraphic" stdDeviation="10" result="blur" />
          <feColorMatrix in="blur" mode="matrix" values="1 0 0 0 0  0 1 0 0 0  0 0 1
0 0  0 0 0 21 -7"/>
        </filter>
      </defs>
    </svg>
</div>
<!-- End Loader -->

<!-- Start Header -->
<header>
    <!--Navigation-->
    <nav class="navbar navbar-top-default navbar-expand-lg navbar-simple nav-line">
      <ul class="mb-0 top-info">
        <li class="c-links d-none d-lg-block"><a href="#">+91 8979436455 </a></li>
      </ul>
      <div class="container">
        <a href="index-new-agency.html" title="Logo" class="logo">
          <!--Logo Default-->
          <img src="https://logos-download.com/wp-
content/uploads/2019/11/Indian_Railway_Logo_1-700x705.png" alt="logo"
class="logo-dark" height="100px">
        </a>
        <!--Nav Links-->
        <div class="collapse navbar-collapse" id="megaone">
          <div class="navbar-nav ml-auto">
            <a class="nav-link active scroll" href="#home-banner">Home</a>
            <a class="nav-link scroll" href="#services-sec">About</a>
```

```
                <a class="nav-link scroll" href="#portfolio-area">Work</a>
                <a class="nav-link scroll" href="#reviews">Minister</a>
                <a class="nav-link scroll" href="#contact">Contact Us</a>
            </div>
        </div>
        <!--Side Menu Button-->
        <a href="javascript:void(0)" class="sidemenu_btn" id="sidemenu_toggle">
            <span></span>
            <span></span>
            <span></span>
        </a>
    </div>
    <!--Social Icons-->
    <div class="nav-social text-white d-flex justify-content-center">
        <ul class="social-icons-simple">
            <li><a class="facebook-text-hvr" href="javascript:void(0)"><i class="fab fa-facebook-f"></i> </a> </li>
            <li><a class="twitter-text-hvr" href="javascript:void(0)"><i class="fab fa-twitter"></i> </a> </li>
            <li><a class="linkedin-text-hvr" href="javascript:void(0)"><i class="fab fa-linkedin-in"></i> </a> </li>
            <li><a class="instagram-text-hvr" href="javascript:void(0)"><i class="fab fa-instagram"></i> </a> </li>
        </ul>
    </div>
</nav>
<!--Side Nav-->
<div class="side-menu hidden">
    <div class="inner-wrapper">
        <span class="btn-close" id="btn_sideNavClose"><i></i><i></i></span>
        <nav class="side-nav w-100">
            <ul class="navbar-nav">
                <li class="nav-item">
```

```
                <a class="nav-link scroll" href="#home-banner">Home</a>
              </li>
              <li class="nav-item">
                <a class="nav-link scroll" href="#services-sec">About</a>
              </li>
              <li class="nav-item">
                <a class="nav-link scroll" href="#portfolio-area">Work</a>
              </li>
              <li class="nav-item">
                <a class="nav-link scroll" href="#reviews">Minister</a>
              </li>
              <li class="nav-item">
                <a class="nav-link scroll" href="#contact">Contact Us</a>
              </li>
            </ul>
          </nav>

          <div class="side-footer text-white w-100">
            <ul class="social-icons-simple">
                <li><a class="facebook-text-hvr" href="javascript:void(0)"><i class="fab
fa-facebook-f"></i></a></li>
                <li><a class="twitter-text-hvr" href="javascript:void(0)"><i class="fab fa-
twitter"></i></a></li>
                <li><a class="linkedin-text-hvr" href="javascript:void(0)"><i class="fab
fa-linkedin-in"></i></a></li>
                <li><a class="instagram-text-hvr" href="javascript:void(0)"><i class="fab
fa-instagram"></i></a></li>
            </ul>
                                    <p class="text-white">
                                        &copy; indianrailways.gov.in <span class="d-
inline d-lg-block">
                                        </span>
                                    </p>
```

```
                                </div>
            </div>
        </div>
        <a id="close_side_menu" href="javascript:void(0);"></a>
        <!-- End side menu -->
</header>
<!-- End Header -->

<!-- Start Banner -->
<section  id="home-banner" class="banner-area">
    <div class="container">
        <div class="row center-content">
            <div class="col-12 col-md-10 col-lg-6 offset-md-1 offset-lg-6">
                <div class="green-box">
                    <div class="box-content">
                        <h1 class="wow fadeInUp" data-wow-delay="1.2s">Welcome to
Indian</h1>
                        <h1 class="wow fadeInUp" data-wow-
delay="1.6s">Railways</h1><br>
                        <a href="#services-sec" class="scroll button wow fadeInUp" data-wow-
delay="2s"><i class="las la-angle-right"></i>Learn More</a>
                    </div>
                </div>
            </div>
        </div>
    </div>
</section>
<!-- End Banner -->

<!-- Start Services -->
<section class="services-sec" id="services-sec">
    <div class="container">
        <div class="row">
```

```
<div class="col-12 col-lg-5">
  <div class="heading-area">
    <h4 class="heading wow slideInLeft">ABOUT US<span> WHO WE ARE</span></h4>
  </div>
</div>
<div class="col-12 col-lg-7">
  <div class="image-holder wow slideInRight">
    <img src="https://images.pexels.com/photos/1658967/pexels-photo-1658967.jpeg?auto=compress&cs=tinysrgb&dpr=1&w=500" alt="service-img">
  </div>
</div>
<div class="col-12 padding-top-half">
  <ul class="services-boxes">
    <!-- Service-1 -->
    <li class="service-card left wow slideInLeft">
      <div class="icon-holder"><i class="lni lni-bulb"></i></div>
      <p class="text">The Indian Railways is the largest rail network in Asia and the world’s second-largest under one management.</p>
    </li>
    <!-- Service-2 -->
    <li class="service-card right d-block text-center wow slideInRight">
      <div class="icon-holder"><i class="lni lni-briefcase"></i></div>
      <p class="text">The first railway on Indian sub-continent ran over a stretch of 21 miles from Bombay to Thane. The idea of a railway to connect Bombay with Thane, Kalyan and with the Thal and Bhore Ghats inclines first occurred to Mr. George Clark, the Chief Engineer of the Bombay Government, during a visit to Bhandup in 1843.</p>
    </li>
    <!-- Service-3 -->
    <li class="service-card left icon-right text-center text-lg-right wow slideInLeft">
      <p class="text order-2 order-lg-1">The Indian Railways aims to be the driver of India’s economic growth and development by being safe, financially viable
```

and environmentally friendly. The focus to achieve this goal is through the resolution of key concerns such as passenger experience, zero fatality, cost, sustainability. </p>

```
                    <div class="icon-holder order-1 order-lg-2"><i class="lni lni-
heart"></i></div>
                </li>
            </ul>
        </div>
    </div>
</div>
</section>
<!-- End Services -->

<!-- Start Portfolio -->

<section class="portfolio" id="portfolio-area">
    <div id="project-sec" class="project-sec">
        <div class="projects owl-carousel owl-theme no-gutters">
            <!-- Item-1 -->
            <div class="item project-area">
                <div class="project-img order-1">
                    <img
src="https://www.hdnicewallpapers.com/Walls/Big/Vehicles/HD_Wallpaper_of_Metr
o_Train_Public_Vehicle.jpg" alt="images">
                </div>
                <div class="container">
                    <div class="project-detail text-center text-lg-left order-2">
                        <div class="row no-gutters">
                            <div class="col-12 offset-md-12 col-lg-6 animate-fade">
                                <div class="black-box">
                                <h6 class="project-heading">Railways Management System
</h6>
                                <p class="project-text">This Railway management system
database design was made based on managing Railway requirements. The system can
```

