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This is to certify that

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Have submitted the Mini-project entitled “**RAILWAY RESERVATION SYSTEM**” as per the requirement of the syllabus of the DEGREE (INFORMATION TECHNOLOGY) course, according to the rules laid down by the DTE, during the academic year 2020-21 in view of fulfilment of the degree in Information Technology.

Date: 2 April 2021

Signature of Internal Examiner

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ABSTRACT

The Indian Railways (IR) carries about 5.5 lakhs passengers in reserved accommodation every day. The Computerised Passenger Reservation System (PRS) facilitates the booking and cancellation of tickets from any of the 4000 terminals (i.e PRS booking window all over the countries). These tickets can be booked or cancelled for journeys commencing in any part of India and ending in any other part, with travel time as long as 72 hours and distance up to several thousand kilometres.

In the given project we will be developing which will help users to find train details, book and cancel tickets and the exact rates of their tickets to the desired destination.

With the help of online booking people can book their tickets online through internet, sitting in their home by a single click of mouse. Using their credit cards people can easily get their tickets done within minutes.

ACKNOWLEDGEMENT

Around a period of months. I was working hard to achieve my goal. I have strived hard to complete my assignment. My goal was to give an exceptional and appreciating performance. Though there were lots of problems I had faced but I moved on and on.

Firstly, I would like to thank our GUIDE to provide me the opportunity to do such an assignment. I am very much thankful to my Module Lecturer. For been uninterrupted support in the development of the project and have enabled me to complete my assignment on the then period of time. She was always there to listen and to give advice and she also taught me how to express my ideas and views professionally. I greatly acknowledge the effective contribution of Head of department, who encouraged me and provided me with all kinds of conveniences including Library and Computer Lab. I would also like to thank all our friends, family and everybody else who helped me anyways in our assignment.

Last but not the least I want to acknowledge all my friends and colleagues who supported me in my assignment.

TABLE OF CONTENTS

SR.NO	CONTENT	PAGE.NO
1	Project Introduction	5
2	Problem Definition	6
3	Scope of Project	7
4	Background Study	8
5	Objectives of project	9
6	System Design 6.1 E-R Diagram	10
7	Implementation	11
8	Conclusion & Future scope	15
9	References	16

PROJECT INTRODUCTION

This project will help the user to find the information about the passenger, train or ticket & also this project will help the user to get the ticket of the particular train. In this project as you fill the details such as passenger no, name, age, destination. The details filled would be printed and also saved at the backend in the database form. Our website has various kinds of information that helps regarding booking of tickets via railways .Users will be able to search the train availability ,the exact fare ,the arrival and departure time of the train and they can also book the ticket by using the debit ,credit or master card and after booking the ticket if the user want to cancel it then they can easily do it also.

Railway passengers frequently need to know about their ticket reservation status, ticket availability on a particular train or for a place, train arrival or departure details, special trains etc. Customer information centres at the railway stations are unable to serve such queries at peak periods. The number of the reservation counters available to the passengers and customers are very less. On most of the reservation systems there are long queues, so it takes a long time for any individual to book the ticket. As now there are no call centres facilities available to solve the queries of the passengers.

The online railway ticket reservation system aims to develop a web application which aims at providing trains details, trains availability, as well as the facility to book ticket in online for customers.

So, we thought of developing a web-based application which would provide the users all these facilities from his terminal only as well as help them in booking their tickets. The Application was to be divided into two parts namely the user part, and the administrator part. And each of these has their corresponding features.

We decided to give the name of the website “RAILWAY RESEVATION SYSTEM”.

The online railway ticket reservation system is developed using JAVA as the backend.

PROJECT DEFINATION

Our micro project is based on railway ticket reservation system. In this project we are creating the program in which we will display online booking of ticket by calculating the ticket. We are creating an online reservation ticket program in which we are finding the different attributes of ticket and also, we are creating a database and connect the database with the help of adbc connection. Online railway ticket reservation is an online ticket booking website, which is capable of booking ticket and search the train availability. This website is mainly created to fulfil the following requirements, it comprises of the following properties: -

- A central database that will store all information.
 - An online website that will provide real- time information about the availability of tickets their prices.
 - Every registered user is able to view his booking id that has been made in his/her name.
 - Every registered user can change his password any time he wants to change.
 - Every guest user can search train availability, price of the ticket, arrival and departure time, distance between source and destination etc.
 - Every registered user has the facilities to print his ticket any time he wishes.
 -
- Administration login
- In admin mode the administrator can make changes in train details.
 - He can also view all booking that has been made by different users.
 - The booking window contains all the facilities at one place, the user can simply login to his account and can book his ticket.

