PART B

AIM OF THE PROJECT: Micro-project on Bus Reservation System

Brief Description:

- The project helps to access some vital process of Bus reservation System
- It helps Passenger to get Information about a bus without visiting the bus station
- The Project consist of 2 main module
 - o Guest Login
 - o User Login
- In Guest login Only general Information about a bus can be obtained
- In user login you can book a ticket and can also view other general information about a bus.
- The User Login is fully secured with Password to access it.

Aim of micro project:

The Micro-Project Aims:-

- That By using java Applications & software can be easily developed
- At Detail study of each concept of JAVA
- TO make some process of bus Reservation system flexible for Passengers/Users
- To Reduce time ,effort and manual work
- To Provide facilities such as
 - o Route & other Information
 - Book ticket
 - Seat Avability

Course Outcome integrated:

- Develop Program Using OOP methodology in java
- Implement Exception Handeling

Actual procedure followed:

- 1. **Group Formation:-** JPR is a subject which teaches us some important concept of Java Programing .The basic aim of micro- project is to accelerate the attainment of the variouse outcome in the course.In the first 2 weeks of December the subject was introduced .The syllabus as well as detail of micro-project was discussed.The group of 3members were formed and the group leaders were selected.The schedule of Plan "A","B"& "PRESENTATION" were finalized.The variouse micro-project topics related to subject was discussed our guide gave us the opportunity to select the topic of our choice.
- **2. Finalization Of Micro-Project:**-After attending the lectures for 2 weeks.We selected the topic for micro-project.We discussed the topic with our Guide regarding the concept which we are going to apply in the project.We individually tried to explain the basic platform of project.
- 3. **Planning:-** After finalization of the project we started working on the project.we started the planning phase.We discussed among ourselves regarding the resources such as software requirements,compiler.In this week we completed 'PART A PLAN' of the micro-project which is nothing but a initial description about the project.We submitted it to the guide.
- 4. **Module Distribution &Analysis Part:-** Once the planning was over regarding resource's etc..According to members we distributed the module among us .We started the analysis of project.
- **5. Design Part :-**In this Part We added some white spaces and borders at some places in the project. With the help of this our project got a new look.
- **6. Implementation :-** In the week we actually started the technical phase .The coding for each module was done each member was writing code according to module assignmed to them.the testing of code was done to achieve the requirementof project.finally the project was within the schedule time.
- **7. Presentation :-**In this week we have to presented the micro-project in front of the guide. Each member of group presented their own parts with confidence in front of guide. She asked us variouse queries regarding the topics. We presented the details of each concept of java that we used in the project. She asked us to do variouse changes regarding some topics.
- **8. Submission:**-This week was submission week.We submitted our project along with 'Part A & B Plan' to the guide.We also submitted the hard copies and soft copies of project to the guide

Actual resources used:

SR NO	NAME OF RESOURCES USED	SPECIFICATION	QUANTITY	REMARKS
1	COMPUTER	PROCESSOR-AMD HARD DISK-2 TB RAM-16GB OPERATING SYSTEM- WINDOWS 10 PRO	1 1 1 1	HARDWARE & SOFTWARE USED
2	Java	jdk1.6.0_45		Software consisting java tools
3	PROGRAMMING LANGUAGE	java		PROGRAMMING LANGUAGE

Output of the micro project :

The output of the project is according to following index :

SR NO	CONTENT
1	CODING
2	CODE OUTPUT
3	REFERENCES

CODING

Abc.java	Encountered	quitch(d antion1)(if(f DugNo==1222)
import Passenger.*;	String Instead Of Integer !!!")	switch(d.option1){	if(f.BusNo==1223)
import Login.*;	get();	case 1:	s.get2();
import java.io.*;	}	R.get();	}else
import Bus.*;	}	break;	{
import System.*;		case 2:	s.get3();
public class Abc{	public static void	s.get4();	}
int option1;	main(String args[])throws	s.get5(); System.out.println("\n	s.get1();
void get(){	Exception		s.get6();
BufferedReader	{		System.out.println("\n
br=new	<pre>First_stage f=new First_stage();</pre>		
BufferedReader(new InputStreamReader(Sy stem.in));	Login l=new Login();	\n");	
System.out.println("\n \n Please	Passenger_details	hala	\n")
Choose The Operation	A=new Passenger_details();	break;	System.out.println("\n -xx-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-
to Be Performed :-") System.out.println("\n	Second_stage s=new	case 3:	X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-
\n 1. Route & Other Details");	Second_stage()	if(l.option!=2)	X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-
System.out.println("\n 2. Seat	Thrid_stage t=new Thrid_stage();	{	X-X-X-X-X-X-X-X-X-X-X-X-
Avability");	Route R=new	f.get();	x-x-x-x-x-x-x-x-x-x-x-x\n\n");
System.out.println("\n	Route();	f.get1();	System.out.println("
3. Book Tickets");	Abc d=new Abc();	A.get();	Proceeding To Payment");
System.out.println("\n	l.get();	inget(),	System.out.println("\n
4. Exit");	for (int x=1;x==1;)	A.display();	\n-xx-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-
try{	d.get(); System.out.println("\n 	A.get1(); System.out.println("\n	X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-
System.out.print("\n\n			X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-
Enter Options : ");			$x\n''$;
option1=Integer.parseI nt(br.readLine())	");) ID	t.get();
} catch(Exception E)		\n");	t.get1();
System.out.println		s.get();	