```
encode both customers and medicines' information. </p>
                    <a href="welcome.html" class="btn btn-medium btn-rounded btn-
white">Welcome</a>



                        </div>
                    </div>
                </div>
            </div>
        </div>
        <!-- Item-2 -->

    <!-- Nav Arrows -->
    <div class="project-links-left d-none d-md-block">
        <a class="customPrevBtn"><i class="las la-angle-left"></i></a>
    </div>
    <div class="project-links-right d-none d-md-block">
        <a class="customNextBtn"><i class="las la-angle-right"></i></a>
    </div>

  </div>
</section>
<!-- End Portfolio -->

<!-- Start Reviews -->
<section class="reviews-sec" id="reviews">
  <div class="container">
    <div class="row">
      <div class="col-12 col-lg-3">
        <div class="heading-area">
          <h4 class="heading wow slideInLeft">Minister of <span>Indian
```

```
Railways</span></h4>
            </div>
          </div>
          <div class="col-12 col-lg-9">
            <div class="image-holder wow slideInRight">
              <img src="https://static.toiimg.com/thumb/msid-84279466,width-1200,height-900,resizemode-4/.jpg" alt="service-img">
            </div>
          </div>
        </div>
        <div class="row">
          <div class="col-lg-12 col-md-12 col-sm-12">
            <div class="reviews-carousel owl-carousel owl-theme">
              <!-- Item-1 -->
              <div class="item">
                <div class="row no-gutters">
                  <div class="col-lg-3 col-md-12 col-sm-12 name wow fadeInLeft" data-wow-delay="400ms">
                    <div class="client-img-holder rounded-circle center-block">
                      <img src="https://upload.wikimedia.org/wikipedia/commons/thumb/9/95/Shri_Ashwini_Vaishnaw_Minister.jpg/330px-Shri_Ashwini_Vaishnaw_Minister.jpg" alt="client1">
                    </div>
                    <h5>Shri Ashwini Vaishnaw</h5>
                    <p>Minister of Railways</p>
                  </div>
                  <div class="col-lg-9 col-md-12 col-sm-12 wow fadeInLeft" data-wow-delay="400ms">
                    <div class="icon-holder"><i class="fas fa-quote-left"></i></div>
                    <p class="text">Ashwini Vaishnaw (born 18 July 1970) is an Indian politician and ex Indian Administrative Service officer currently serving as the Minister of Railways, Communications and Electronics & Information Technology in Government of India, since 8 July 2021</p>
                  </div>
```

```
                </div>
            </div>
            <!-- Item-2 -->
            <div class="item">
                <div class="row no-gutters">
                    <div class="col-lg-3 col-md-12 col-sm-12 name">
                        <div class="client-img-holder rounded-circle center-block">
                            <img src="http://loksabhadocs.nic.in/mpimage/photo/316.jpg"
alt="client2">
                        </div>
                        <h5>Shri Raosaheb Patil Danve</h5>
                        <h6>Minister of State in the Ministry of Railways</h6>
                    </div>
                    <div class="col-lg-9 col-md-12 col-sm-12">
                        <div class="icon-holder"><i class="fas fa-quote-left"></i></div>
                        <p class="text">He is known as a leader with rural roots. Danve
began his political career as a Sarpanch in 1978, becoming an MLA in 1990 & in 1995
from Bhokardan assembly constituency, and 5 time consecutive Member of parliament
since 1999, 2004, 2009, 2014, & May 2019. </p>
                    </div>
                </div>
            </div>
            <!-- Item-3 -->
            <div class="item">
                <div class="row no-gutters">
                    <div class="col-lg-3 col-md-12 col-sm-12 name">
                        <div class="client-img-holder rounded-circle center-block">
                            <img
src="https://indianrailways.gov.in/railwayboard/uploads/About_Indian_Railways/DVJ
_4451.jpg" alt="client3">
                        </div>
                        <h5>Smt. Darshana Jardosh</h5>
                        <h6>Minister of State in the Ministry of Railways</h6>
```

```
                    </div>
                    <div class="col-lg-9 col-md-12 col-sm-12">
                        <div class="icon-holder"><i class="fas fa-quote-left"></i></div>
                        <p class="text">Darshana Jardosh (born 21 January 1961) is an Indian politician and currently serving as Union State Minister of Railways and Union State Minister of Textiles.  </p>
                    </div>
                </div>
            </div>
        </div>
    </div>
</section>
<!-- End Reviews -->

<!-- Start Counter -->
<section class="counters bg-black" id="counter">
    <div class="container">
        <div class="row align-items-center">
            <div class="col-12 col-md-12 col-lg-6 wow slideInLeft" data-wow-delay=".5s"
>
                <div class="green-box">
                    <div class="box-content">
                        <h4>Interesting Facts & Figures</h4>
                        <h1>Indian Railways</h1>
                        <p>Indian Railways is the largest railways network to be operated by a single government and is the world’s third largest network with a total length of</p>
                    </div>
                </div>
            </div>
            <div class="col-12 col-md-12 col-lg-6 text-center wow slideInRight" data-wow-delay=".5s">
```

```
            <!-- Counter no.1 -->
            <div class="counter">
               <h5 class="count">127760</h5>
               <p>kms.</p>
            </div>

         </div>
      </div>
   </div>
</section>
<!-- End Counter -->

<!-- Start Contact -->
<section class="contact-sec" id="contact">
   <div class="container expand-container">
      <div class="row align-items-center">
         <div class="col-12 col-md-12 col-lg-5 wow slideInLeft" data-wow-
delay=".5s">
            <div class="heading-area">
               <h4 class="heading">Questions? <span class="d-block"> Get in
Touch</span></h4>
            </div>
            <div class="contact-details">
               <ul>
                  <li><i aria-hidden="true" class="las la-paper-
plane"></i>rajat.2023mca1033@kiet.edu or <br>ritik.2023mca1091@kiet.edu or
<br>chandresh.2023mca1034@kiet.edu</li>
                  <li><i aria-hidden="true" class="las la-phone"></i><span>+91
8979436455 or <br>7651817455 or <br>7409935964</span></li>
                  <li><i aria-hidden="true" class="las la-map-marker"></i> T/34 B
choupla Railway Colony, Bareilly</li>
               </ul>
            </div>
```

```
        </div>
        <div class="col-12 col-md-12 col-lg-7 wow slideInRight" data-wow-
delay=".5s">
            <form class="row contact-form row-padding" id="contact-form-data">
                <div class="col-12 col-lg-10" id="result"></div>
                <div class="col-12 col-lg-10">
                    <input type="text" name="userName" placeholder="Name"
class="form-control">
                    <input type="text" name="userPhone" placeholder="Contact No"
class="form-control">
                    <input type="email" name="userEmail" placeholder="Email"
class="form-control">
                    <textarea class="form-control" name="userMessage" rows="6"
placeholder="Type Your Message Here"></textarea>
                    <a href="javascript:void(0);" class="btn btn-medium btn-rounded btn-
trans rounded-pill w-100 contact_btn main-font">Submit Information</a>
                </div>
            </form>
        </div>
    </div>
</section>
<!-- End Contact -->

<!-- Start Scroll Top -->
<div class="go-top"><i class="fas fa-angle-up"></i><i class="fas fa-angle-
up"></i></div>
<!-- End Scroll Top -->

<!-- JavaScript -->
<script src="https://megaone.acrothemes.com/vendor/js/bundle.min.js"></script>
<!-- Plugin Js -->
<script src="https://megaone.acrothemes.com/vendor/js/morphext.min.js"></script>
```

