

# **Report with screenshots of working application**

## **Introduction:**

Our team members:

180010020 – Karlapati Sree Ramu

180010016 – Gundla Srikanth

180010007 – Bagavatula Adithya Subramanyam

**Project title:** Bus Fleet Management System

## **About Project:**

Our project is Bus Fleet Management System. There are 2 roles i.e. Manager and Driver. Manager should allocate bus to a driver for a trip. To allocate bus to a driver some conditions need to be satisfied.

- 1) Both Bus and Bus driver should be free on that day for the trip. It means bus should not allocate to another driver nor driver should not be allocated to another bus.
- 2) That day should be a working day to the driver.
- 3) To allocate, both Bus and Bus driver need to be in same city.

If any of the above condition fails then Manager cannot allocate bus to the given driver.

Manager can also perform other actions such as:

Add a new Driver

Remove Driver

Add a new Bus

Remove Bus

View all Trips

Cancel any upcoming Trip

Add a new City

View City details

View Bus details

View Driver details

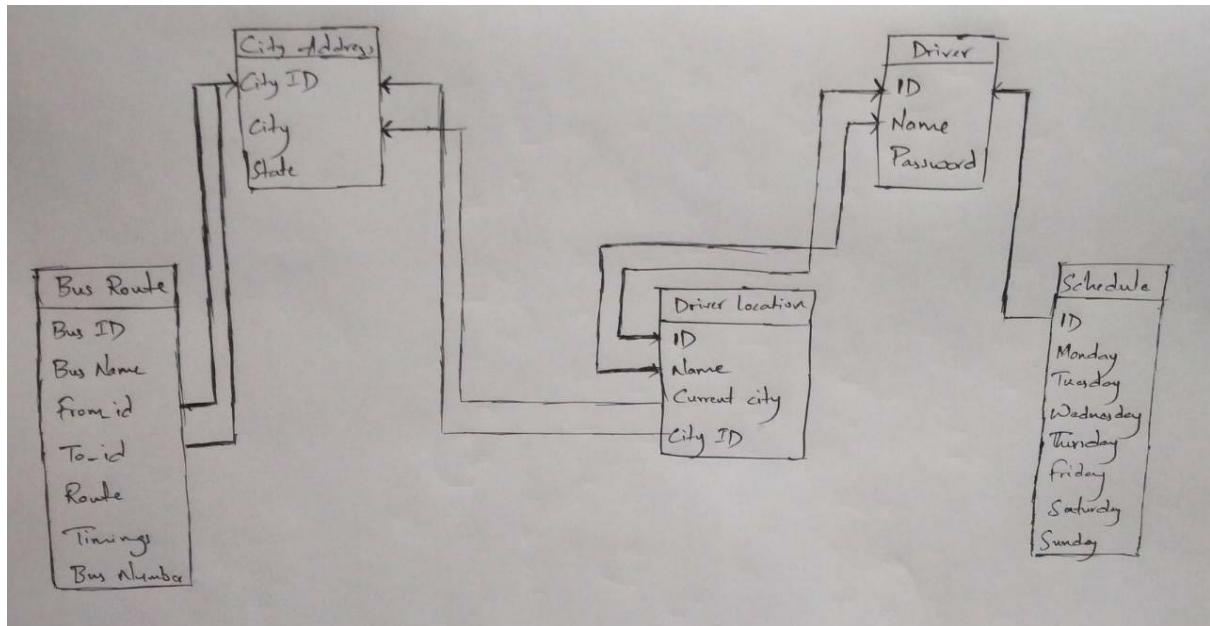
View Driver location

View Driver working days

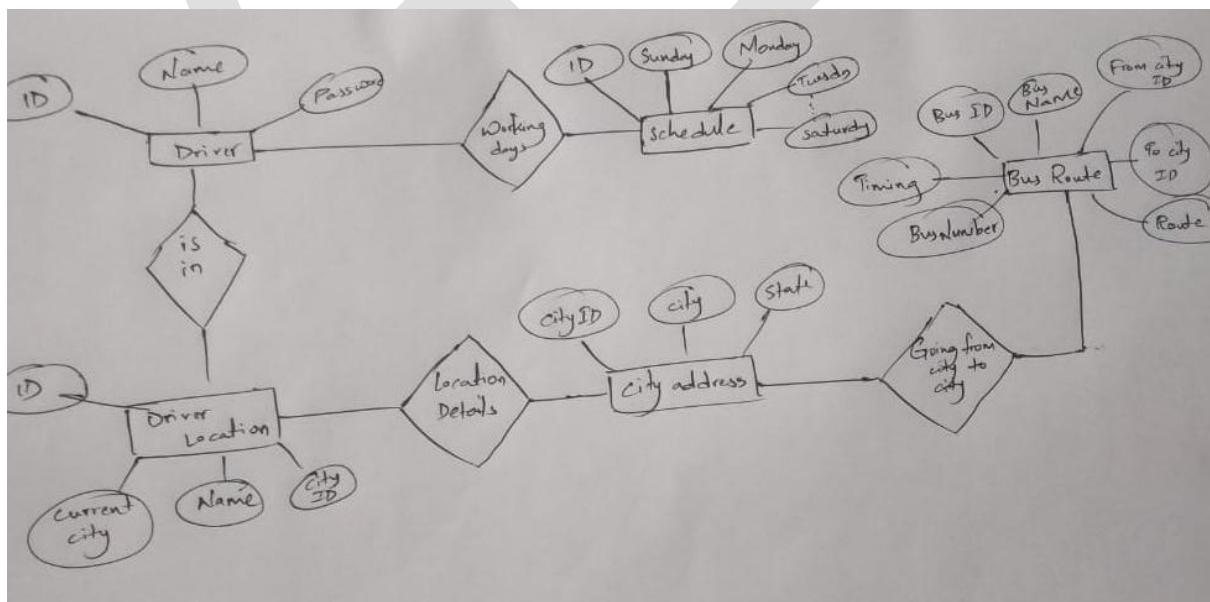
Driver can view his trips by entering his login credentials.

## Implementation Overview:

### Module Diagram:



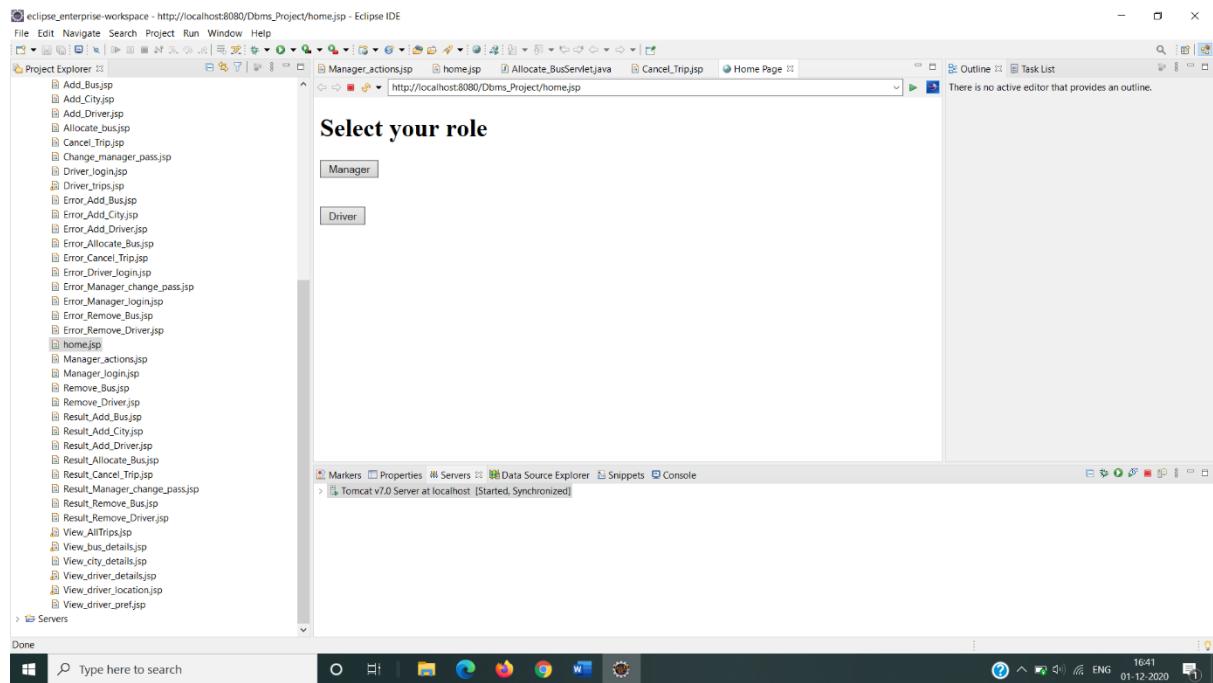
### DB Diagram:



## Result Screens and screenshots:

### Home page:

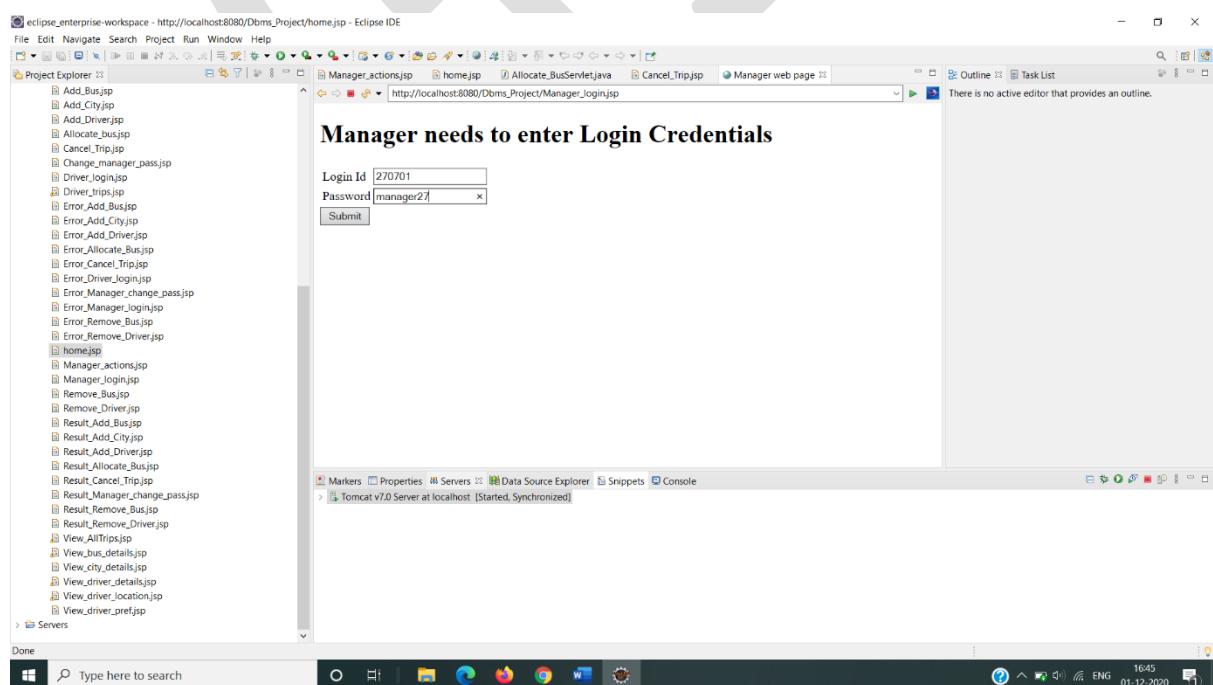
Here, the person who wants to login needs to enter his role i.e. Manager or Driver.



### For Manager:

Manager needs to enter his login credentials.

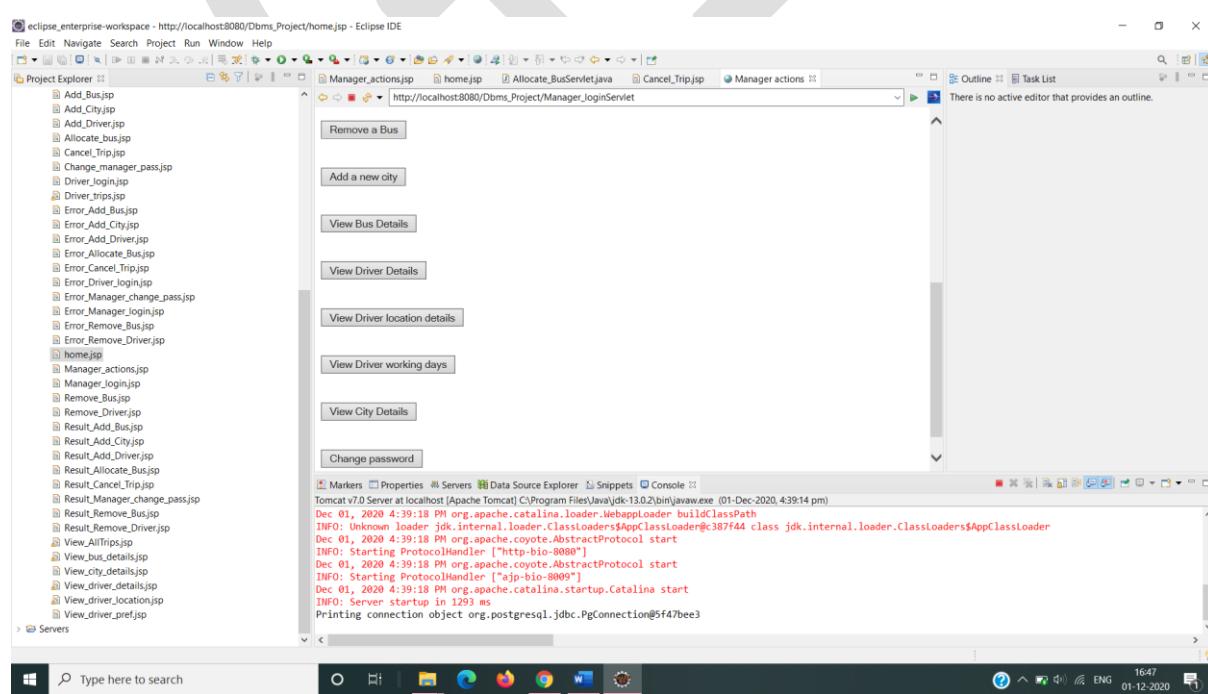
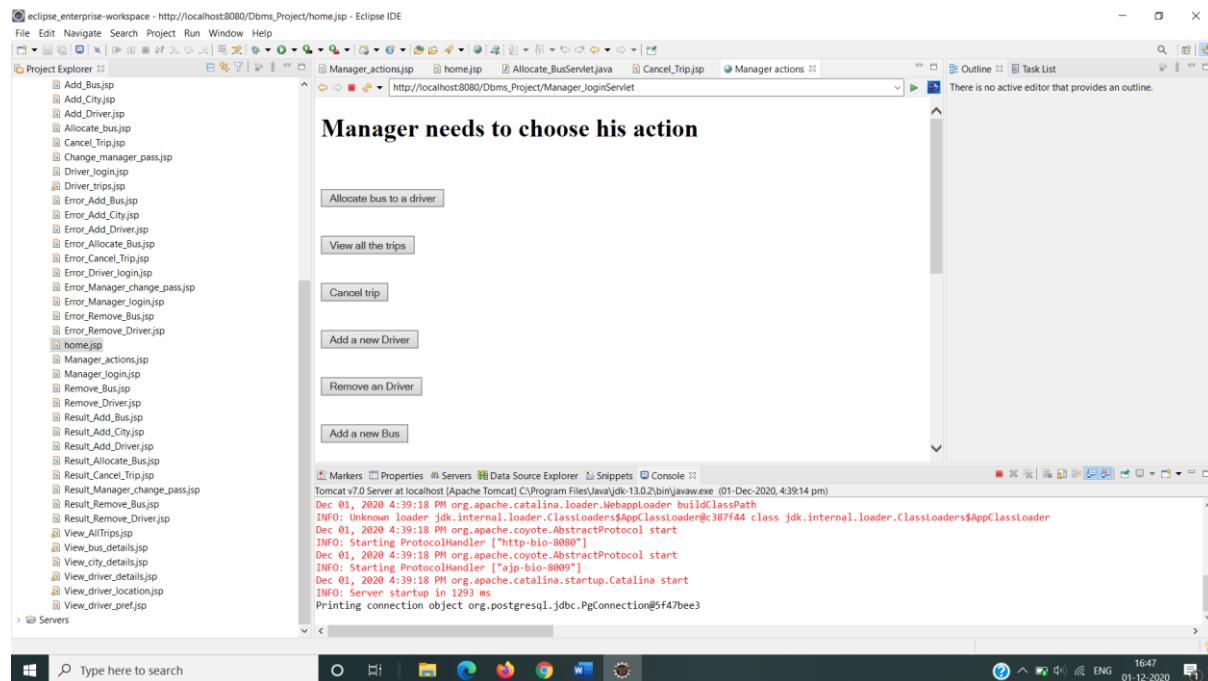
If the entered login credentials are correct then manager can perform his actions.