t.get2();	X++;	Password.equals("123 4"))	System.out.println(" Exiting
t.get3();	}	ſ	System");
}	}	System.out.println("\n	<pre>System.exit(0) }</pre>
else	}	X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-	Else{
{	Login.java	X-X-X-X-X-X-X-X-X-X-	System.out.println("\n
·		X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-	Invalid Input !!!\n Exiting
System.out.println("\n	package Login;	X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-	System");
\n You Need To	import java.io.*;	X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-	System.exit(0);
Have An Account For	public class Login {	x\n");	System.exit(0),
Booking Tickets !!!");		$System.out.println("\t\$	}}}catch(Exception E
}	<pre>public static String UserName,Password;</pre>	t\t\t\t\t\t\t\t\t\t\tWelco me Heramb");){}} public void get() {
Break:		System.out.println("\t\	BufferedReader
	public int option;	t\t\t\t\t\t\t\t\t\t\t	br=new
case 4:	public void	"); System.out.println("\t\	BufferedReader(new InputStreamReader(Sy
	Login_info()	t\t\t\t\t\t\t\t\t\t\t\t\t\=	stem.in));
$System.out.println("\n$	1	");	Contain out order the (II
	BufferedReader	else {	System.out.println("
	br=new	System.out.println("\n !-!-!-!-!-!-!-!-!-!-!-!-!-!-	
	BufferedReader(new	- - - - - - - - - - - - - - - -	
	InputStreamReader(Sy	- - - - - - - - - - - - -	
");	stem.in));	!-!-!-!-!-!-!-!-!-!-!-!-!-!-) II)
System.out.println("\n	System.out.println("\n	!-!-!-!-!-!-!-!-!-!-!-!-!-!-	\n"); System.out.println("\t\
\n	-XX-X-X-X-X-X-X-X-X-	!-!-!-\n");	t\t\t\t\t\t\t\t\t\t\t\t\elcome
THANK YOU FOR	X-X-X-X-X-X-X-X-X-X-X-	System.out.println("\t\ t\t\t\t\t\t\t\t\t!!	to MSRTC E-Ticketing
USING THIS SERVICE	X-X-X-X-X-X-X-X-X-X-X-	Invalid User !!");	System");
");	X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-	System.out.println("\n	$System.out.println("\n$
Creat are a wit(0).	X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-	- - - - - - - - - - - - - -	
System.exit(0); default:	X-X-X-X-X-X-X-X-X-X-	!-!-!-!-!-!-!-!-!-!-!-!-!-	
	x");	!-!-!-!-!-!-!-!-!-!-!-!-!-	
_	try{	!-!-!-!-!-!-!-!-!-!-!-!-!-!- !-!-!-!-!-	
System.out.println("\n \n Invalid Input	System.out.print("\n Enter	!-!-!\n");	");
<pre>!!!"; System.out.println("\n</pre>	UserName: ");	System.out.print("	System.out.println("Ple
Please Make	Hanning 1	Do You Want	ase Choose Login Type
Your Choice Again");	UserName=br.readLine ();	To Re-Login? (y/n): ");	:-");
break;	System.out.print("	String Ans=br.readLine();	System.out.println("\n
	Enter Password: ");	Alis-bi i caubille(),	1. User Login");
}	Password=br.readLine	if(Ans.equalsIgnoreCas	System out spintle("?
	();	e("y") {	System.out.println("2. Guest Login");
	if(UserName.equals("H	Login_inf } else	2000 20g. 1)
x=0;	eramb") &&	if(Ans.equalsIgnoreCas e("n")) {	

<pre>try{ System.out.print("\n</pre>	System.out.println("\t\ t\t\t\t\t\t\t\t\t!!Invali d Input!!"); System.out.println("\n !-!-!-!-!-!-!-!-!-!-!-!-!-!-!-!-!-!-!-	To Select Seats Of Your Choice [y/n]:"); ans2=br.readLine(): if(ans2.equalsIgnoreCa se("y")) { System.out.println("\n \n Please Provide The Number Of Seats For The Given	Selected Is Less Than Number Of Passenger"); System.out.println("\n \n!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-
{ case 1 Login_info();	!-!-!-!-!-!-!-!-!-!-!-!-!- !-!-!-\n"):	Type\n");} }	!!-!!-!!-!!\n\n");
break :case 2: System.out.println("\n	}}catch(Exception E) System.out.println("\n \nEntered String Value !!!\n Please Enter Proper Integer	<pre>public void get2()throws Exception { if(ans2.equalsIgnoreCa se("y") {</pre>	get2(); System.out.println("\n \n Note :- The Seats May Be
	Value"); System.out.println("\n	if(First_stage.BusNo== 1223) BufferedReader	Allocated If Avaliable !!!"); } */
\n");	Restarting System"); get(); } }	випегеакеаder br=new BufferedReader(new	if(Lower>A.num Upper>A.num
System.out.println("\Pl ease Enter Some Valid Information:");	SecondStage.java	InputStreamReader(Sy stem.in));	(Lower+Upper)>A.nu m)
intormation 1),	package System;	System.out.print("\n Enter The	{ System.out.println("\n
System.out.print("\nE nter Your Name : ") String	import java.io.*; import Bus.*;	Number Of Lower Berths : ");	- - - - - - - - - - - - -
GuestName=br.read System.out.print(" Enter Contact	import Passenger.*;	Lower=Integer.parseIn t(br.readLine());	- - - - - - - - - - - - -
Number : ");long Contact=Long.parseLo	<pre>public class Second_stage{</pre>	System.out.print("\n Enter The	!!\n\n");System.out.pri ntln("\n Number Of
ng(br.readLine()) System.out.println("\n	String ans2;	Number Of UpperBerths : ");	Berths Selected Is Greater Than Number
	int Lower,Upper; int Window,Normal;	<pre>Upper=Integer.parseIn t(br.readLine());</pre>	Of Passenger");
"); break: default: System.out.println("\n !-!-!-!-!-!-!-!-!-!-!-!-!-!-!-!-!-!-!-	Passenger_details A=new Passenger_details(); public void get()throws Exception { BufferedReader	/* if(Lower <a.num !!-!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-<="" m)="" system.out.println("\n="" td="" upper<a.num="" {="" ="" (lower+upper)<a.nu=""><td>System.out.println("\n \n!!-!!-!!-!!-!!-!!-!!-!!-!!-!!- !!-!!-!!-</td></a.num>	System.out.println("\n \n!!-!!-!!-!!-!!-!!-!!-!!-!!-!!- !!-!!-!!-
!-!-!-!-!-!-!-!-!-!-!-!-!-!-!-!-!-!-!-	br=new BufferedReader(new InputStreamReader(Sy stem.in)); System.out.print("\n Do You Want	!!-!!-!!-!!-!!-!!-!!-!!-!!-!!- !!-!!-!!-	System.out.println("\n \n Note :- The Seats May Be Allocated If Avaliable !!!"); }}}