```
<script src="https://megaone.acrothemes.com/vendor/js/jquery.appear.js"></script>
<script
src="https://megaone.acrothemes.com/vendor/js/jquery.fancybox.min.js"></script>
<script
src="https://megaone.acrothemes.com/vendor/js/owl.carousel.min.js"></script>
<script src="https://megaone.acrothemes.com/vendor/js/wow.min.js"></script>
<script
src="https://megaone.acrothemes.com/vendor/js/jquery.cubeportfolio.min.js"></script
>

<!-- CUSTOM JS -->
<script src="https://megaone.acrothemes.com/vendor/js/contact_us.js"></script>
<script src="https://megaone.acrothemes.com/new-agency/js/script.js"></script>

</body>
<!-- Mirrored from megaone.acrothemes.com/index-new-agency.html by HTTrack
Website Copier/3.x [XR&CO'2014], Tue, 19 Apr 2022 03:52:56 GMT -->
</html>
```

16.2 Add Train Detail Servlet

```
package com.web;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
```

```
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;



@WebServlet("/AddTrainDetail")
public class AddTrainDetail extends HttpServlet {

	protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException
	{

		try(PrintWriter out=response.getWriter()) {
		String MON,TUE,WED,THU,FRI,SAT,SUN;



			int tnum=Integer.parseInt(request.getParameter("tNum"));
			String tname=request.getParameter("tName");

			if(null==request.getParameter("MON")) {
				MON="NO";
			}else {
				MON="YES";
				}

			if(null==request.getParameter("TUE")) {
				TUE="NO";
			}else {
				 TUE="YES";
				}
			if(null==request.getParameter("WED")) {
				  WED="NO";
			}else {
```

```
            WED="YES";
        }
if(null==request.getParameter("THU")) {
            THU="NO";
}else {
             THU="YES";
        }
if(null==request.getParameter("FRI")) {
            FRI="NO";
}else {
            FRI="YES";
        }
if(null==request.getParameter("SAT")) {
            SAT="NO";
}else {
            SAT="YES";
        }
if(null==request.getParameter("SUN")) {
            SUN="NO";
}else {
            SUN="YES";
        }

String sou=request.getParameter("sou");
String souCode=request.getParameter("souCode");
String des=request.getParameter("des");
String desCode=request.getParameter("desCode");
int distance=Integer.parseInt(request.getParameter("distance"));
int days=Integer.parseInt(request.getParameter("days"));
int btStn=Integer.parseInt(request.getParameter("btStn"));
String sArrival=request.getParameter("sArrival");
String sStop=request.getParameter("sStop");
```

```
                String sDeparture=request.getParameter("sDeparture");

                String dArrival=request.getParameter("dArrival");
                int
acCoaches=Integer.parseInt(request.getParameter("acCoaches"));
                int
sleeperCoaches=Integer.parseInt(request.getParameter("sleeperCoaches"));
                int
generalCoaches=Integer.parseInt(request.getParameter("generalCoaches"));

                Class.forName("com.mysql.cj.jdbc.Driver");
                Connection con=
DriverManager.getConnection("jdbc:mysql://localhost:3306/rajat","root","1234");
                PreparedStatement ps=con.prepareStatement("insert into
train_detail value(?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?)");
                ps.setInt(1, tnum);
                ps.setString(2, tname);
                ps.setString(3, MON);
                ps.setString(4, TUE);
                ps.setString(5, WED);
                ps.setString(6, THU);
                ps.setString(7, FRI);
                ps.setString(8, SAT);
                ps.setString(9, SUN);

                ps.setString(10, sou);
                ps.setString(11, souCode);
                ps.setString(12, des);
                ps.setString(13, desCode);
                ps.setInt(14, distance);
                ps.setInt(15, days);
                ps.setInt(16, btStn);
```

```
                    ps.setString(17, sArrival);
                    ps.setString(18, sStop);
                    ps.setString(19, sDeparture);
                    ps.setString(20, dArrival);
                    ps.setInt(21, acCoaches);
                    ps.setInt(22, sleeperCoaches);
                    ps.setInt(23, generalCoaches);

                    int status = ps.executeUpdate();
                    if(status>0) {

                            RequestDispatcher
rd=request.getRequestDispatcher("dataAdded.html");
                            rd.forward(request,response);

                    }else {

                            RequestDispatcher
rd=request.getRequestDispatcher("dataNotAdded.html");
                            rd.forward(request,response);
                    }




                /* out.println("Train Number"+tnum);
                 out.println("\nTrain Name"+tname);
                 out.println("\nMon"+MON);
                 out.println("\nTue"+TUE);
                 out.println("\nWed"+WED);
                 out.println("\nThu"+THU);
                 out.println("\nFri"+FRI);
```

```
            out.println("\nSat"+SAT);
            out.println("\nSun"+SUN);
            out.println("\nSource"+sou);
            out.println("\nSource Code"+souCode);
            out.println("\nDestination"+des);
            out.println("\nDestination code"+desCode);
            out.println("\nTotal Distance"+distance);
            out.println("\nTotal Days"+days);
            out.println("\nBetween Station"+btStn);
            out.println("\nSource Arrival"+sArrival);
            out.println("\nStop time"+sStop);
            out.println("\nSource Departure time"+sDeparture);

            out.println("\nDestination Arrival"+dArrival);
            out.println("\nAC coaches"+acCoaches);
            out.println("\nSleeper Coaches"+sleeperCoaches);
            out.println("\nGeneral Coaches"+generalCoaches);
            */




        }catch(Exception e) {
                System.out.println("Exception is "+e);
        }
    }


    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException
```

```
	{
		doGet(request, response);
	}

}
```

16.3 Admin Login Servlet code:

```
package com.web;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;



@WebServlet("/LoginServlet")
public class LoginServlet extends HttpServlet {

	protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException

	{
		try(PrintWriter out=response.getWriter()) {
```

```
		String n=request.getParameter("uname");
		String p=request.getParameter("psw");

		Class.forName("com.mysql.cj.jdbc.Driver");
		Connection con=
DriverManager.getConnection("jdbc:mysql://localhost:3306/rajat","root","1234");

		PreparedStatement ps=con.prepareStatement("select uname from login
where uname=? and password=?");
		ps.setString(1, n);
		ps.setString(2, p);

		ResultSet rs=ps.executeQuery();
		if(rs.next()) {
			RequestDispatcher
rd=request.getRequestDispatcher("updateData.html");
			rd.forward(request,response);

		}else {

			RequestDispatcher
rd=request.getRequestDispatcher("AdminLogin.html");

			rd.include(request,response);
			out.println("Wrong UserName or Password...!! ");
		}
	}catch(Exception e) {
		System.out.println("Exception is "+e);
	}
	}


	protected void doPost(HttpServletRequest request, HttpServletResponse
```

```
response) throws ServletException, IOException {

		doGet(request, response);
	}

}
```

16.4 Update Data Servlet :

```
package com.web;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;



@WebServlet("/ReadyToUpdate")
public class ReadyToUpdate extends HttpServlet {
	private static final long serialVersionUID = 1L;



	protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException
	{
		try(PrintWriter out=response.getWriter()) {
```

```
                        int tnum=Integer.parseInt(request.getParameter("tNum"));
                        String tname=request.getParameter("tName");
                        String MON=request.getParameter("MON");
                        String TUE=request.getParameter("TUE");
                        String WED=request.getParameter("WED");
                        String THU=request.getParameter("THU");
                        String FRI=request.getParameter("FRI");
                        String SAT=request.getParameter("SAT");
                        String SUN=request.getParameter("SUN");