SCOPE OF THE PROJECT

- It reserves and cancel seats of passengers.
- It contains information about the stations.
- It contains information about the trains.
- It contains information about the passenger.
- It contains the details of reservation fare. It makes entries for reservation tickets.

BACKGROUND STUDY

In the existing system reservation is done manually but a user at railway reservation can customers. User has to wait for a long time in the queue to get the reservation like this wasting the time of user and for this lot of Manpower is required and lot of paper work is also required. So as to consume our precious time we have created such a project in which not only the time but also the manpower will be reduced as the online booking of railway reservation does not requires any kind of ques to makes manually.

In this we have studied about the java programming language and the basics of command prompt and java adbc connection.

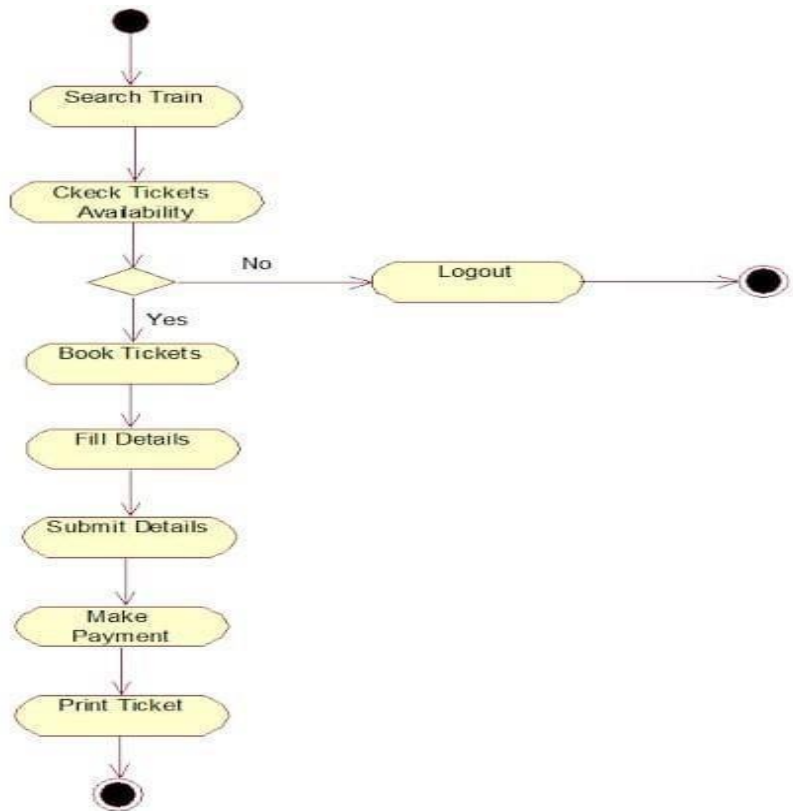
OBJECTIVES

The objective of the online railway ticket reservation system Project is to design software to fully automate the process of issuing a railway ticket.

- To create a database of the trains
- To search the trains it's arrival and departure time, distance between source and destination.
- To check the availability of the ticket.
- To calculate fare.
- To book the ticket.
- To cancel the ticket if necessary.

SYSTEM DESIGN

FLOW CHART



IMPLEMENTATION OF CODE

```
Code import java.sql. *;
import javax. swing. *;
import java.awt. *;
import java.awt. event. *;

public class ticket1 extends JFrame implements ActionListener

{
JLabel l1,l2,l3,l4,l5;
JTextField t1,t2,t3;
JComboBox jcb;
JButton bl;
Container cnt;

ticket1()
{

l1=new JLabel("PNRNO"); l2=new
JLabel("name"); l3=new
JLabel("age"); l4=new JLabel ("select
destination");
l5=new JLabel ("From Thane");

jcb=new JComboBox ();
jcb. addItem("CST");
jcb.addItem("Karjat");
jcb.addItem("Panvel");

t1=new      JTextField(8);
t2=new      JTextField(8);
t3=new      JTextField(8);
bl=new
JButton("submit");

cnt=getContentPane();
cnt.setLayout(new FlowLayout());

cnt.add(l1); cnt.add(t1);
cnt.add(l2); cnt.add(t2);
cnt.add(l3); cnt.add(t3);
cnt.add(l4); cnt.add(jcb);
```

```

cnt.add(bl);

bl.addActionListener(this);
}

public void actionPerformed(ActionEvent e)
{

Connection con;

try
{

Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
}
catch (Exception el)
{} try
{
con=DriverManager.getConnection("jdbc:odbc:abc");
PreparedStatement ps=con.prepareStatement("insert into train values(?,?,?)");

//using DSN-less connection
c = DriverManager.getConnection( "jdbc:odbc:Driver={Driver
(*.xls)};DBQ=C:/Documents and C:\Users\Admin\Desktop\ticket1.xlsx");

Statement st=con.createStatement();
int pno=Integer.parseInt(t1.getText());

String pname =t2.getText();

int page=Integer.parseInt(t3.getText());

ps.setInt(1,pno);
ps.setString(2,pname);
ps.setInt(3,page); ps.executeUpdate();
System.out.println("record inserted");
}

catch(SQLException e2)
{
}
}
public static void main(String args[])
{