public void get3()	System.out.println("\n	else	}}
throws Exception{ if(ans2.equalsIgnoreCa	\n Note :- The Seats May Be	if(ans2.equalsIgnoreCa se("n"))	public void get4(){
se("y"))	Allocated If Avaliable		BufferedReader
{ BufferedReader	!!!");	{ System.out.println("\n	br=new
br=new	}*/	\n Note: The	BufferedReader(new
BufferedReader(new	, ,	Seats May Be Auto	InputStreamReader(Sy
InputStreamReader(Sy	if(Window>A.num	Allocated\n\n");	stem.in));
stem.in));	Normal>A.num	System.out.print("Do	
System.out.print("\n	(Normal+Window)>A.	you want to Continue	try{
Enter The	num) {	[y/n] : ");	Creations out maint(") m) m
Number Of Window	System.out.println("\n		System.out.print("\n\n Enter Bus No
Seats : ");	!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-	String	:");
	!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-	ans3=br.readLine();	· J, First_stage.BusNo=Inte
Window=Integer.parse	!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-		ger.parseInt(br.readLi
<pre>Int(br.readLine());</pre>	!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-	if(ans3.equalsIgnoreCa	ne());
System out print(") p	!!-!!-!!-!!-!!-!!-!!-!!-!!-	se("y"))	ne()),
System.out.print("\n Enter	!!\n\n");	{}else	<pre>}catch(Exception E){</pre>
Number Of Normal	System.out.println("\n	if(ans3.equalsIgnoreCa	System.out.println("\n
Seats: ");	Number Of	se("n"))	\n Entered
seats. J,	Seats Selected Is		String Value !!!\n
Normal=Integer.parseI	Greater Than Number	${System.out.println(")}$	Please Enter
nt(br.readLine());	Of Passenger Details	n\n");	Valid Bus Number");
	Entered\n\n");Syste		System.out.println(" \n
/* if(Window <a.num< td=""><td>m.out.println("\n !!-!!-</td><td>get();</td><td>Please Enter</td></a.num<>	m.out.println("\n !!-!!-	get();	Please Enter
Normal <a.num td="" <=""><td>!!-!!-!!-!!-!!-!!-!!-!!-!!-</td><td>get2();</td><td>Bus Number Again");</td></a.num>	!!-!!-!!-!!-!!-!!-!!-!!-!!-	get2();	Bus Number Again");
(Normal+Window)<=A	!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-	getz(),	get4();
.num) {	!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-	get3();	
System.out.println("\n	!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-	80,	}}
!!-!!-!!-!!-!!-!!-!!-!!-!!-	!!-!!-!!-!!-!!-!!-!!-!!-		public void get5(){
!!-!!-!!-!!-!!-!!-!!-!!-!!-	!!\n\n");	get1() }	public vota gete()(
!!-!!-!!-!!-!!-!!-!!-!!-!!-			Bus1 B1=new Bus1();
!!-!!-!!-!!-!!-!!-!!-!!-!!-!!- !!-!!-!!-	get3();System.out.print	else {	
!!\n\n");	ln("\nNote :- The	System.out.println("In	Bus2 B2=new Bus2();
:: \II\II J,	Seats May Be	valid Input !!!"); get1();	Dug2 D2-may Dug20
System.out.println("\n	Allocated If Avaliable	}	Bus3 B3=new Bus3();
Number Of Seats	!!!");}}	else{	Bus4 B4=new Bus4();
Selected Is Less Than	public void	System.out.println("	240121 11011 24010,
Number Of Passenger	get1()throws	\n	Bus5 B5=new
Details	Exception{BufferedRea	Invalid	Bus5();
Entered $\n\n$ ");Syste	der br=new	Choice !!!!\n\n	
m.out.println("\n !!-!!-	BufferedReader(new	Please Select	Bus6
!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-	InputStreamReader(Sy	Correct Option");	B6=new Bus6();
!!-!!-!!-!!-!!-!!-!!-!!-!!-	stem.in));		Bus7
!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-		get();	B7=new Bus7();
!!-!!-!!-!!-!!-!!-!!-!!-!!-!!-	if(ans2.equalsIgnoreCa	+20	b/-new bus/(),
- - - - - - - -	se("y"))	get2();	Bus8
!!\n\n");	Ŋ	get3();	B8=new Bus8();
get3();	{}	8000()	_
gew(),		get1();	System.out.println("\n
			The Seat