                        String sou=request.getParameter("sou");
                        String souCode=request.getParameter("souCode");
                        String des=request.getParameter("des");
                        String desCode=request.getParameter("desCode");
                        int
distance=Integer.parseInt(request.getParameter("distance"));
                        int days=Integer.parseInt(request.getParameter("days"));
                        int btStn=Integer.parseInt(request.getParameter("btStn"));
                        String sArrival=request.getParameter("sArrival");
                        String sStop=request.getParameter("sStop");
                        String sDeparture=request.getParameter("sDeparture");

                        String dArrival=request.getParameter("dArrival");
                        int
acCoaches=Integer.parseInt(request.getParameter("acCoaches"));
                        int
sleeperCoaches=Integer.parseInt(request.getParameter("sleeperCoaches"));
                        int
generalCoaches=Integer.parseInt(request.getParameter("generalCoaches"));
```

```
Class.forName("com.mysql.cj.jdbc.Driver");
Connection con=
DriverManager.getConnection("jdbc:mysql://localhost:3306/rajat","root","1234");

PreparedStatement ps=con.prepareStatement("update train_detail SET
tname=?,MON=?,TUE=?,WED=?,THU=?,FRI=?,SAT=?,SUN=?,sou=?,souCode=?,de
s=?,desCode=?,distance=?,days=?,btStn=?,sArrival=?,sStop=?,sDeparture=?,dArrival=
?,acCoaches=?,sleeperCoaches=?,generalCoaches=? where tnum=? ");


                ps.setString(1, tname);
                ps.setString(2, MON);
                ps.setString(3, TUE);
                ps.setString(4, WED);
                ps.setString(5, THU);
                ps.setString(6, FRI);
                ps.setString(7, SAT);
                ps.setString(8, SUN);

                ps.setString(9, sou);
                ps.setString(10, souCode);
                ps.setString(11, des);
                ps.setString(12, desCode);
                ps.setInt(13, distance);
                ps.setInt(14, days);
                ps.setInt(15, btStn);

                ps.setString(16, sArrival);
                ps.setString(17, sStop);
                ps.setString(18, sDeparture);
                ps.setString(19, dArrival);
                ps.setInt(20, acCoaches);
                ps.setInt(21, sleeperCoaches);
```

```
                        ps.setInt(22, generalCoaches);
                        ps.setInt(23, tnum);

                        int status = ps.executeUpdate();
                        if(status>0) {

RequestDispatcher rd=request.getRequestDispatcher("dataUpdated.html");
rd.forward(request,response);

}else {

RequestDispatcher rd=request.getRequestDispatcher("dataNotUpdated.html");
rd.forward(request,response);
}
        }catch(Exception e) {
                System.out.println("Exception is "+e);
}
                }


        protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException
        {
                doGet(request, response);
        }

}
```

16.5 Search Train Detail:

```
package com.web;

import java.io.IOException;
```

```
import java.io.PrintWriter;
import java.nio.file.FileSystemNotFoundException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import com.web.model.Train;




@WebServlet("/SearchTrainDetail")
public class SearchTrainDetail extends HttpServlet {

	protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException
	{
		try(PrintWriter out=response.getWriter()){
			int tnum=Integer.parseInt(request.getParameter("Tnumber"));

			String tname=request.getParameter("Tname");

			Class.forName("com.mysql.cj.jdbc.Driver");
```

```
Connection con= DriverManager.getConnection("jdbc:mysql://localhost:3306/rajat","root","1234");
PreparedStatement pst = con.prepareStatement( "select * from train_detail where tnum=? or tname=?" );
pst.setInt(1, tnum);
pst.setString(2, tname);

PreparedStatement ps = con.prepareStatement( "SELECT count(*) as total from train_detail where tnum=? or tname=?" );
ps.setInt(1, tnum);
ps.setString(2, tname);
ResultSet status = ps.executeQuery();


if(status.next()) {
    int t = status.getInt("total");
    if(t>0) {
        ResultSet rs = pst.executeQuery();


Train ob=new Train();

  while(rs.next()) {
    ob.setTnum(rs.getInt("tnum"));
    ob.setTname(rs.getString("tname"));
    ob.setMON(rs.getString("MON"));
    ob.setTUE(rs.getString("TUE"));
    ob.setWED(rs.getString("WED"));
    ob.setTHU(rs.getString("THU"));
    ob.setFRI(rs.getString("FRI"));
    ob.setSAT(rs.getString("SAT"));
    ob.setSUN(rs.getString("SUN"));
    ob.setSou(rs.getString("sou"));
```

```
                    ob.setSouCode(rs.getString("souCode"));
                    ob.setDes(rs.getString("des"));
                    ob.setDesCode(rs.getString("desCode"));
                    ob.setDistance(rs.getInt("distance"));
                    ob.setDays(rs.getInt("days"));
                    ob.setBtStn(rs.getInt("btStn"));
                    ob.setsArrival(rs.getString("sArrival"));
                    ob.setsStop(rs.getString("sStop"));
                    ob.setsDeparture(rs.getString("sDeparture"));
                    ob.setdArrival(rs.getString("dArrival"));
                    ob.setAcCoaches(rs.getInt("acCoaches"));
                    ob.setSleeperCoaches(rs.getInt("sleeperCoaches"));
                    ob.setGeneralCoaches(rs.getInt("generalCoaches"));


                }
            request.setAttribute("trainOb",ob);

request.getRequestDispatcher("SearchTrainDetail.jsp").forward(request, response);

                    }else {

                            RequestDispatcher
rd=request.getRequestDispatcher("TrainNotFound.html");
                                    rd.forward(request,response);
                }



            }
```

```
            }
        catch(Exception e) {
            System.out.println("Exception is "+e);
        }

        }


        protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException
        {

            doGet(request, response);
        }

}
```

16.6. Update data

```
package com.web;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
```

```
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import com.web.model.Train;


@WebServlet("/UpdateTrainDetail")
public class UpdateTrainDetail extends HttpServlet {

	protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException
	{
		try(PrintWriter out=response.getWriter()){
			int tnum=Integer.parseInt(request.getParameter("Tnumber"));

			String tname=request.getParameter("Tname");

			Class.forName("com.mysql.cj.jdbc.Driver");
			Connection con=
DriverManager.getConnection("jdbc:mysql://localhost:3306/rajat","root","1234");
			PreparedStatement pst = con.prepareStatement( "select * from
train_detail where tnum=? or tname=?" );
			pst.setInt(1, tnum);
			pst.setString(2, tname);

			PreparedStatement ps = con.prepareStatement( "SELECT count(*)
as total from train_detail where tnum=? or tname=?" );
			ps.setInt(1, tnum);
			ps.setString(2, tname);
```

```
ResultSet status = ps.executeQuery();


if(status.next()) {
         int t = status.getInt("total");
        if(t>0) {
                ResultSet rs = pst.executeQuery();


Train ob=new Train();

  while(rs.next()) {
        ob.setTnum(rs.getInt("tnum"));
        ob.setTname(rs.getString("tname"));
        ob.setMON(rs.getString("MON"));
        ob.setTUE(rs.getString("TUE"));
        ob.setWED(rs.getString("WED"));
        ob.setTHU(rs.getString("THU"));
        ob.setFRI(rs.getString("FRI"));
        ob.setSAT(rs.getString("SAT"));
        ob.setSUN(rs.getString("SUN"));
        ob.setSou(rs.getString("sou"));
        ob.setSouCode(rs.getString("souCode"));
        ob.setDes(rs.getString("des"));
        ob.setDesCode(rs.getString("desCode"));
        ob.setDistance(rs.getInt("distance"));
        ob.setDays(rs.getInt("days"));
        ob.setBtStn(rs.getInt("btStn"));
        ob.setsArrival(rs.getString("sArrival"));
        ob.setsStop(rs.getString("sStop"));
        ob.setsDeparture(rs.getString("sDeparture"));
        ob.setdArrival(rs.getString("dArrival"));
```