```

```
ticket1 t=new ticket1();
```

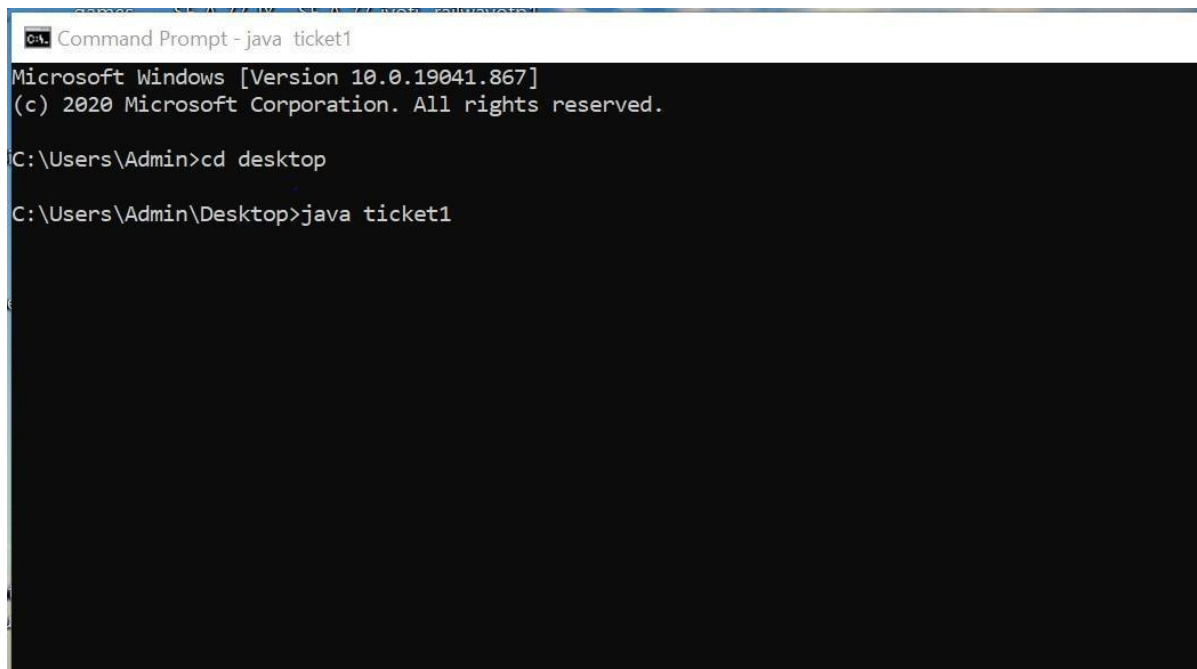
```
t.setSize(300,300);
```

```
t.setVisible(true);
```

```
}
```

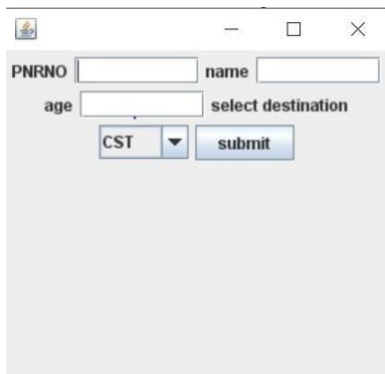
```
}
```

Output



```
C:\> Command Prompt - java ticket1
Microsoft Windows [Version 10.0.19041.867]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\Admin>cd desktop
C:\Users\Admin\Desktop>java ticket1
```



PNRNO name

age select destination

Conclusion & Future scope

The main aim of developing Reservation system is to provide all information that is required by the users. User friendliness is a must that the user must get the detail without complicated searching procedures. Other important requirements of software are data security, extensibility and maintainability. All these features are included in this project.

References

- https://www.google.com/search?q=railway+reservation+system+project+in+java&rlz=1C1CHBF_enIN920IN920&oq=railway+&aqs=chrome.2.69i57j0i67l3j0i433l4j0i67j0i433i457.4156j0j15&sourceid=chrome&ie=UTF-8
- java core volume
- idk java