Avability For Given Bus Is As Follows\n");	Bus2 B2=new Bus2();	else if(First_stage.BusNo== 1224)	B7.seats=B7.seats-A.num; }
if(First_stage.BusNo== 1221)	Bus3 B3=new Bus3(); Bus4 B4=new Bus4();	{ B4.window=B4.windo	else if(First_stage.BusNo== 1228)
{B1.seats();} else if(First_stage.BusNo==	Bus5 B5=new Bus5();	w-Window B4.normal=B4.normal-	{ B8.window=B8.windo
1222)	Bus6 B6=new Bus6(); Bus7 B7=new Bus7	Normal: B4.seats=B4.seats-	w-Window;
{ B2.seats();} else	Bus8 B8=new Bus8();	A.num; }	B8.normal=B8.normal- Normal;
<pre>if(First_stage.BusNo== 1223) {B3.seats(); } else</pre>	System.out.println("\n The Seat	if(First_stage.BusNo== 1225)	B8.seats=B8.seats- A.num;
if(First_stage.BusNo== 1224)	Avability For Given Bus Is As Follows\n");	{ B5.window=B5.windo w-Window;	}}
{B4.seats(); }	if(First_stage.BusNo==	B5.normal=B5.normal-	Thrid_stage.java
else if(First_stage.BusNo==	1221)	Normal;	package System;
1225)	{B1.window=B1.windo	B5.seats=B5.seats- A.num;	import Passenger.*;
{ B5.seats(); }	w-Window; B1.normal=B1.normal-	}else	import Login.*;
else	Normal; B1.seats=B1.seats-	if(First_stage.BusNo==	import java.io.*;
if(First_stage.BusNo== 1226)	A.num; }else	1226)	import Bus.*;
{B6.seats();} else if(First_stage.BusNo==	if(First_stage.BusNo== 1222)	{ B6.window=B6.windo w-Window;	public class Thrid_stage{
1227) {B7.seats();} else	{ B2.window=B2.windo w-Window;	B6.normal=B6.normal-	int ticket,wallet=20000;
if(First_stage.BusNo== 1228)	B2.normal=B2.normal- Normal;	Normal;	String ans4,ans5;
{ B8.seats();}	B2.seats=B2.seats-A.num; }	B6.seats=B6.seats-A.num; }	Passenger_details A=new Passenger_details();
else{System.out.println ("\n\n Bus Number Not Valid !!!");	else if(First_stage.BusNo== 1223)	if(First_stage.BusNo== 1227)	<pre>First_stage f= new First_stage();</pre>
get4();	{	{ B7.window=B7.windo	<pre>public void get(){</pre>
get5();	B3.upper=B3.upper- Upper;	w-Window;	if(f.BusNo==1221) {
}}	B3.lower=B3.lower-	B7.normal=B7.normal-	ticket=A.num*Bus1.cos
<pre>public void get6(){</pre>	Lower;	Normal;	t;
Bus1 B1=new Bus1();	В3		System.out.println("Th e Amount Payable For

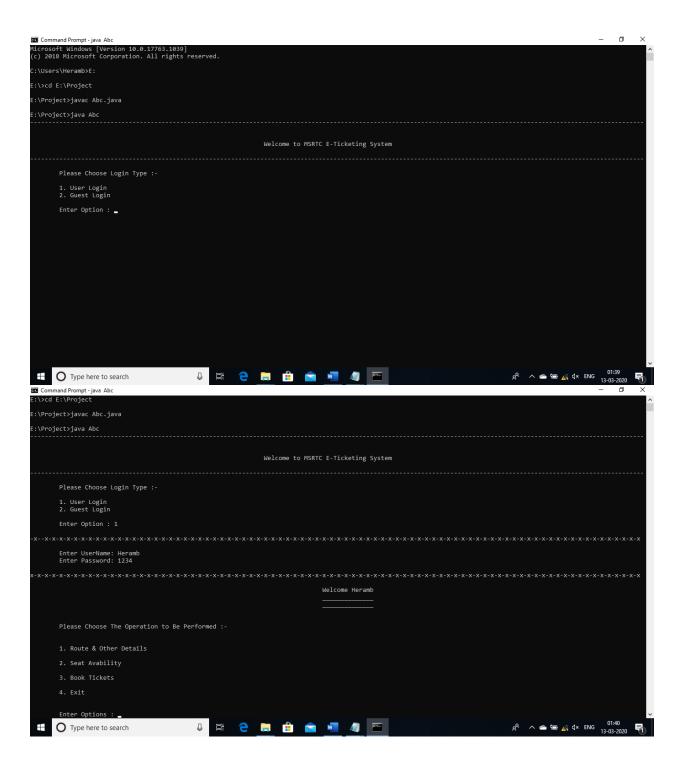
"+A.num+" Ticket Is:	"+A.num+" Ticket Is:	{	else
"+ticket);	"+ticket);	System.out.println("\n	if(ans4.equalsIgnoreCa
}) also	Insufficent Balance	se("n"))
ß	} else if(f.BusNo==1227)	!!!"); }	{System.out.println("\
else	ticket=A.num*Bus7.cos	else{ wallet=wallet-	n Note :The
if(f.BusNo==1222)	t	ticket;	Transaction will be
(System.out.println("	ticket,	Cancelled !!!\n");
{ticket=A.num*Bus2.co	The Amount	System.out.println("\n	cancencu (ii),
st;	Payable For "+A.num+"	The Payment	System.out.print("
System.out.println("	Ticket Is: "+ticket);	Has Been Completed	Do You Want
The Amount	}	Successfully The Ticket	To Continue [y/n]:");
Payable For "+A.num+"	j	Will Be Emailed To You	2, 1, 2,
Ticket Is: "+ticket);}	else{	On The Id Provided	ans5=br.readLine();
	•	");	
else	ticket=A.num*Bus8.cos		
if(f.BusNo==1223)	t	System.out.println(" \n	if(ans5.equalsIgnoreCa
ſ	System.out.println("	Your Current	se("y"))
{	The Amount	Wallet Balance Is :	
ticket=A.num*Bus3.cos	Payable For "+A.num+"	"+wallet+".Rs");} }else	60
t;	Ticket Is: "+ticket);	if(ans4.equalsIgnoreCa	{System.out.println("\
System.out.println("Th		se("n"))	n\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$
e Amount Payable For	}}		\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$
"+A.num+" Ticket Is:	11: 11 140	{ get3(); }	\$\$\$\$\$\$\$\$\$\$\$\$\$
"+ticket);	public void get1()	1 6	\$\$\$\$\$\$\$\$\$\$\$\$\$\$
+ticketj,	throws Exception{	else {	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$
}else	BufferedReader	System.out.println("\n	\$
if(f.BusNo==1224)	br=new	Invalid Choice !!!!\n\n	\$\n\n");
(BufferedReader(new	Please Select	System.out.println("\n
{	InputStreamReader(Sy	Correct Option");	\nTHANK YOU FOR
ticket=A.num*Bus4.cos	stem.in));	correct option j,	USING THIS SERVICE
t; System.out.println("	steminj),	get1();	");
The Amount	System.out.print(" $\n\$	8 0,	<i>)</i> ,
Payable For "+A.num+"	Do You Want	get2();	System.exit(0); }
Ticket Is: "+ticket);	To Pay An Amount Of		3 (3.3
	"+ticket+" .Rs From	get3();	else
} else	Your Wallet [y/n] : ");		if(ans5.equalsIgnoreCa
if(f.BusNo==1225)	B7 1 3.	}}	se("n"))
{ticket=A.num*Bus5.co	ans4=br.readLine();}	public void	
st;		get3()throws	{ get1(); }
	public void	Exception{	1. (2)
	get2()throws	BufferedReader	else{ }
System.out.println("Th	Exception{	br=new	} public void get1()
e Amount Payable For	D 66 1D 1	BufferedReader(new	throws Exception
"+A.num+" Ticket Is:	BufferedReader	InputStreamReader(Sy	till ows Exception
"+ticket);	br=new	stem.in));	{BufferedReader
) also	BufferedReader(new	stem.mjj,	br=new
} else	InputStreamReader(Sy	if(ans4.equalsIgnoreCa	BufferedReader(new
if(f.BusNo==1226} }	stem.in));	se("y"))	Builerearteader (new
ticket=A.num*Bus6.cos	iffance aqualaterare Ca		System.out.print("Do
t;	if(ans4.equalsIgnoreCa	{}	You Want To Refill
System.out.println("Th	se("y"))		Passenger Details
e Amount Payable For	{ if(ticket>wallet)		[y/n]:");
	((51.00		