## Manager Actions page:

Submitting correct manager login credentials leads to Manager actions page:

Manager can perform all the actions there in below screenshots.



## Allocate bus to a driver:

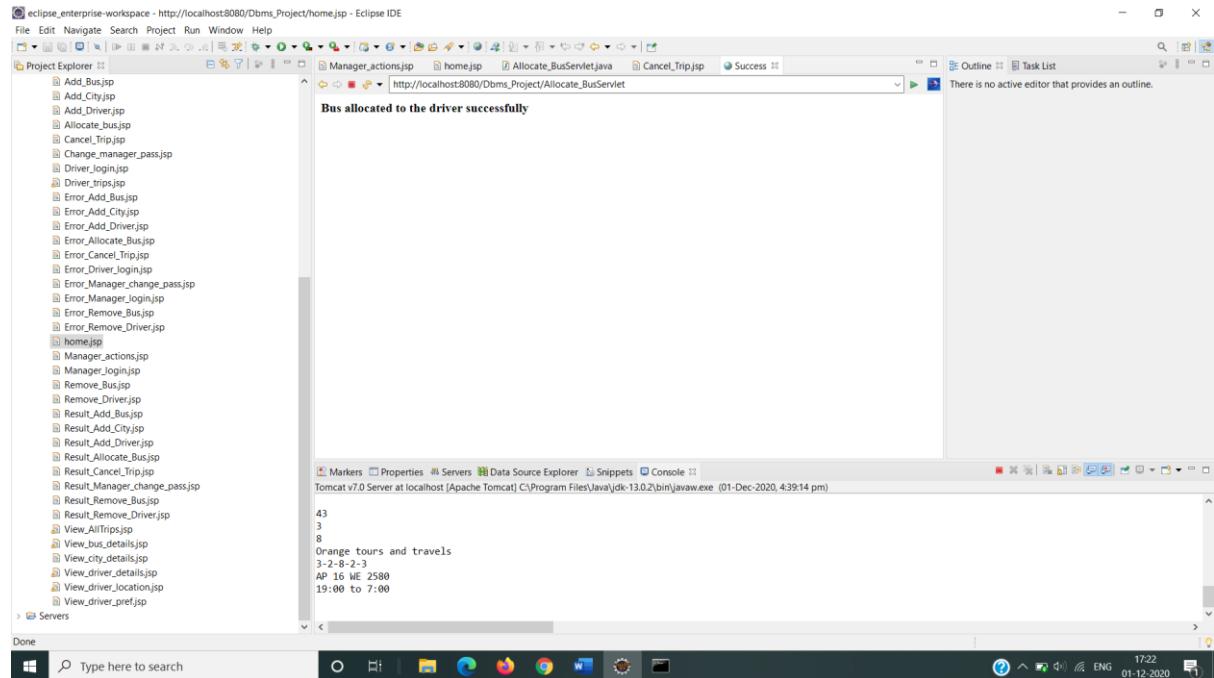
Manager allocates bus to drivers. There are certain rules to allocate bus. Bus driver and Bus should be in same city on that day. That day should be a working day to the driver. Bus and driver both should be free to allocate a trip. Else we get error in allocating bus to the driver.

## Screenshot of database before allocating trip:

```
Command Prompt - psql - U dbms_project
dbms_project=> select * from trip_details;
 trip_no | bus_id | from_city_id | to_city_id | driver_id | trip_date | route | bus_name | bus_number | bus_timings
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 1 | 55449630 | 4 | 11 | 10002 | 2020/11/26 | 4-10-11-10-4 | Orange tours and travels | KL 1 AB 7530 | 20:00 to 9:00
 2 | 41771455 | 2 | 5 | 10003 | 2020/11/26 | 2-4-5 | Orange tours and travels | AP 10 SV 9515 | 19:00 to 8:00
 3 | 25478552 | 6 | 12 | 10005 | 2020/11/26 | 6-12-6 | Orange tours and travels | KL 09 LB 8833 | 20:00 to 8:00
 4 | 98746325 | 14 | 7 | 10009 | 2020/11/26 | 14-15-7-15-14 | Orange tours and travels | MH 04 WE 9855 | 22:00 to 7:00
 5 | 47963356 | 13 | 1 | 10010 | 2020/11/26 | 13-7-1-7-13 | Orange tours and travels | GA 1 MK 2222 | 20:00 to 8:00
 6 | 74123698 | 17 | 20 | 10011 | 2020/11/26 | 17-20-17 | Orange tours and travels | WB 01 KJ 1111 | 20:00 to 9:00
 7 | 32456553 | 3 | 10012 | 2020/11/26 | 1-2-3-4-5 | Orange tours and travels | TS 10 CZ 3234 | 19:00 to 9:00
 8 | 17896546 | 1 | 4 | 10017 | 2020/11/26 | 1-4-1 | Orange tours and travels | TS 10 CZ 3234 | 19:00 to 9:00
 9 | 85280148 | 16 | 15 | 10019 | 2020/11/26 | 16-14-5-14-16 | Orange tours and travels | GJ 01 MK 4554 | 22:00 to 8:00
10 | 73048299 | 1 | 3 | 10001 | 2020/11/27 | 1-2-3-2-1 | Orange tours and travels | TS 08 VP 2703 | 18:00 to 8:00
11 | 35478962 | 5 | 14 | 10004 | 2020/11/27 | 5-7-15-14-7-5 | Orange tours and travels | KA 01 MK 8999 | 18:00 to 9:00
12 | 15987551 | 7 | 11 | 10006 | 2020/11/27 | 7-6-11-6-7 | Orange tours and travels | KA 6 WQ 8888 | 21:00 to 9:00
13 | 89629696 | 8 | 1 | 10008 | 2020/11/27 | 8-1-8 | Orange tours and travels | TN 02 AV 2777 | 20:00 to 6:00
14 | 95332486 | 18 | 17 | 10011 | 2020/11/27 | 18-17-18 | Orange tours and travels | DH 01 UY 9966 | 21:00 to 7:00
15 | 79542348 | 8 | 11 | 10013 | 2020/11/27 | 8-11-8 | Orange tours and travels | TN 12 KJ 9990 | 19:00 to 7:00
16 | 32456560 | 11 | 5 | 10001 | 2020/11/27 | 11-10-5-10-11 | Orange tours and travels | AP 16 WE 2580 | 22:00 to 7:00
17 | 32456522 | 1 | 1 | 10020 | 2020/11/27 | 1-2-3-2-3 | Orange tours and travels | AP 16 WE 2580 | 22:00 to 7:00
18 | 41771455 | 5 | 2 | 10003 | 2020/11/28 | 2-4-5 | Orange tours and travels | AP 10 SV 9515 | 19:00 to 8:00
19 | 44712565 | 12 | 8 | 10005 | 2020/11/28 | 12-8-12 | Orange tours and travels | KL 09 OP 9934 | 21:00 to 8:00
20 | 26984522 | 8 | 3 | 10007 | 2020/11/28 | 3-2-8-2-3 | Orange tours and travels | AP 16 WE 2580 | 19:00 to 7:00
21 | 47963356 | 1 | 13 | 10010 | 2020/11/28 | 13-7-1-7-13 | Orange tours and travels | GA 1 MK 2222 | 20:00 to 8:00
22 | 35789651 | 20 | 18 | 10012 | 2020/11/28 | 20-18-20 | Orange tours and travels | UP 14 PR 2345 | 20:00 to 7:00
23 | 32456566 | 5 | 11 | 10014 | 2020/11/28 | 11-10-5-10-11 | Orange tours and travels | KA 2 JH 8778 | 21:00 to 7:00
24 | 17896546 | 4 | 1 | 10017 | 2020/11/28 | 1-4-1 | Orange tours and travels | TS 10 CZ 1234 | 19:00 to 7:00
25 | 85280148 | 15 | 16 | 10019 | 2020/11/28 | 16-14-5-14-16 | Orange tours and travels | GJ 01 MK 4554 | 22:00 to 8:00
26 | 15987551 | 1 | 8 | 10002 | 2020/11/28 | 1-8-1-8 | Orange tours and travels | AP 16 WE 2580 | 22:00 to 7:00
27 | 35478962 | 11 | 1 | 10002 | 2020/11/28 | 8-11-8 | Orange tours and travels | TN 12 KJ 9990 | 19:00 to 7:00
28 | 35478962 | 14 | 5 | 10004 | 2020/11/29 | 5-7-15-14-7-5 | Orange tours and travels | KA 01 MK 8999 | 18:00 to 9:00
29 | 55449630 | 11 | 4 | 10006 | 2020/11/29 | 4-10-11-10-4 | Orange tours and travels | KL 1 AB 7530 | 20:00 to 9:00
30 | 98746325 | 7 | 14 | 10009 | 2020/11/29 | 14-15-7-15-14 | Orange tours and travels | MH 04 WE 9855 | 22:00 to 7:00
31 | 63495256 | 17 | 3 | 10011 | 2020/11/29 | 3-7-3 | Orange tours and travels | WB 01 KA 1111 | 19:00 to 9:00
32 | 15987551 | 11 | 7 | 10013 | 2020/11/29 | 7-6-11-6-7 | Orange tours and travels | KA 6 WQ 8888 | 21:00 to 9:00
33 | 95332486 | 17 | 18 | 10016 | 2020/11/29 | 18-17-18 | Orange tours and travels | DH 01 UY 9966 | 21:00 to 7:00
34 | 44712565 | 8 | 12 | 10020 | 2020/11/29 | 12-8-12 | Orange tours and travels | KL 09 OP 9934 | 21:00 to 8:00
35 | 26984522 | 3 | 8 | 10004 | 2020/11/29 | 3-2-8-2-3 | Orange tours and travels | AP 16 WE 2580 | 22:00 to 7:00
36 | 32456566 | 8 | 1 | 10005 | 2020/11/30 | 8-1-8 | Orange tours and travels | TN 02 AV 2777 | 19:00 to 6:00
37 | 73048299 | 3 | 1 | 10007 | 2020/11/30 | 1-2-3-2-1 | Orange tours and travels | TS 08 VP 2703 | 18:00 to 8:00
38 | 17896546 | 1 | 4 | 10008 | 2020/11/30 | 1-4-1 | Orange tours and travels | TS 10 CZ 1234 | 19:00 to 7:00
39 | 95332486 | 18 | 17 | 10012 | 2020/11/30 | 18-17-18 | Orange tours and travels | DH 01 UY 9966 | 21:00 to 7:00
40 | 32456566 | 11 | 5 | 10014 | 2020/11/30 | 11-10-5-10-11 | Orange tours and travels | KA 2 JH 8778 | 21:00 to 7:00
41 | 98746325 | 14 | 7 | 10015 | 2020/11/30 | 14-15-7-15-14 | Orange tours and travels | MH 04 WE 9855 | 22:00 to 7:00
42 | 25885211 | 16 | 18 | 10019 | 2020/11/30 | 16-18-16 | Orange tours and travels | GJ 3 TY 4444 | 21:00 to 7:00
(42 rows)
```