```
                    ob.setAcCoaches(rs.getInt("acCoaches"));
                    ob.setSleeperCoaches(rs.getInt("sleeperCoaches"));
                    ob.setGeneralCoaches(rs.getInt("generalCoaches"));


                }
            request.setAttribute("trainOb",ob);

request.getRequestDispatcher("UpdateTrainDetail.jsp").forward(request, response);

                    }else {

                            RequestDispatcher
rd=request.getRequestDispatcher("UpdateTrainNotFound.html");
                                rd.forward(request,response);
                }




                }

            }
        catch(Exception e) {
            System.out.println("Exception is "+e);
        }


        }

        protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException
        {
```

```
            doGet(request, response);
        }

}
```

16.7 Search Train Detail JSP page for retrieving data from database:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@page import="com.web.model.Train"%>
<!DOCTYPE html>
<html lang="en">

<!-- Mirrored from megaone.acrothemes.com/new-agency/standalone.html by HTTrack
Website Copier/3.x [XR&CO'2014], Tue, 19 Apr 2022 13:39:16 GMT -->
<head>
<!-- Meta Tags -->
<meta charset="utf-8">
<meta content="width=device-width, initial-scale=1, shrink-to-fit=no"
    name="viewport">
<!-- Author -->
<meta name="author" content="Themes Industry">
<!-- Description -->
<meta name="description"
    content="MegaOne is a highly creative, modern, visually stunning and Bootstrap
responsive multipurpose studio and portfolio HTML5 template with ready home page
demos.">
```

```
<!-- Page Title -->
<title>Railways Management System</title>
<!-- Favicon -->
<link
	href="https://cdn-
icons.flaticon.com/png/512/2487/premium/2487845.png?token=exp=1650693126~hm
ac=e49355c3d0e3f3c151d2db02e8b8d06e"
	rel="icon">
<!--<link href="https://megaone.acrothemes.com/vendor/img/favicon.ico" rel="icon">
-->
<!-- Bundle -->
<link rel="stylesheet"
	href="https://megaone.acrothemes.com/vendor/css/bundle.min.css">
<!-- Revolution Slider CSS Files -->
<link rel="stylesheet"
	href="https://megaone.acrothemes.com/vendor/css/revolution-settings.min.css">
<!-- Plugin Css -->
<link href="https://megaone.acrothemes.com/vendor/css/LineIcons.min.css"
	rel="stylesheet">
<link
	href="https://megaone.acrothemes.com/vendor/css/jquery.fancybox.min.css"
	rel="stylesheet">
<link
	href="https://megaone.acrothemes.com/vendor/css/owl.carousel.min.css"
	rel="stylesheet">
<link href="https://megaone.acrothemes.com/vendor/css/wow.css"
	rel="stylesheet">
<link rel="stylesheet"
	href="https://megaone.acrothemes.com/vendor/css/cubeportfolio.min.css">
<link
	href="https://megaone.acrothemes.com/new-agency/css/line-awesome.min.css"
	rel="stylesheet">
<!-- Style Sheet -->
<link href="Addstyle.css" rel="stylesheet">
<link href="https://megaone.acrothemes.com/new-agency/css/custom.css"
	rel="stylesheet">
<style>
.logo {
	padding-top: 10px;
	height: 70px;
}
```

```
</style>
</head>

<body>

        <!-- Start Loader -->
        <div class="loader" id="loader-fade">
                <div class="dot-container">
                        <div class="dot dot-1"></div>
                        <div class="dot dot-2"></div>
                        <div class="dot dot-3"></div>
                </div>
                <svg xmlns="http://www.w3.org/2000/svg" version="1.1">
         <defs>
            <filter id="goo">
               <feGaussianBlur in="SourceGraphic" stdDeviation="10"
                                result="blur" />
               <feColorMatrix in="blur" mode="matrix"
                                values="1 0 0 0 0  0 1 0 0 0  0 0 1 0 0  0 0 0 21 -7" />
            </filter>
         </defs>
      </svg>
        </div>
        <!-- End Loader -->
        <!-- Start Header -->
        <header>
                <!--Navigation-->
                <nav
                        class="navbar navbar-top-default navbar-expand-lg navbar-simple
nav-line">
                        <ul class="mb-0 top-info">
                                <li class="c-links d-none d-lg-block"><a href="#"> +91
                                        8979436455 </a></li>
                        </ul>
                        <div class="container">
                                <a          href="index-new-agency.html"          title="Logo"
class="logo"> <!--Logo Default-->
                                        <img
                                        src="https://logos-download.com/wp-
content/uploads/2019/11/Indian_Railway_Logo_1-700x705.png"
                                        alt="logo" class="logo logo-dark">
```

```
                        </a>
                        <!--Nav Links-->
                        <div class="collapse navbar-collapse" id="megaone">
                            <div class="navbar-nav ml-auto">
        <a class="nav-link" href="index.html#home-banner">Home</a>
<a class="nav-link" href="index.html#services-sec">About</a>
<a class="nav-link" href="index.html#portfolio-area">Work</a>
 <a class="nav-link " href="index.html#reviews">Minister</a>
<a class="nav-link" href="index.html#contact">Contact Us</a>
                            </div>
                        </div>
                        <!--Side Menu Button-->
                        <a href="javascript:void(0)" class="sidemenu_btn"
                            id="sidemenu_toggle">                    <span></span>
<span></span> <span></span>
                        </a>
                    </div>
                </nav>
                <!--Side Nav-->
                <div class="side-menu hidden">
                    <div class="inner-wrapper">
<span class="btn-close" id="btn_sideNavClose"><i></i><i></i></span>
                <nav class="side-nav w-100">
                        <ul class="navbar-nav">
                            <li class="nav-item"><a class="nav-link"
                                href="index.html#home-
banner">Home</a></li>
                            <li class="nav-item"><a class="nav-link"
                                href="index.html#services-
sec">About</a></li>
                            <li class="nav-item"><a class="nav-link"
                                href="index.html#portfolio-
area">Work</a></li>
                            <li class="nav-item"><a class="nav-link "

        href="index.html#reviews">Minister</a></li>
                            <li class="nav-item"><a class="nav-link"
                                href="index.html#contact">Contact
Us</a></li>
                        </ul>
                    </nav>
```

```
                        <div class="side-footer text-white w-100">
                            <ul class="social-icons-simple">
<li><a class="facebook-text-hvr" href="javascript:void(0)">
        <i class="fab fa-facebook-f"></i>
</a></li>
<li><a class="twitter-text-hvr" href="javascript:void(0)">
                    <i class="fab fa-twitter"></i>
                </a></li>
                                    <li><a                    class="linkedin-text-hvr"
href="javascript:void(0)">
                                            <i class="fab fa-linkedin-in"></i>
                                    </a></li>
                                    <li><a                  class="instagram-text-hvr"
href="javascript:void(0)">
                                            <i class="fab fa-instagram"></i>
                                    </a></li>
                                </ul>
                                <p class="text-white">
                                    &copy; indianrailways.gov.in <span class="d-
inline d-lg-block">
                                    </span>
                                </p>
                            </div>
                        </div>
                    </div>
                    <a id="close_side_menu" href="javascript:void(0);"></a>
                    <!-- End side menu -->
                </header>
                <!-- End Header -->
                <!-- Start Banner Section -->
                <section class="page-title stand-banner">
                    <div class="bg-overlay bg-black opacity-6"></div>
                    <div class="container">
                        <div class="row">
                            <form
                                class="row contact-form add-form">
                                <br />
                                <%
                                Object p = request.getAttribute("trainOb");
                                Train ob = (Train) p;
```

```
                        %>
                        <table class=".table-borderless" style="vertical-align: bottom"
                            border="0">
                            <tr>
                                <td colspan="7"><h2 class="hide-cursor wow fadeInUp"
                                        data-wow-delay="1.2s">Train Details</h2></td>
                            </tr>
                            <tr>
                                <td colspan="2"><label class="form-control">Train
                                        Number</label></td>
                                <td colspan="5"><input type="number" name="tNum" value=<%out.println(ob.getTnum()); %>
                                        class="form-control" /></td>
                            </tr>
                            <tr>
                                <td colspan="2"><label class="form-control">Train
                                        Name</label></td>
                                <td colspan="5"><input type="text" name="tName" value=<%String tname=ob.getTname(); out.println(tname); %> class="form-control" /></td>