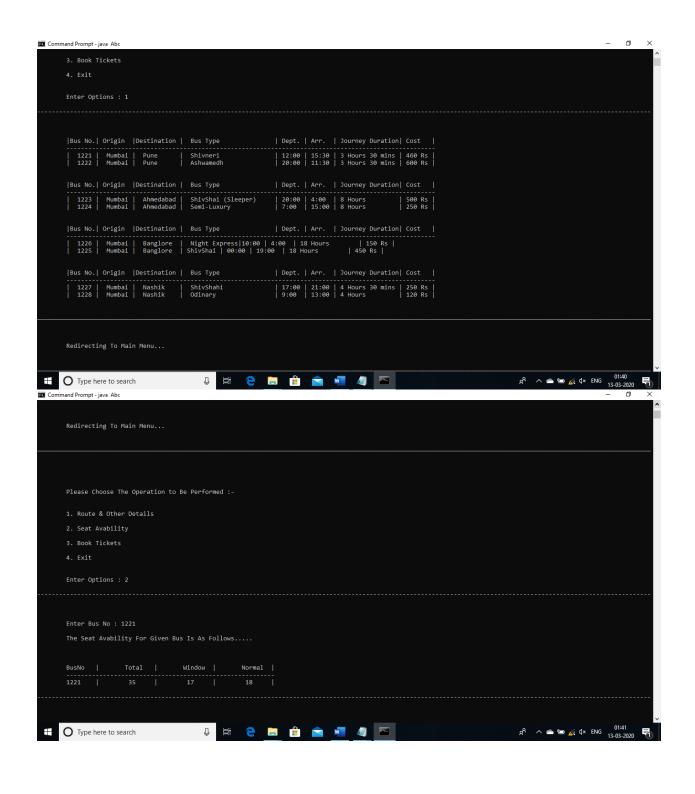
ans=br.readLine(); destination="Pune";	String			I
type="Shivneri";	_	destination="Pune";	");	"+number+"
Atime="12:00";				"+origin+"
Atime="12:00";		type="Shivneri";		•
if(ans.equalsIgnoreCas et e("y") Dtime="15:30"; "+seats*" "+dundet" "+duration*"] {get(); duration="3 Hours 30 mins"; "+normal*" "); public void seats(){ else else } seats=window+normal ; else origin Destination Portion Por		Atima="12.00".		
System.out.println("\n\ nvalid input\n\n\ nessee number +	iffana aqualalan ono Cas	Atime= 12:00;	"+number+"	•
Set				·
Set	e(y))	Dtime="15:30";	•	"+cost+" Rs ");}
display(); } mins"; "hormal*" "); else	{ get();	,	"+Window+"	nublic world coats() (
else else else cost=460; } Bus2.java e("n")) { System.out.println("\n else Origin Destination Bus Type String Origin.destination.type, Invalid Input \[\		duration="3 Hours 30	" normal "	public volu seats(){
iffans.equalsIgnoreCas e("n")) {	display(); }	mins";	+1101111a1+ J,	
if(ans.equalsIgnoreCas e("n")) {	else		}	seats=window+normal
e("n")) {		cost=460: }	Pro -2 :	;
public void displayOf System.out.println("\n		, ,	Busz.java	
else System.out.println("\n \n BusNo. \n BusNo \n Total \n Total	())	public void display(){	package Bus:	System out println("\ n
else Origin [Destination Bus Type String	{		r · · · · · · · · · · · · · · · · · · ·	
Origin [Destination] Bus Type String origin,destination,type, Dept. [Arr. Journey Duration] Cost Atime,Dtime,duration; System.out.println("\n Invalid Input "	ī		public class Bus2{	, i
String String String Normal "); Public class Bus1{ "+origin+" "+ormal+" "+ormal+" "+cost+" Rs "); Public static int seats; System.out.println(" "+origin,destination,type, Atime,Dtime,duration; Total Public static int seats; System.out.println(" public static int seats; System.out.println(" public static int seats; System.out.println(" mindow=17,normal=1 System.out.println(" mindow=17,normal=1 System.out.println(" Dime="11:30"; String Origin,destination,type, Atime,Dtime,duration; Mindow=17,normal=1 System.out.println(" Dime="11:30"; Origin,destination,type, Atime,Dtime,duration; mindow=17,normal=1 mindow=17,normal=1 mindow=17,normal=1 System.out.println(" Dime="11:30"; Origin,destination,type, Atime,Dtime,duration; mindow=17,normal=1 mindow=17,no	else			
Dept. Afr. Journey Origin,destination,type, Atime, Dtime, duration; Public static int seats; Public static int seat	ſ		_	•
System.out.println("\n Invalid Input " public static int seats; public static int cost; system.out.println(" " public static int seats; public static int seats; public static int cost; system.out.println(" " public static int seats; public static int seats; public static int seats; public static int cost; system.out.println(" " "+number+" public static int seats; public static int seats; seats=window+normal system.out.println(" " "+number+" public static int seats; seats=window+normal system.out.println(" system.out.println(" system.out.println(" system.out.println(" seats) public static int seats; seats=window+normal system.out.println("\n system.println("\n system.out.println("\n system.println("\n system.println("\n system.out.pr	l			1101111111 3,
Invalid Input " window=17,normal=1				
Invalid Input \n\n Please	System.out.println("\n	");System.out.println(-	System.out.println("
		"	=	
Input\n"); Input\n"]; Input\n"); Input\n"]; In	!\n\n Please			
Input\n"); get1(); system.out.println(" int cost; i	Provide Correct		o,number;	");
get1(); system.out.println(" "+number+" "public "bus1.java "+destination+" "humber+" "humber+" "humber+" "hedestination+" "hedrination+" "hedrination-" "hedrination-"	Input\n");	J,	public static	
public public	.40	system.out.println("	=	System out println("
#number+" Bus20{ "+seats+" Bus20{ "+seats+" Bus1.java "+destination+" number=1222; "+window+" package Bus; "+Atime+" "+Dtime+" origin="Mumbai"; "+normal+" "); public class Bus1{ "+cost+" Rs "); origin="Mumbai"; Bus3.java package Bus; public static int seats; seats=window+normal type="Ashwamedh"; public class Bus3{ public static int seats; seats=window+normal type="Ashwamedh"; public class Bus3{ public static int seats; System.out.println("\n Dtime="11:30"; String origin,destination,type, Atime,Dtime,duration; Total public static int cost; Window duration="3 Hours 30 public static int seats; public static int seats; System.out.println(" cost=600; } public public static int seats; public static int seats; public static int seats; Window duration="3 Hours 30 public static int seats; public static int seats; public static int seats; System.out.println(" cost=600; } public public static int seats; public static void display(){ display	get1();			
Bus1.java "+destination+" number=1222; "+window+" package Bus; "+Atime+" "+Dtime+" "+cost+" Rs "); public class Bus1{ "+cost+" Rs "); origin="Mumbai"; } String origin,destination,type, Atime,Dtime,duration; public static int seats; seats=window+normal type="Ashwamedh"; public class Bus3{ public static int window=17,normal=1 System.out.println("\n Normal ");	} } }	"+number+"	-	I
Bus1.java "+destination+" number=1222; "+window+" "+type+" number=1222; "+window+" "package Bus; "+Attime+" "+Dtime+" "public class Bus1{ "+duration+" origin="Mumbai";	, , ,	"+origin+"	Bus2(){	"+seats+" l