## Allocation details:

## Allocation success:



Screenshot of database after allocating trip:

Total no. of trips increased now

Select Command Prompt - psql -U dbms_project											
dbms_project>	select * from trip_details;										
	trip_no	bus_id	from_city_id	to_city_id	driver_id	trip_date	route	bus_name	bus_number	bus_timings	
1	55449630	4	11	10002	2028/11/26	4-10-11-10-4	Orange tours and travels	KL 1 AB 7530	20:00 to 9:00		
2	41771455	2	5	10003	2028/11/26	2-4-5	Orange tours and travels	AP 18 SV 9515	19:00 to 8:00		
3	25478552	6	12	10005	2028/11/26	6-12-6	Orange tours and travels	KL 09 LB 8833	20:00 to 8:00		
4	98746325	14	7	10009	2028/11/26	14-15-7-15-14	Orange tours and travels	PH 04 WE 9855	22:00 to 7:00		
5	47963356	13	1	10010	2028/11/26	13-7-1-7-13	Orange tours and travels	GA 1 MK 2222	20:00 to 8:00		
6	74123698	17	20	10011	2028/11/26	17-20-17	Orange tours and travels	NB 01 PR 3332	20:00 to 9:00		
7	34895537	3	1	10016	2028/11/26	1-2-3-2-3	Orange tours and travels	KL 01 KA 1111	19:00 to 9:00		
8	17896546	1	4	10017	2028/11/26	1-4-1	Orange tours and travels	TS 10 CZ 3234	19:00 to 7:00		
9	85200148	16	15	10019	2028/11/26	16-14-15-14-16	Orange tours and travels	GJ 01 MK 4554	22:00 to 8:00		
10	73048209	1	3	10001	2028/11/27	1-2-3-2-1	Orange tours and travels	TS 08 VP 2703	18:00 to 8:00		
11	35478962	5	14	10004	2028/11/27	5-7-15-14-15-7-5	Orange tours and travels	KA 01 MK 8999	18:00 to 9:00		
12	15987551	7	11	10006	2028/11/27	7-6-11-6-7	Orange tours and travels	KA 6 WQ 8888	21:00 to 9:00		
13	89629966	8	1	10008	2028/11/27	8-1-8	Orange tours and travels	TN 02 AV 2777	20:00 to 6:00		
14	95332486	18	17	10011	2028/11/27	18-17-18	Orange tours and travels	DH 01 UY 9966	21:00 to 7:00		
15	79542348	8	11	10013	2028/11/27	8-11-8	Orange tours and travels	TN 12 KJ 9996	19:00 to 7:00		
16	32489560	11	5	10018	2028/11/27	1-3-2-3-10-11	Orange tours and travels	AP 16 WE 2580	21:00 to 7:00		
17	36526452	3	1	10020	2028/11/27	1-2-3-2-3	Orange tours and travels	AP 16 WE 2580	21:00 to 7:00		
18	41771455	5	2	10003	2028/11/28	2-4-5	Orange tours and travels	AP 10 SV 9515	19:00 to 8:00		
19	44712565	12	8	10005	2028/11/28	12-8-12	Orange tours and travels	KL 09 OP 9934	21:00 to 8:00		
20	26984522	8	3	10007	2028/11/28	3-2-8-2-3	Orange tours and travels	AP 16 WE 2580	19:00 to 7:00		
21	47963356	1	13	10010	2028/11/28	13-7-1-7-13	Orange tours and travels	GA 1 MK 2222	20:00 to 8:00		
22	35789651	20	18	10012	2028/11/28	20-18-20	Orange tours and travels	UP 14 PR 2345	20:00 to 7:00		
23	32145566	5	11	10014	2028/11/28	11-10-5-10-11	Orange tours and travels	KA 2 JH 8778	21:00 to 7:00		
24	17896546	4	1	10017	2028/11/28	1-4-1	Orange tours and travels	TS 10 CZ 1234	19:00 to 7:00		
25	85200148	15	16	10018	2028/11/28	16-14-15-14-16	Orange tours and travels	GJ 01 MK 4554	22:00 to 8:00		
26	15987551	1	8	10021	2028/11/28	8-1-8	Orange tours and travels	KL 09 OP 9934	21:00 to 8:00		
27	35478962	11	1	10002	2028/11/28	1-11-8	Orange tours and travels	TN 12 KJ 9996	19:00 to 7:00		
28	15987551	14	5	10004	2028/11/29	5-7-15-14-15-7-5	Orange tours and travels	KA 01 MK 8999	18:00 to 9:00		
29	55449630	11	4	10006	2028/11/29	4-10-11-10-4	Orange tours and travels	KL 1 AB 7530	20:00 to 9:00		
30	98746325	7	14	10009	2028/11/29	14-15-7-15-14	Orange tours and travels	PH 04 WE 9855	22:00 to 7:00		
31	63495256	17	3	10011	2028/11/29	3-7-3	Orange tours and travels	WB 01 KA 1111	19:00 to 9:00		
32	15987551	11	7	10013	2028/11/29	7-6-11-6-7	Orange tours and travels	KA 6 WQ 8888	21:00 to 9:00		
33	95332486	17	18	10016	2028/11/29	18-17-18	Orange tours and travels	DH 01 UY 9966	21:00 to 7:00		
34	44712565	8	12	10020	2028/11/29	12-8-12	Orange tours and travels	KL 09 OP 9934	21:00 to 8:00		
35	26984522	3	8	10001	2028/11/29	1-3-2-8-2-3	Orange tours and travels	KL 09 OP 9934	21:00 to 8:00		
36	17896546	6	1	10005	2028/11/29	1-10-10-10-10	Orange tours and travels	KL 09 OP 9934	21:00 to 8:00		
37	73048209	3	1	10007	2028/11/29	1-2-3-2-1	Orange tours and travels	TS 08 VP 2703	18:00 to 8:00		
38	17896546	1	4	10008	2028/11/29	1-4-1	Orange tours and travels	TS 10 CZ 1234	19:00 to 7:00		
39	95332486	18	17	10012	2028/11/29	18-17-18	Orange tours and travels	DH 01 UY 9966	21:00 to 7:00		
40	32145566	11	5	10014	2028/11/29	11-10-5-10-11	Orange tours and travels	KA 2 JH 8778	21:00 to 7:00		
41	98746325	14	7	10015	2028/11/30	14-15-7-15-14	Orange tours and travels	PH 04 WE 9855	22:00 to 7:00		
42	25885211	16	18	10019	2028/11/30	16-18-16	Orange tours and travels	GJ 3 TY 4444	21:00 to 7:00		
43	26984522	8	3	10002	2028/12/01	3-2-8-2-3	Orange tours and travels	AP 16 WE 2580	19:00 to 7:00		