                            </tr>
                            <tr>
                                <td colspan="7"><label class="form-control">RUNS ON</label></td>
                            </tr>
                            <tr>
                                <td>MON</td>
                                <td>TUE</td>
                                <td>WED</td>
                                <td>THU</td>
                                <td>FRI</td>
                                <td>SAT</td>
                                <td>SUN</td>
                        </tr>
<tr><td><input type="text" name="MON" value=<%out.println(ob.getMON()); %>
                                        class="form-control" /></td>
```

```
<td><input type="text" name="TUE" value=<%out.println(ob.getTUE()); %>
                                                    class="form-control" /></td>
td><input type="text" name="WED" value=<%out.println(ob.getWED()); %>
                                                    class="form-control" /></td>
<td><input type="text" name="THU" value=<%out.println(ob.getTHU()); %>
                                                    class="form-control" /></td>
<td><input type="text" name="FRI" value=<%out.println(ob.getFRI()); %>
                                                    class="form-control" /></td>
<td><input type="text" name="SAT" value=<%out.println(ob.getSAT()); %>
<td><input type="text" name="SUN" value=<%out.println(ob.getSUN()); %>
                                                    class="form-control" /></td>
                                            </tr>
                                        </table>
                                        <table>

                                            <tr>
                                                <td    colspan="2"><label    class="form-
control">Source
                                                        Station</label></td>
                                                <td     colspan="5"><input     type="text"
name="sou" value=<%out.println(ob.getSou()); %>
                                                    class="form-control" /></td>
                                            </tr>
                                            <tr>
                                                <td    colspan="2"><label    class="form-
control">Source
                                                        Station Code</label></td>
                                                <td     colspan="5"><input     type="text"
name="souCode" value=<%out.println(ob.getSouCode()); %>
                                                    class="form-control" /></td>
                                            </tr>
                                            <tr>
                                                <td    colspan="2"><label    class="form-
control">Destination
                                                        Station</label></td>
                                                <td     colspan="5"><input     type="text"
name="des" value=<%out.println(ob.getDes()); %>
                                                    class="form-control" /></td>
                                            </tr>
                                            <tr>
                                                <td    colspan="2"><label    class="form-
```

```
control">Destination
                                                    Station Code</label></td>
                                            <td colspan="5"><input type="text"
name="desCode" value=<%out.println(ob.getDesCode()); %>
                                                    class="form-control" /></td>
                                        </tr>
                                        <tr>
                                            <td colspan="2"><label class="form-
control">Total
                                                    Travelling
Distance</label></td>
                                            <td colspan="5"><input type="number"
name="distance"

        value=<%out.println(ob.getDistance()); %> class="form-control" /></td>
                                        </tr>
                                        <tr>
<td colspan="2"><label class="form-control">Total
                                                    Travelling
Days</label></td>
                                            <td colspan="5"><input type="number"
name="days" value=<%out.println(ob.getDays()); %>
                                                    class="form-control" /></td>
                                        </tr>
                                        <tr>
                                            <td colspan="2"><label class="form-
control">Stations
                                                    between </label></td>
                                            <td colspan="5"><input type="number"
name="btStn" value=<%out.println(ob.getBtStn()); %>
                                                    class="form-control" /></td>
                                        </tr>
                                        <tr>
                                            <td colspan="2"><label class="form-
control">Source
                                                    Arrival Time</label></td>
<td colspan="5"><input type="time" name="sArrival"
value=<%out.println(ob.getsArrival()); %>
                                                    class="form-control" /></td>
                                        </tr>
                                        <tr>
```

```
<td colspan="2"><label class="form-control">Source
                                                    Stop Time</label></td>
<td colspan="5"><input type="time" name="sStop"
value=<%out.println(ob.getsStop()); %>
                                                    class="form-control" /></td>
                                            </tr>
                                            <tr>
<td colspan="2"><label class="form-control">Source
                                                    Departure Time</label></td>
<td colspan="5"><input type="time" name="sDeparture"

        value=<%out.println(ob.getsDeparture()); %> class="form-control" /></td>
                                            </tr>
                                            <tr>
                                                <td colspan="2"><label class="form-
control">Destination
                                                    Arrival Time</label></td>
                                                <td colspan="5"><input type="time"
name="dArrival" value=<%out.println(ob.getdArrival()); %>
                                                    class="form-control" /></td>
                                            </tr>
                                            <tr>
<td colspan="2"><label class="form-control">Number of A.C. Coaches</label></td>
<td colspan="5"><input type="number" name="acCoaches"
value=<%out.println(ob.getAcCoaches()); %> class="form-control" /></td>
                                            </tr>
                                            <tr>
<td colspan="2"><label class="form-control">Number
                                                    of Sleeper
Coaches</label></td>
<td colspan="5"><input type="number" name="sleeperCoaches"

        value=<%out.println(ob.getSleeperCoaches()); %> class="form-control" /></td>
                                            </tr>
                                            <tr>
        <td colspan="2"><label class="form-control">Numbe of General
Coaches</label></td>
<td colspan="5"><input type="number" name="generalCoaches"

        value=<%out.println(ob.getGeneralCoaches()); %> class="form-control" /></td>
                                            </tr>
```

```
                                        <tr>
                    <td colspan="2"><a href="SearchTrainDetail.html" class="btn btn-
medium btn-rounded btn-white">Search Another Train</a></td>
        <td colspan="5"><a href="updateData.html"
                                                        class="btn btn-medium btn-rounded
btn-white">&GoTo DashBord--></a></td>
                                        </tr>

                                    </table></form>
                    </div>
                </div>
        </section>
        <!-- End Banner Section -->
        <!-- Start Scroll Top -->
        <div class="go-top">
                <i class="fas fa-angle-up"></i><i class="fas fa-angle-up"></i>
        </div>
        <!-- End Scroll Top -->
        <!-- JavaScript -->
        <script
src="https://megaone.acrothemes.com/vendor/js/bundle.min.js"></script>
        <!-- Plugin Js -->
        <script
src="https://megaone.acrothemes.com/vendor/js/morphext.min.js"></script>
        <script
src="https://megaone.acrothemes.com/vendor/js/jquery.appear.js"></script>
        <script

        src="https://megaone.acrothemes.com/vendor/js/jquery.fancybox.min.js"></scri
pt>
        <script

        src="https://megaone.acrothemes.com/vendor/js/owl.carousel.min.js"></script>
        <script src="https://megaone.acrothemes.com/vendor/js/wow.min.js"></script>
        <script

        src="https://megaone.acrothemes.com/vendor/js/jquery.cubeportfolio.min.js"></
script>

        <!-- CUSTOM JS -->
        <script src="https://megaone.acrothemes.com/vendor/js/contact_us.js"></script>
```

```
    <script src="https://megaone.acrothemes.com/new-agency/js/script.js"></script>

</body>

<!-- Mirrored from megaone.acrothemes.com/new-agency/standalone.html by HTTrack Website Copier/3.x [XR&CO'2014], Tue, 19 Apr 2022 13:39:16 GMT -->
</html>
```