package Bus; "+type+" "Hormal+" "+normal+" "); public class Bus1{ "+duration+" "cost+" Rs "); origin="Mumbai"; } String origin,destination,type, Atime,Dtime,duration; public void seats(){ package Bus; public static int seats; seats=window+normal type="Ashwamedh"; public class Bus3{ public static int window=17,normal=1 System.out.println("\n Nnumber; \nBusNo Dtime="11:30"; String origin,destination,type, Atime,Dtime,duration; public static int cost; Window duration="3 Hours 30 mins"; int seats; public static int seats; System.out.println(" cost=600; }public toot int public static int cost int seats; System.out.println(" cost=600; }public toot int public static int cost int seats; System.out.println(" cost=600; }public toot int public static int cost int seats; System.out.println(" cost=600; }public int public static int cost int seats; System.out.println(" cost=600; }public int public static int cost int seats; System.out.println(" cost=600; }public int public static int public public static int public publi	Bus1.java	"+destination+"	200mb ov 1222.	· ·
public class Bus1{		• •	number=1222;	1
public class Bus1{ "+duration+" origin="Mumbai"; } } String origin,destination,type, Atime,Dtime,duration; public void seats(){ package Bus; public static int seats; seats=window+normal type="Ashwamedh"; public class Bus3{ public static int window=17,normal=1 System.out.println("\n NBusNo Dtime="11:30"; String origin,destination,type, Atime,Dtime,duration; public static int cost; Window duration="3 Hours 30 mins"; public static int seats; public static int seats; System.out.println(" cost=600; } public static int seats; public static int void display(){ public static int cost int seats; public static int seats; System.out.println(" cost=600; } public static int seats; public static int seats; System.out.println(" cost=600; } public static int seats; Public static int seats; System.out.println(" cost=600; } publi	package Bus;	-		"+normal+" ");
String origin,destination,type, Atime,Dtime,duration; public void seats(){ package Bus; public static int seats; seats=window+normal type="Ashwamedh"; public class Bus3{ public static int window=17,normal=1 System.out.println("\n NnBusNo Total public static int cost; public static int cost; public Bus1() Normal ");	public class Dus 1 (origin="Mumbai";	
origin,destination,type, Atime,Dtime,duration; public void seats(){ public static int seats; public static int window=17,normal=1 8,number; public static int cost; public static int cost; public static int cost; public static int Normal "); funmber=1221; destination="Pune"; public void seats(){ public void seats(){ public static int seats; public class Bus3{ public class Bus3{ Atime="20:00"; String origin,destination,type, Atime,Dtime,duration; public static int seats; int seats; public static int seats;	public class bus1{	"+cost+" Rs ");	,	}
origin,destination,type, Atime,Dtime,duration; public static int seats; public static int window=17,normal=1 8,number; public static int cost; public static int cost; public static int System.out.println("\n public static int cost; public static int Window fundow fu	String	}	1	Rus3.java
public static int seats; seats=window+normal type="Ashwamedh"; public class Bus3{ public static int window=17,normal=1 System.out.println("\n Dtime="11:30"; String origin,destination,type, Atime,Dtime,duration; public static int cost; Window duration="3 Hours 30 public static int seats; public Bus1() System.out.println(" cost=600; }public int seats; [Normal "); cost=600; }public public static int cost int seats;			destination="Pune";	2 400 1,4 1 4
public static int window=17,normal=1 8,number; public static int cost; public static int cost; public static int cost; public Bus1() System.out.println("\n Dtime="11:30";	Atime,Dtime,duration;	<pre>public void seats(){</pre>		package Bus;
public static int window=17,normal=1 8,number; public static int cost; public static int cost; public static int cost; public Bus1() System.out.println("\n Dtime="11:30";	nublic static int seats:	coate-windows normal	type="Ashwamedh";	11: 1 2 06
public static int window=17,normal=1 8,number; NnBusNo Total public static int cost; public Bus1() {number=1221; } System.out.println("\n Dtime="11:30"; Origin,destination,type, Atime,Dtime,duration; Atime=20:00; String origin,destination,type, Atime,Dtime,duration; Atime=20:00; String origin,destination,type, Atime,Dtime,duration; origin,destination,type, Atime=11:30"; Atime=20:00; String origin,destination,type, Atime,Dtime,duration; int seats; public static int seats;	public sauc ilic scats,			public class Bus3{
window=17,normal=1 8,number; NBusNo Total public static int cost; public Bus1() System.out.println("\n Dtime="11:30"; origin,destination,type, Atime,Dtime,duration; Total public static int cost; public Bus1() System.out.println(" cost=600; }public int Cost=600; }public public static int void display(){	public static int	,	Atime="20:00";	String
8,number; \nBusNo Atime,Dtime,duration; Total public static int cost; Window duration="3 Hours 30 public static public Bus1() System.out.println(" cost=600; }public {number=1221; cost=600; }public int	window=17,normal=1	$System.out.println("\n$	Dtimo="11.20".	_
public static int cost; Window duration="3 Hours 30 public static int seats; public Bus1() Window duration="3 Hours 30 public static int seats; Normal "); mins"; int seats; System.out.println(" cost=600; }public public static int void display() {	8,number;	\nBusNo	ה היווופ 11:30 ;	
public Bus1() Normal "); mins"; fundow mins and duration="3 Hours 30 public static int seats; System.out.println(" cost=600; }public public static int	11	Total		•
public Bus1() Normal "); mins"; int seats; [number=1221; System.out.println(" cost=600; }public public static int void display(){	public static int cost;		duration="3 Hours 30	
	public Bus1∩	Normal ");		int seats;
{number=1221; cost=000, }public int	1 0	System out println("		public static
void display(){	{number=1221;			=
origin="Mumbai"; System.out.println("		-		1110
	origin="Mumbai";		System.out.printin(