(43 rows)

## View all the trips:

Manager can view all the trips. Below are the screenshots attached

The screenshot shows the Eclipse IDE interface with the title bar "eclipse\_enterprise-workspace - http://localhost:8080/Dbms\_Project/home.jsp - Eclipse IDE". The main window displays a table titled "Data of All Trips" with the following data:

Trip Number	Bus ID	From City ID	To City ID	Driver ID	Trip Date	Route	Bus Name	Bus Number	Bu Ti
1	55449630	4	11	10002	2020/11/26	4-10-11-10-4	Orange tours and travels	KL 1 AB 7530	20 9:1
2	41771455	2	5	10003	2020/11/26	2-4-5	Orange tours and travels	AP 10 SV 9515	19 8:1
3	25478552	6	12	10005	2020/11/26	6-12-6	Orange tours and travels	KL 09 LB 9922	20 8:1

The status bar at the bottom right shows the date as 01-12-2020 and the time as 17:27.

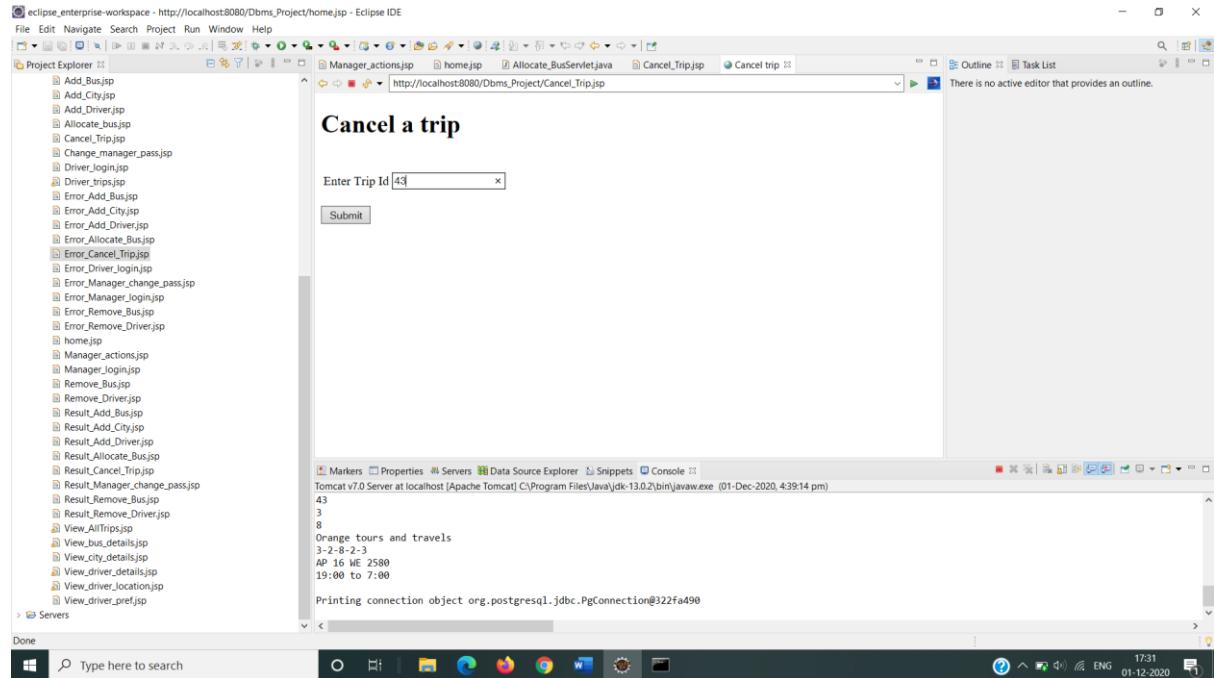
The screenshot shows the Eclipse IDE interface with the title bar "eclipse\_enterprise-workspace - http://localhost:8080/Dbms\_Project/home.jsp - Eclipse IDE". The main window displays a table titled "Data of All Trips" with the following data:

Trip Number	Bus ID	From City ID	To City ID	Driver ID	Trip Date	Route	Bus Name	Bus Number	Bu Ti
40	32145666	11	5	10014	2020/11/30	11-10-5-10-11	Orange tours and travels	KA 2 JH 8778	21 7:1
41	98746325	14	7	10015	2020/11/30	14-15-7-15-14	Orange tours and travels	MH 04 WE 9855	22 7:1
42	25885211	16	18	10019	2020/11/30	16-18-16	Orange tours and travels	GJ 3 TY 4444	21 7:1
43	26984522	8	3	10002	2020/12/01	3-2-8-2-3	Orange tours and travels	AP 16 WE 2580	19 7:1

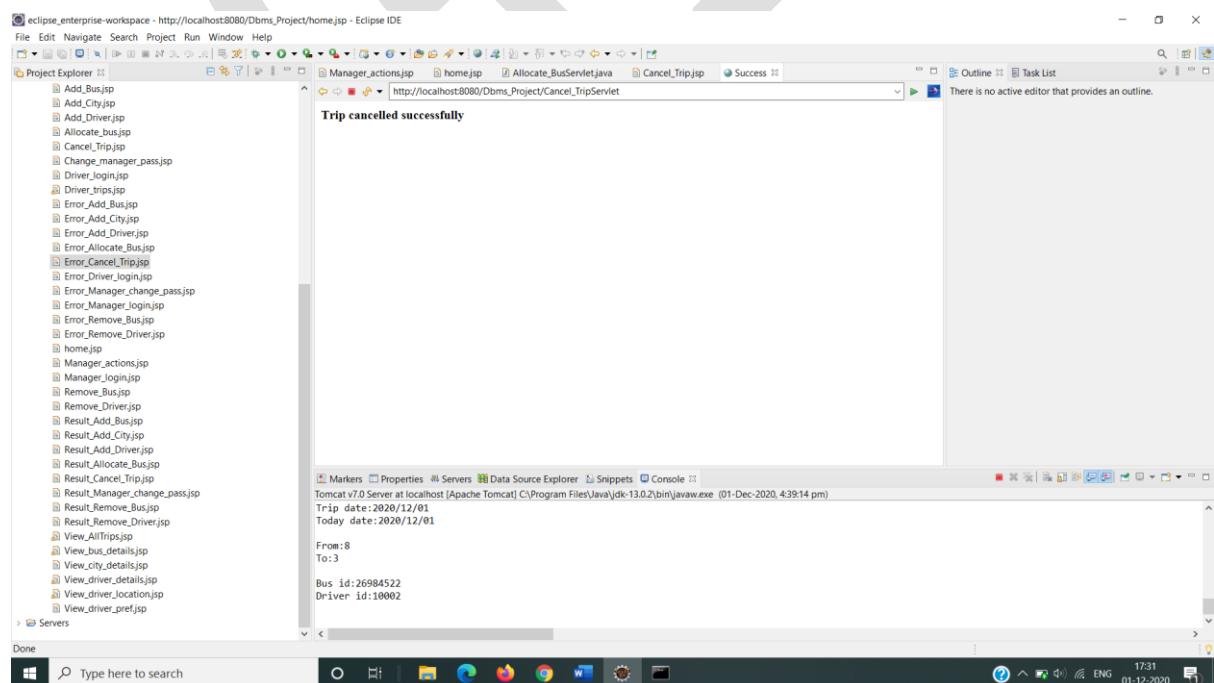
The status bar at the bottom right shows the date as 01-12-2020 and the time as 17:27.