16.8 Delete Train Detail:

```
<!DOCTYPE html>
<html lang="en">


<!-- Mirrored from megaone.acrothemes.com/new-agency/standalone.html by HTTrack Website Copier/3.x [XR&CO'2014], Tue, 19 Apr 2022 13:39:16 GMT -->
<head>
<!-- Meta Tags -->
<meta charset="utf-8">
<meta content="width=device-width, initial-scale=1, shrink-to-fit=no"
    name="viewport">
<!-- Author -->
<meta name="author" content="Themes Industry">
<!-- Description -->
<meta name="description"
    content="MegaOne is a highly creative, modern, visually stunning and Bootstrap responsive multipurpose studio and portfolio HTML5 template with ready home page demos.">
<!-- Page Title -->
<title>Railways Management System</title>
<!-- Favicon -->
<link
    href="https://cdn-icons.flaticon.com/png/512/2487/premium/2487845.png?token=exp=1650693126~hmac=e49355c3d0e3f3c151d2db02e8b8d06e"
    rel="icon">
<!--<link href="https://megaone.acrothemes.com/vendor/img/favicon.ico" rel="icon">  -->
<!-- Bundle -->
<link rel="stylesheet"
    href="https://megaone.acrothemes.com/vendor/css/bundle.min.css">
```

```
<!-- Revolution Slider CSS Files -->
<link rel="stylesheet"
	href="https://megaone.acrothemes.com/vendor/css/revolution-settings.min.css">
<!-- Plugin Css -->
<link href="https://megaone.acrothemes.com/vendor/css/LineIcons.min.css"
	rel="stylesheet">
<link
	href="https://megaone.acrothemes.com/vendor/css/jquery.fancybox.min.css"
	rel="stylesheet">
<link
	href="https://megaone.acrothemes.com/vendor/css/owl.carousel.min.css"
	rel="stylesheet">
<link href="https://megaone.acrothemes.com/vendor/css/wow.css"
	rel="stylesheet">
<link rel="stylesheet"
	href="https://megaone.acrothemes.com/vendor/css/cubeportfolio.min.css">
<link
	href="https://megaone.acrothemes.com/new-agency/css/line-awesome.min.css"
	rel="stylesheet">
<!-- Style Sheet -->
<link href="style.css" rel="stylesheet">
<link href="https://megaone.acrothemes.com/new-agency/css/custom.css"
	rel="stylesheet">
<style>
.logo {
	padding-top: 10px;
	height: 120px;
}
</style>
</head>

<body>

	<!-- Start Loader -->
	<div class="loader" id="loader-fade">
		<div class="dot-container">
```

```
                    <div class="dot dot-1"></div>
                    <div class="dot dot-2"></div>
                    <div class="dot dot-3"></div>
                </div>
                <svg xmlns="http://www.w3.org/2000/svg" version="1.1">
    <defs>
      <filter id="goo">
        <feGaussianBlur in="SourceGraphic" stdDeviation="10"
                        result="blur" />
        <feColorMatrix in="blur" mode="matrix"
                        values="1 0 0 0 0  0 1 0 0 0  0 0 1 0 0  0 0 0 21 -7" />
      </filter>
    </defs>
  </svg>
        </div>
        <!-- End Loader -->

        <!-- Start Header -->
        <header>
                <!--Navigation-->
                <nav
                        class="navbar navbar-top-default navbar-expand-lg navbar-simple nav-line">
                        <ul class="mb-0 top-info">
                                <li class="c-links d-none d-lg-block"><a href="#">+91
                                                8979436455 </a></li>
                        </ul>
                        <div class="container">
                                <a href="index-new-agency.html" title="Logo" class="logo"> <!--
Logo Default-->
                                        <img
                                        src="https://logos-download.com/wp-
content/uploads/2019/11/Indian_Railway_Logo_1-700x705.png" alt="logo" class="logo-dark"
height="100px">
                                </a>
                                <!--Nav Links-->
                                <div class="collapse navbar-collapse" id="megaone">
                                        <div class="navbar-nav ml-auto">
```

```
                                        <a class="nav-link" href="index.html#home-
banner">Home</a> <a
                                            class="nav-link" href="index.html#services-
sec">About</a> <a
                                            class="nav-link" href="index.html#portfolio-
area">Work</a> <a
                                            class="nav-link "
href="index.html#reviews">Minister</a> <a
                                            class="nav-link"
href="index.html#contact">Contact Us</a>
                                    </div>
                                </div>
                                <!--Side Menu Button-->
                                <a href="javascript:void(0)" class="sidemenu_btn"
                                    id="sidemenu_toggle"> <span></span> <span></span>
<span></span>
                                </a>
                            </div>
                            <!--Social Icons-->
                            <div class="nav-social text-white d-flex justify-content-center">
                                <ul class="social-icons-simple">
                                    <li><a class="facebook-text-hvr" href="javascript:void(0)"><i
                                            class="fab fa-facebook-f"></i> </a></li>
                                    <li><a class="twitter-text-hvr" href="javascript:void(0)"><i
                                            class="fab fa-twitter"></i> </a></li>
                                    <li><a class="linkedin-text-hvr" href="javascript:void(0)"><i
                                            class="fab fa-linkedin-in"></i> </a></li>
                                    <li><a class="instagram-text-hvr" href="javascript:void(0)"><i
                                            class="fab fa-instagram"></i> </a></li>
                                </ul>
                            </div>
                        </nav>
                        <!--Side Nav-->
                        <div class="side-menu hidden">
                            <div class="inner-wrapper">
                                <span class="btn-close"
id="btn_sideNavClose"><i></i><i></i></span>
                                <nav class="side-nav w-100">
```

```
                        <ul class="navbar-nav">
                            <li class="nav-item"><a class="nav-link"
                                    href="index.html#home-
banner">Home</a></li>
                            <li class="nav-item"><a class="nav-link"
                                    href="index.html#services-sec">About</a></li>
                            <li class="nav-item"><a class="nav-link"
                                    href="index.html#portfolio-
area">Work</a></li>
                            <li class="nav-item"><a class="nav-link "
                                    href="index.html#reviews">Minister</a></li>
                            <li class="nav-item"><a class="nav-link"
                                    href="index.html#contact">Contact Us</a></li>
                        </ul>
                    </nav>

                    <div class="side-footer text-white w-100">
                        <ul class="social-icons-simple">
                            <li><a class="facebook-text-hvr"
href="javascript:void(0)"><i
                                        class="fab fa-facebook-f"></i></a></li>
                            <li><a class="twitter-text-hvr"
href="javascript:void(0)"><i
                                        class="fab fa-twitter"></i></a></li>
                            <li><a class="linkedin-text-hvr"
href="javascript:void(0)"><i
                                        class="fab fa-linkedin-in"></i></a></li>
                            <li><a class="instagram-text-hvr"
href="javascript:void(0)"><i
                                        class="fab fa-instagram"></i></a></li>
                        </ul>
                        <p class="text-white">
                            &copy; indianrailways.gov.in <span class="d-inline d-
lg-block">
                            </span>
                        </p>
                    </div>
                </div>
```

```
            </div>
            <a id="close_side_menu" href="javascript:void(0);"></a>
            <!-- End side menu -->
        </header>
        <!-- End Header -->

        <!-- Start Banner Section -->
        <section class="page-title stand-banner">
            <div class="bg-overlay bg-black opacity-6"></div>
            <div class="container">
                <div class="row">
                    <div class="col-12 col-md-10 col-lg-6 offset-md-1 offset-lg-6">
                        <div class="green-box">
                            <div class="box-content">
                            <form action="DeleteTrainDetail" method="post">
                                <h2 class="hide-cursor wow fadeInUp" data-
wow-delay="1.2s">Delete Train Details</h2>
                                <div class="page-breadcrumb link wow
fadeInUp" data-wow-delay="1.6s">
                                    <h6 class="hide-cursor wow fadeInUp"
data-wow-delay="1.2s" style="color:White;">Enter the Train number:</h6>  <input type="text"
id="Tnumber" Value="00000" name="Tnumber" >
                                    <h5 style="color:White;">OR</h5>
                                    <h6 class="hide-cursor wow fadeInUp"
data-wow-delay="1.2s" style="color:White;">Enter the Train name:</h6>    <input type="text"
id="Tname" name="Tname" > <br>



                                     <input type="submit"  value="Submit"
class="btn btn-medium btn-rounded btn-white"><br>
                                     <br>
                                    <input class="btn btn-medium btn-
rounded btn-white" type="reset"><br>
                                    <a href="updateData.html"
style="color:White;">Go To DashBord--></a>
                                </div>
                                </form>
                            </div>
```

```
                                </div>
                            </div>
                        </div>
                </div>
        </section>
        <!-- End Banner Section -->




        <!-- Start Scroll Top -->
        <div class="go-top">
                <i class="fas fa-angle-up"></i><i class="fas fa-angle-up"></i>
        </div>
        <!-- End Scroll Top -->

        <!-- JavaScript -->
        <script src="https://megaone.acrothemes.com/vendor/js/bundle.min.js"></script>
        <!-- Plugin Js -->
        <script src="https://megaone.acrothemes.com/vendor/js/morphext.min.js"></script>
        <script src="https://megaone.acrothemes.com/vendor/js/jquery.appear.js"></script>
        <script
                src="https://megaone.acrothemes.com/vendor/js/jquery.fancybox.min.js"></script>
        <script
                src="https://megaone.acrothemes.com/vendor/js/owl.carousel.min.js"></script>
        <script src="https://megaone.acrothemes.com/vendor/js/wow.min.js"></script>
        <script

        src="https://megaone.acrothemes.com/vendor/js/jquery.cubeportfolio.min.js"></script>

        <!-- CUSTOM JS -->
        <script src="https://megaone.acrothemes.com/vendor/js/contact_us.js"></script>
        <script src="https://megaone.acrothemes.com/new-agency/js/script.js"></script>
```