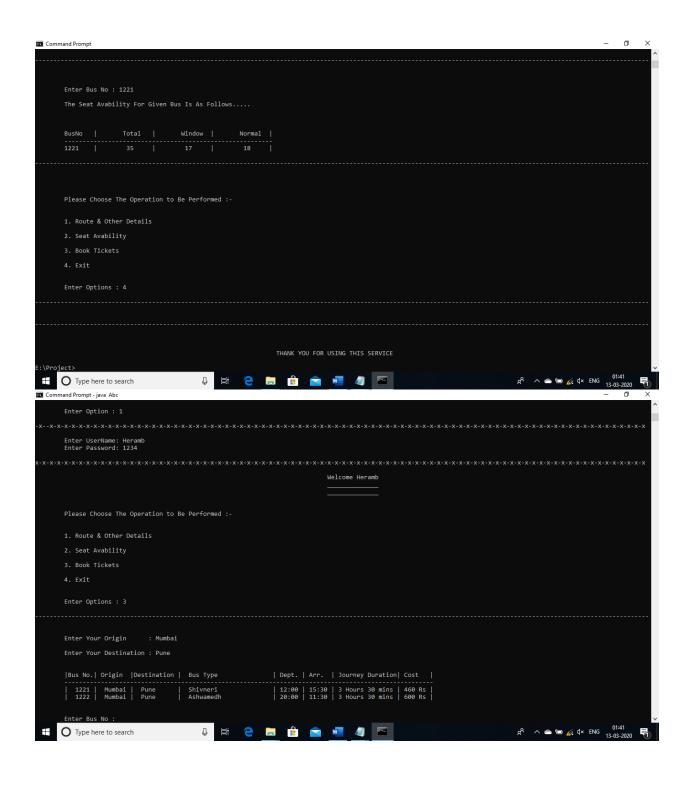
upper=20,lower=20,nu mber;	BufferedReader br=new	else if(origin.equalsIgnoreC	BufferedReader br=new
moer,	BufferedReader(new	ase("Mumbai") &&	BufferedReader(new
public static	InputStreamReader(Sy	destination.equalsIgno	InputStreamReader(Sy
int cost;	stem.in));	reCase("Banglore")) {	stem.in));
	337		<i>)),</i>
public Bus3()		Bus5 B5=new Bus5();	try{
	System.out.print(" \n	D (D(D (0	$System.out.print("\n\n$
{number=1223;	Enter Your	Bus6 B6=new Bus6();	Enter Bus No
(Humber-1223,	Origin : ");	B6.display();	:
	origin—by read in a O.	Do.display(),	");BusNo=Integer.pars
origin="Mumbai";desti	origin=br.readLine();	B5.display(); }else	eInt(br.readLine());
nation="Ahmedabad";	System.out.print("\n	if(origin.equalsIgnoreC	leatch (Evention E)
·	Enter Your	ase("Mumbai") &&	<pre>}catch(Exception E){ System.out.println("\n</pre>
	Destination:	destination.equalsIgno	\n Entered
	");destination=br.read	reCase("Nashik")){	String Value !!!\n
type="ShivShai	Line();		Please Enter
(Sleeper)";	if(origin.equalsIgnoreC	Bus7 B7=new Bus7();	Valid Bus Number
Atime="20:00";	ase("Mumbai") &&		From Above Table");
Atilile= 20:00 ;	destination.equalsIgno	Bus8	System.out.println("\n
Dtime="4:00";	reCase("Pune"))	B8=new Bus8();	Please Enter
201110 1100 ,			Bus Number Again");
duration="8 Hours";	{	B7.display();	Dus ivamber rigariin j,
		D7.display(),	get1();}
cost=500; }	Bus1		
11	B1=new Bus1();	B8.display();}	if(destination.equalsIg
public void display()	Bus2	1 5 6.5	noreCase("Pune"))
{	B2=new Bus2();	Eles {	•
· ·	bz=new busz(),		{
		System.out.println("\n	if(BusNo!=1221 &&
System.out.println("\n	B1.display();	Sorry We do	BusNo!=1221 (ac
\n Bus No.	1 5 6.	not Provide	System.out.println("\n
Origin Destination		Reservation/Booking	Bus Number
Bus Type	B2.display();	for the following route.Please visit	Not Valid !!");
Dept. Arr. Journey			, , , , , , , , , , , , , , , , , , , ,
Duration Cost ");	}	nearby Bus Depot For	get1();} }
	olao	Booking Enquiry!!\n Please Refer	
	else if(origin.equalsIgnoreC	Routes Section For	if(destination.equalsIg
System.out.println("	ase("Mumbai") &&	More	noreCase("Ahmedabad
	destination.equalsIgno	Details\n\n");System.	")) {
	reCase("Ahmedabad"))	out.println("\n-xx-x-	:((D., -N1, 1222.0.0
	recuse(riiiiieaabaa jj	X-X-X-X-X-X-X-X-X-X-	if(BusNo!=1223 &&
");	{Bus3 B3=new	X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-	BusNo!=1224)
	Bus3();	X-X-X-X-X-X-X-X-X-X-X-	{
System.out.println("	.	X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-	System.out.println("\n
	Bus4 B4=new Bus4();	X-X-X-X-X-X-X-X-X-X-X-	Bus Number
"+number+"	DO 11 1 C	X-X-X-X-X-X-X-X-X-X-	Not Valid !!");
"+origin+"	B3.display();	x-x-x-x-x-x"); get();	,,
"+destination+"	B4.display();	}}	get1();}}
"+type+" "+Atime+"	Dτ.αιομίαy (),		
"+Dtime+"	}	public void get1()	if(destination.equalsIg
"+duration+"	,	throws Exception	noreCase("Banglore"))