## Cancel trip:

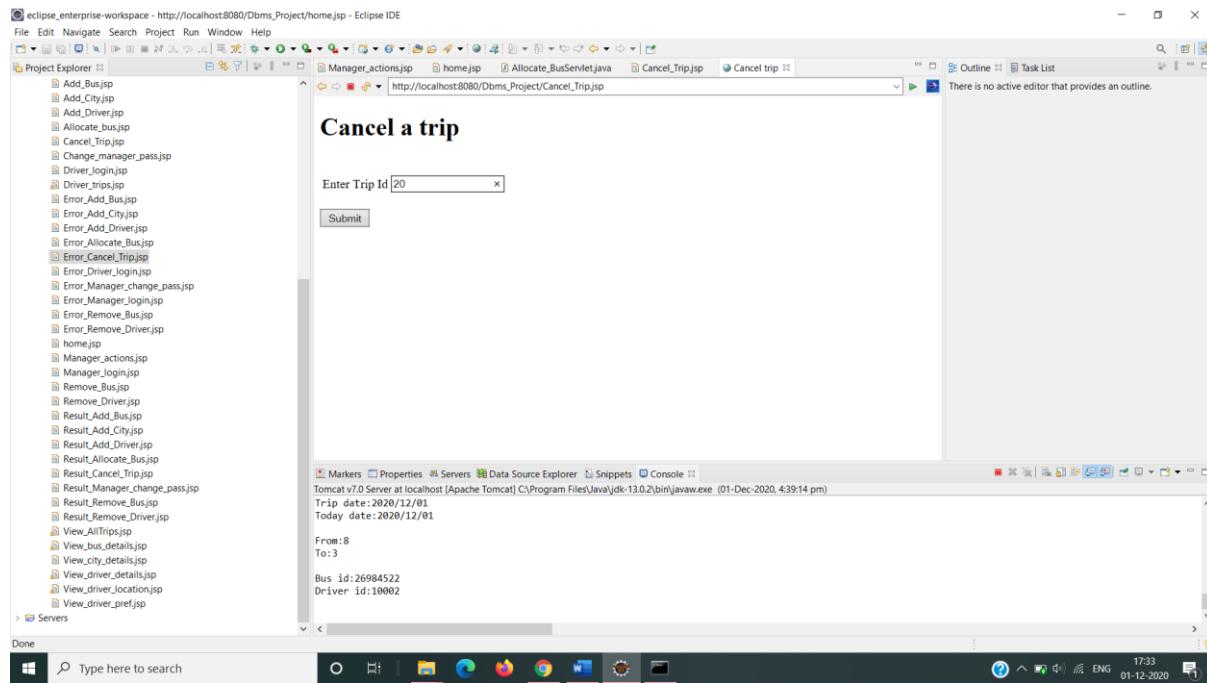
Manager needs to enter trip ID to cancel a trip. Manager cannot cancel completed trips.



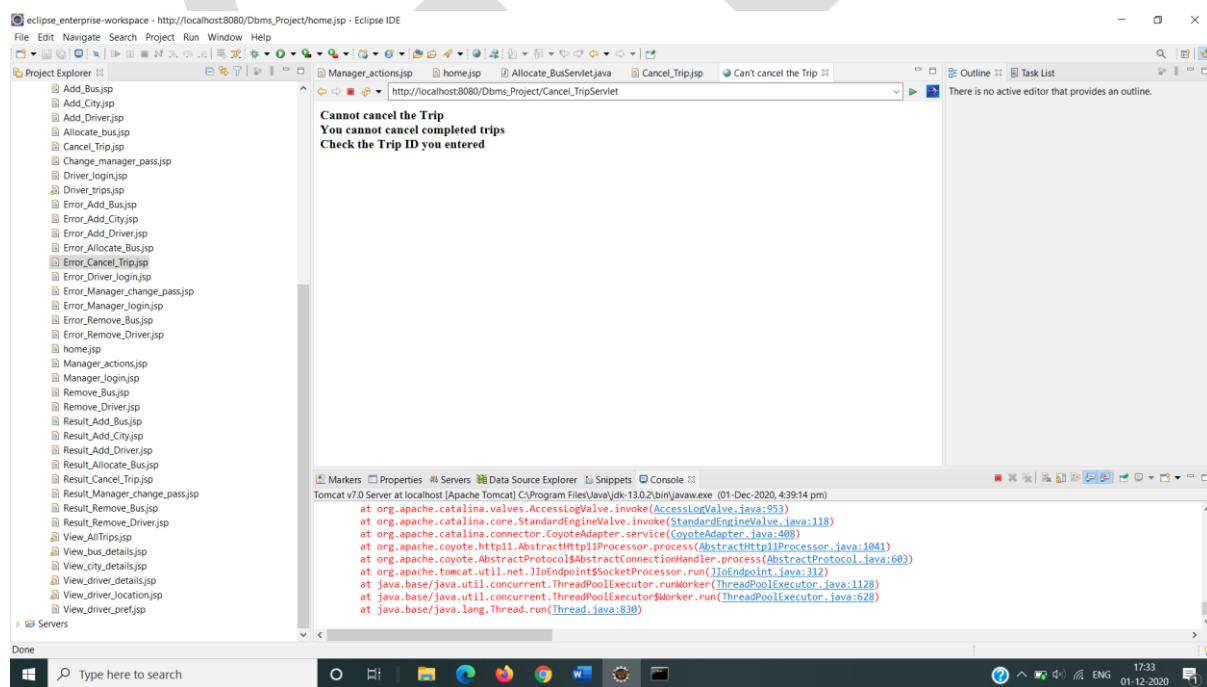
## Success message:



If the trip ID doesn't exist or trip is completed, we get error message:



Error message:



## Add a new driver:

We need to enter all the required details to add a driver. ID for new driver should be unique.

City ID of the driver should be valid. Else we get error message.

Database of driver details before adding a driver:

```
Command Prompt - psql -U dbms_project
SELECT * FROM driver_details;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| driver_id | driver_name | driver_password |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 10001 | Sree | 270378 |
| 10002 | Srikan | 123456 |
| 10003 | Adithya | 109929 |
| 10004 | Deepak | 937092 |
| 10005 | Patel | 999398 |
| 10006 | Rahul | 672983 |
| 10007 | Naidu | 029389 |
| 10008 | Hemanth | 893427 |
| 10009 | Surya | 928403 |
| 10010 | nck | 728904 |
| 10011 | Ashish | 684259 |
| 10012 | Sharath | 937823 |
| 10013 | Kamal | 634790 |
| 10014 | Sasi | 635161 |
| 10015 | Sheetal | 547060 |
| 10016 | Yashwanth | 867482 |
| 10017 | Chukri | 369852 |
| 10018 | Prajeeth | 357410 |
| 10019 | Ashok | 456321 |
| 10020 | Ram | 270301 |
| 10021 | Bhaskar | 471852 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
(21 rows)

dbms_project=> select * from driver_details;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| driver_id | driver_name | driver_password |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 10001 | Sree | 270378 |
| 10002 | Srikan | 123456 |
| 10003 | Adithya | 109929 |
| 10004 | Deepak | 937092 |
| 10005 | Patel | 999398 |
| 10006 | Rahul | 672983 |
| 10007 | Naidu | 029389 |
| 10008 | Hemanth | 893427 |
| 10009 | Surya | 928403 |
| 10010 | nck | 728904 |
| 10011 | Ashish | 684259 |
| 10012 | Sharath | 937823 |
| 10013 | Kamal | 634790 |
| 10014 | Sasi | 635161 |
| 10015 | Sheetal | 547060 |
| 10016 | Yashwanth | 867482 |
| 10017 | Chukri | 369852 |
| 10018 | Prajeeth | 357410 |
| 10019 | Ashok | 456321 |
| 10020 | Ram | 270301 |
| 10021 | Bhaskar | 471852 |
+-----+-----+-----+-----+-----+-----+-----+-----+
(21 rows)
```

Details of new driver:

Eclipse Enterprise WorkSpace - http://localhost:8080/Dbms\_Project/home.jsp - Eclipse IDE

New Driver details

Enter Driver Id	10024
Enter Driver Name	Vishnu
Enter Driver password	654321
Do he work on Sunday? (Enter 0 or 1)	1
Do he work on Monday? (Enter 0 or 1)	0
Do he work on Tuesday? (Enter 0 or 1)	1
Do he work on Wednesday? (Enter 0 or 1)	0
Do he work on Thursday? (Enter 0 or 1)	0
Do he work on Friday? (Enter 0 or 1)	1
Do he work on Saturday? (Enter 0 or 1)	0
Enter his current city ID	12