</body>

<!-- Mirrored from megaone.acrothemes.com/new-agency/standalone.html by HTTrack Website Copier/3.x [XR&CO'2014], Tue, 19 Apr 2022 13:39:16 GMT -->
</html>

17. System Analysis:

System analysis is a process of gathering and interpreting facts, diagnosing problems and the information about the Railway Management system to recommend improvements on the system.

It is a problem solving activity that requires intensive communication between the system users and system developers. System analysis or study is an important phase of any system development process. The system is studied to the minutest detail and analyzed.

The system analyst plays the role of the interrogator and dwells deep into the working of the present system. The system is viewed as a whole and the input to the system are identified. The outputs from the organizations are traced to the various processes.

System analysis is concerned with becoming aware of the problem, identifying the relevant and decisional variables, analyzing and synthesizing the various factors and determining an optimal or at least a satisfactory solution or program of action. A detailed study of the process must be made by various techniques like interviews, questionnaires etc.

The data collected by these sources must be scrutinized to arrive to a conclusion. The conclusion is an understanding of how the system functions. This system is called the existing system. Now the existing system is subjected to close study and problem areas are identified. The designer now functions as a problem solver and tries to sort out the difficulties that the enterprise faces.

The solutions are given as proposals. The proposal is then weighed with the existing system

analytically and the best one is selected. The proposal is presented to the user for an endorsement by the user. The proposal is reviewed on user request and suitable changes are made.

Preliminary study is the process of gathering and interpreting facts, using the information for further studies on the system. Preliminary study is problem solving activity that requires intensive communication between the system users and system developers. It does various feasibility studies.

In these studies a rough figure of the system activities can be obtained, from which the decision about the strategies to be followed for effective system study and analysis can be take

Existing System of Railway Management System:

In the existing system the exams are done only manually but in proposed system we have to computerize the exams using this application.

- Lack of security of data.
- More man power.
- Time consuming.
- Consumes large volume of pare work.
- Needs manual calculations.
- No direct role for the higher officials

Proposed System of Railway Management System:

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system.

The system provides proper security and reduces the manual work.

- Security of data.
- Ensure data accuracy's.
- Proper control of the higher officials.
- Minimize manual data entry.
- Minimum time needed for the various processing.
- Greater efficiency.
- Better service.
- User friendliness and interactive.
- Minimum time

18.Conclusion

Our project is only a humble venture to satisfy the needs to manage their project work. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the school. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

At the end it is concluded that we have made effort on following points…

- A description of the background and context of the project and its relation to work already done in the area.
- Made statement of the aims and objectives of the project.
- We define the problem on which we are working in the project.
- We describe the requirement Specifications of the system and the actions that can be done on these things.
- We understand the problem domain and produce a model of the system, which describes operations that can be performed on the system.
- We included features and operations in detail, including screen layouts.
- We designed user interface and security issues related to system.

19. Future Scope

In a nutshell, it can be summarized that the future scope of the project circles around maintaining information regarding:

- We can add printer in future.
- We can give more advance software for Railway Management system including more facilities
- We will host the platform on online servers to make it accessible worldwide
- Integrate multiple load balancers to distribute the loads of the system
- Create the master and slave database structure to reduce the overload of the database queries
- Implement the backup mechanism for taking backup of codebase and database on regular basis on different servers

The above mention points are the enhancements which can be done to increase the applicability and usage of this project. Here we can maintain the records of Train and Ticket. Also, as it can be seen that now-a-days the players are versatile, i.e. so there is a scope for introducing a method to maintain the Railway Reservation System. Enhancements can be done to maintain all the Train, Ticket, Booking, Customer, Payment.

We have left all the options open so that if there is any other future requirement in the system by the user for the enhancement of the system then it is possible to implement them. In the last we would like to thanks all the persons involved in the development of the system directly or indirectly. We hope that the project will serve its purpose for which it is develop there by underlining success of process.

20. Limitations

Although I have put my best efforts to make the software flexible, easy to operate but limitations cannot be ruled out even by me. Though the software presents a broad range of options to its users some intricate options could not be covered into it; partly because of logistic and partly due to lack of sophistication. Paucity of time was also major constraint, thus it was not possible to make the software foolproof and dynamic. Lack of time also compelled me to ignore some part such as storing old result of the candidate etc.

Considerable efforts have made the software easy to operate even for the people not related to the field of computer but it is acknowledged that a layman may find it a bit problematic at the first instance. The user is provided help at each step for his convenience in working with the software.

List of limitations which is available in the Railway Management System:

- Excel export has not been developed for Train, Ticket due to some criticality.
- The transactions are executed in off-line mode, hence on-line data for Booking, Customer capture and modification is not possible.
- Off-line reports of Train, Payment, Booking cannot be generated due to batch mode execution.

21. References & Bibliography

- Google for problem solving
- http://www.javaworld.com/
- Database Programming
- Java and Software Design Concepts
- https://www.tutorialspoint.com/java/
- http://www.javatpoint.com/java-tutorials
- http://www.wampserver.com/en/
- http://www.JSP.net/
- http://www.tutorialspoint.com/mysql/
- httpd.apache.org/docs/2.0/misc/tutorials.html