if(BusNo!=1225 && {	public void display()	/*System.out.println("	
BusNo!=1226) {System.out.println("\	{ System.out.println("	Bus No. Origin Destination	
n Bus Number	1	Bus Type	
Not Valid !!");	"+number+"	Dept. Arr. Journey	
	"+origin+"	Duration Cost ");	\n\n");
get1();}	"+destination+"		
}if(destination.equalsIg	"+type+"	System.out.println("	System.out.println("
noreCase("Nashik"))	"+Atime+" "+Dtime+"		Redirecting
{][if (BusNo!=1227	"+duration+"		To Main Menu");
&& BusNo!=1228) {	"+cost+" Rs ");	");	System.out.println("\n
System.out.println("\n	}	J,	\n
Bus Number	,	*/B1.display();	,
Not Valid !!");	<pre>public void get(){</pre>		
	D1 D1 D10	B2.display();	
get1();}} } }	Bus1 B1=new Bus1();	B3.display();	
Route.java	Bus2 B2=new Bus2();	bs.uispiay(),	
Noute.java	3,	B4.display();	\n\n");
package Bus	Bus3 B3=new Bus3();	1 7 0	
	D 4 D4 D 40	B6.display();	
public class Route {	Bus4 B4=new Bus4();	B5.display();	
String	Bus6 B6=new Bus6();	bs.uispiay(),	
origin,destination,type,	,	B7.display();	}
Atime, Dtime, duration;	Bus5 B5=new Bus5();		}
, , , , , , , , , , , , , , , , , , , ,	D 505	B8.display();	ſ
int seats,number;	Bus7 B7=new Bus7();		
11::	Bus8 B8=new Bus8();		
public static int cost;		System.out.println("\n	
IIIL COST,		\n	

CODE OUTPUT







REFERENCES

We do have used a few references during the process of building our project. The references used are from Websites, Books etc.

The references used are:

WEBSITES:

- 1: www.javapoint .com.
- 2: www.tutorialspoint.com.
- 3: www.quora.com.

REFERENCE BOOKS:

- 1: Programming with Java By Balagurusamy E.
- 2: Java Programming By Dr. Rajendra Kawale

Skill developed/learning out of this micro project :

- Since we worked in a group, We developed the skill of 'TEAMWORK' in us
- We came to know how and when to use some of the important concept of java.
- We attained the satisfied level of programming