Submit

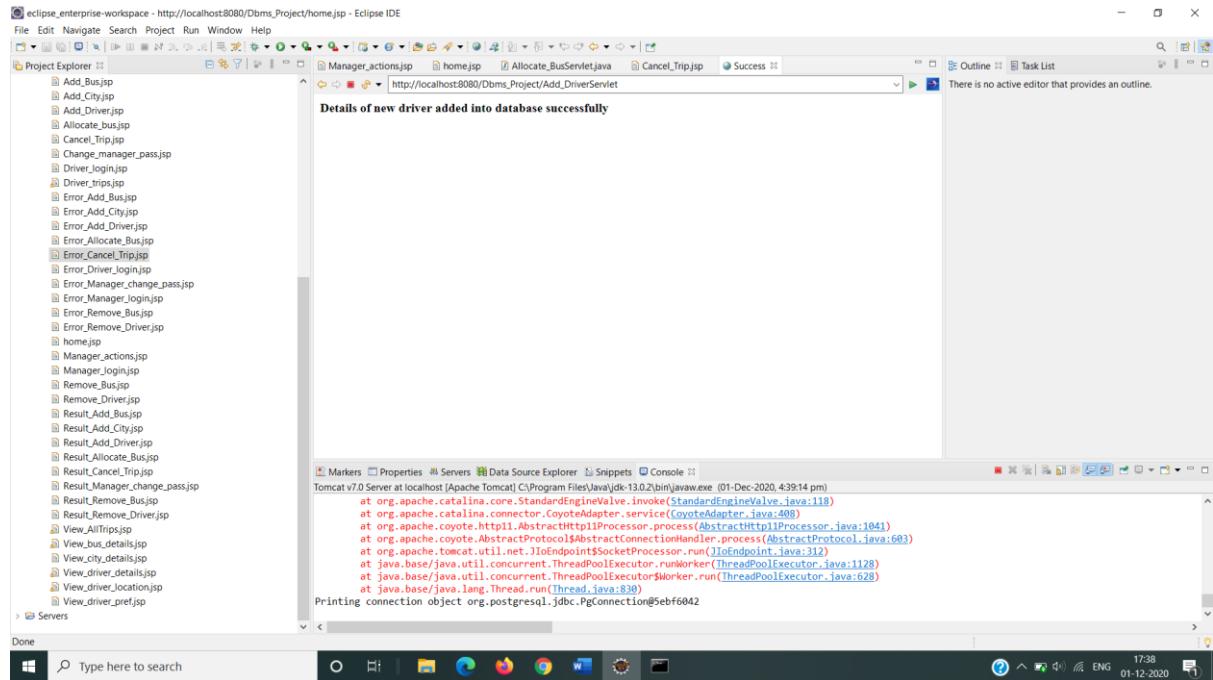
Tomcat v7.0 Server at localhost [Apache Tomcat/7.0.80] C:\Program Files\Java\jdk1.8.0\_261\bin\javaw.exe (01-Dec-2020, 4:39:14 pm)

```

at org.apache.catalina.valves.AccessLogValve.invoke(AccessLogValve.java:953)
at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:118)
at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:408)
at org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:1041)
at org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(AbstractProtocol.java:603)
at org.apache.tomcat.util.net.JIoEndpoint$Worker.run(JIoEndpoint.java:312)
at java.base/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1128)
at java.base/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:628)
at java.base/java.lang.Thread.run(Thread.java:803)

```

## Success message:



Database of driver details after adding a new driver:

The screenshot shows a Command Prompt window with the following text:

```

Command Prompt - pgsql - U dbms.project
10004 | Anvesh           | 937028
10007 | Patel1            | 920938
10006 | Rakesh             | 629983
10007 | Naidu              | 029389
10008 | Hemanth            | 893427
10009 | Surya               | 928403
10010 | nck                | 728904
10011 | Ashish              | 684259
10012 | Sharath             | 937823
10013 | Kamal               | 634785
10014 | Sai                 | 743261
10015 | Lakshmi             | 547949
10016 | Yashwant            | 867402
10017 | Chakri              | 369852
10018 | Prajeth              | 357410
10019 | Ashok               | 456321
10020 | Ram                 | 270301
10021 | Bhaskar              | 471852
(21 rows)

dbms_project=> select * from driver_details;
driver_id | driver_name | driver_password
-----+-----+-----
10001 | Sree          | 270378
10002 | Srikan        | 1123456
10003 | Adithya       | 109829
10004 | Anvesh        | 937028
10005 | Patel1         | 920938
10006 | Rakesh         | 629983
10007 | Naidu          | 029389
10008 | Hemanth        | 893427
10009 | Surya          | 928403
10010 | nck            | 728904
10011 | Ashish          | 684259
10012 | Sharath         | 937823
10013 | Kamal           | 634785
10014 | Sai             | 743261
10015 | Lakshmi         | 547949
10016 | Yashwant        | 867402
10017 | Chakri          | 369852
10018 | Prajeth          | 357410
10019 | Ashok           | 456321
10020 | Ram             | 270301
10021 | Bhaskar          | 471852
10024 | Vishnu          | 654321
(22 rows)

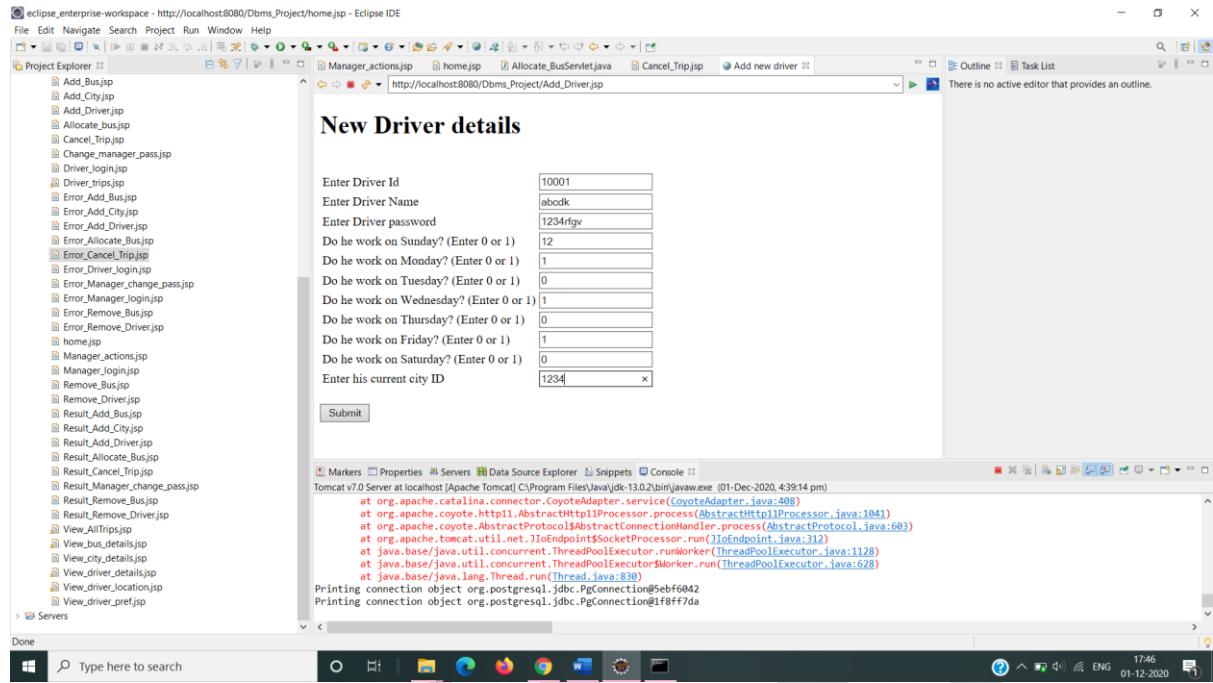
dbms_project=>

```

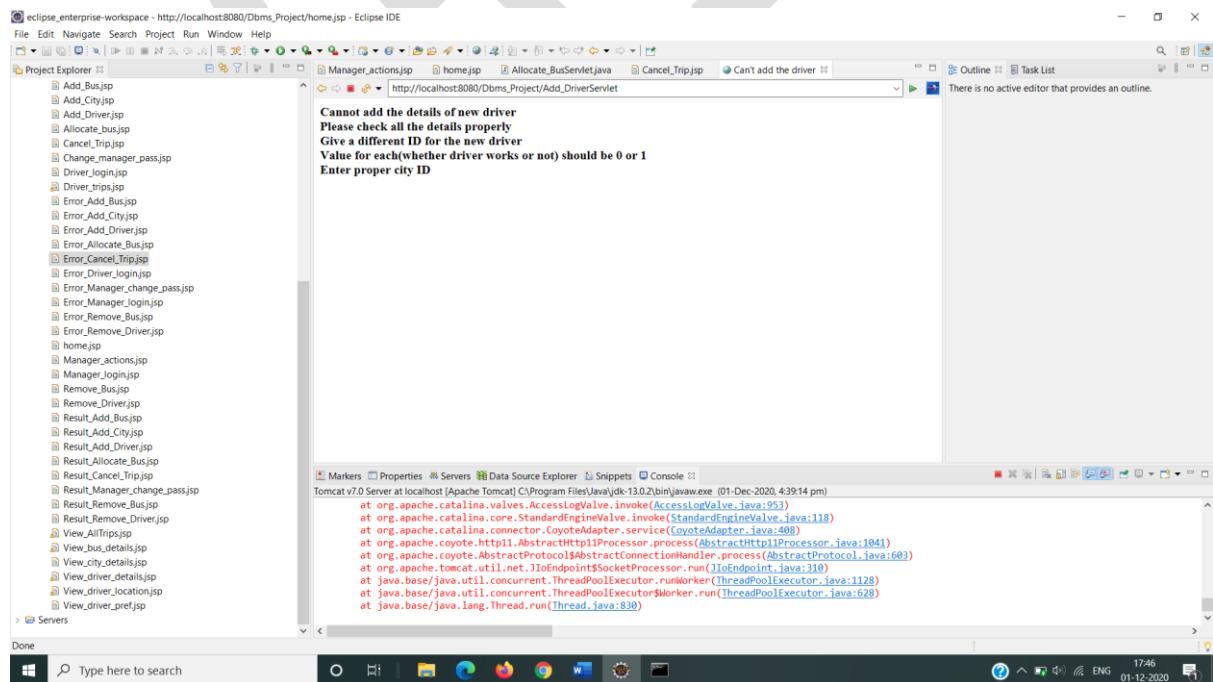
The status bar at the bottom right indicates the date and time: "01-12-2020 17:39".

If the details are not valid, we get error message:

### Invalid details:



### Error message:



## Remove a Driver:

Manager needs to enter valid driver ID to remove his details from the database.

Database before removing driver:

```
Command Prompt - pgsql -U dbms_project
10004 | Anvesh      | 937028
10005 | Patel        | 920938
10006 | Rahul         | 672983
10007 | Naidu         | 029389
10008 | Hemanth       | 893427
10009 | Surya         | 928403
10010 | nck           | 728904
10011 | Ashish        | 684259
10012 | Sharath        | 937823
10013 | Kamal          | 634785
10014 | Sai            | 743261
10015 | Sheetal        | 547960
10016 | Yashwanth      | 867402
10017 | Chakri         | 369852
10018 | Prajeeth       | 357410
10019 | Ashok          | 456321
10020 | Ram             | 270301
10021 | Bhaskar         | 471852
(21 rows)

dbms_project=> select * from driver_details;
driver_id | driver_name | driver_password
10001 | Sree          | 270378
10002 | Srikan        | 123456
10003 | Adithya       | 109929
10004 | Anvesh        | 937028
10005 | Patel          | 920938
10006 | Rahul          | 672983
10007 | Naidu          | 029389
10008 | Hemanth        | 893427
10009 | Surya          | 928403
10010 | nck            | 728904
10011 | Ashish         | 684259
10012 | Sharath         | 937823
10013 | Kamal          | 634785
10014 | Sai             | 743261
10015 | Sheetal         | 547960
10016 | Yashwanth       | 867402
10017 | Chakri          | 369852
10018 | Prajeeth        | 357410
10019 | Ashok           | 456321
10020 | Ram              | 270301
10021 | Bhaskar          | 471852
10024 | Vishnu          | 654321
(22 rows)

dbms_project=>
```

Details of driver to remove him:

eclipse\_enterprise-workspace - http://localhost:8080/Dbms\_Project/home.jsp - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Explorer

- Add\_Bus.jsp
- Add\_City.jsp
- Add\_Driver.jsp
- Allocate\_bus.jsp
- Cancel\_Trip.jsp
- Change\_manager\_pass.jsp
- Driver\_Login.jsp
- Driver\_Trips.jsp
- Error\_Add\_Bus.jsp
- Error\_Add\_City.jsp
- Error\_Add\_Driver.jsp
- Error\_Allocate\_Bus.jsp
- Error\_Cancel\_Trip.jsp
- Error\_Driver\_Login.jsp
- Error\_Manager\_change\_pass.jsp
- Error\_Manager\_login.jsp
- Error\_Remove\_Bus.jsp
- Error\_Remove\_Driver.jsp
- home.jsp
- Manager\_actions.jsp
- Manager\_login.jsp
- Remove\_Bus.jsp
- Remove\_Driver.jsp
- Result\_Add\_Bus.jsp
- Result\_Add\_City.jsp
- Result\_Add\_Driver.jsp
- Result\_Allocate\_Bus.jsp
- Result\_Cancel\_Trip.jsp
- Result\_Manager\_change\_pass.jsp
- Result\_Remove\_Bus.jsp
- View\_AllTrips.jsp
- View\_city\_details.jsp
- View\_driver\_details.jsp
- View\_driver\_location.jsp
- View\_driver\_pref.jsp

Manager\_actions.jsp home.jsp Allocate\_BusServlet.java Cancel\_Trip.jsp Remove Driver

Remove Driver

Enter Driver Id

Submit

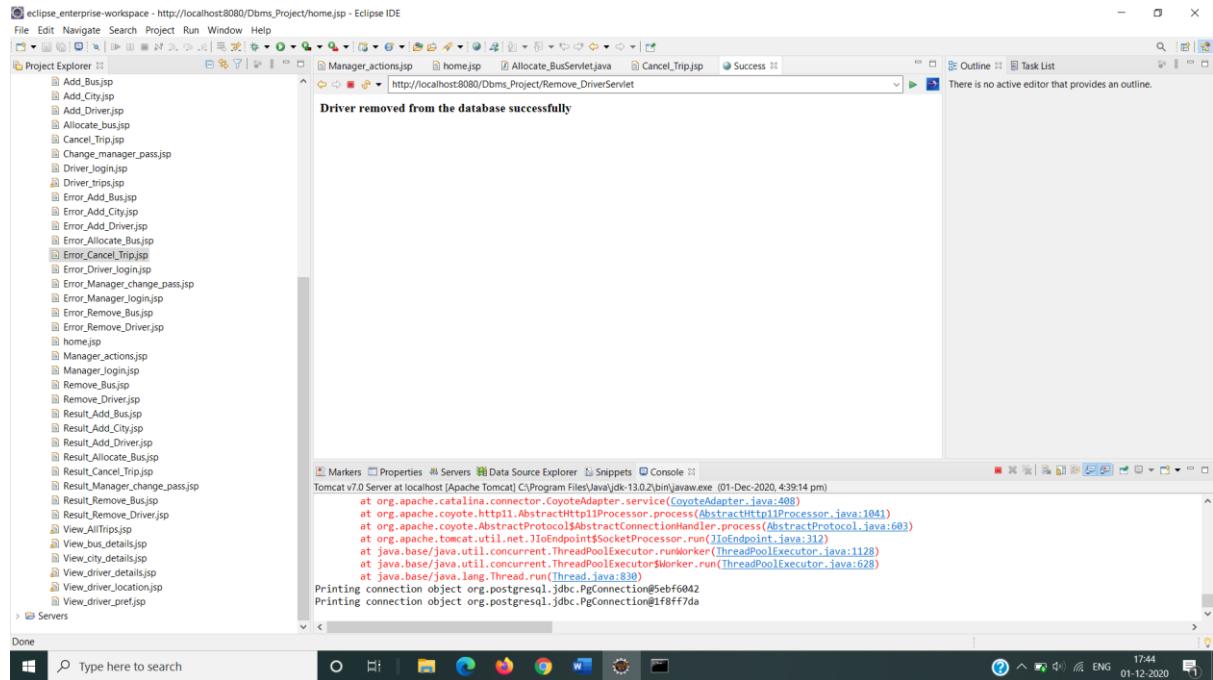
Tomcat v7.0 Server at localhost [Apache Tomcat/7.0.90] C:\Program Files\Java\jdk-13.0.2\bin\javaw.exe (01-Dec-2020 4:39:14 pm)  
at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:118)  
at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:408)  
at org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:1041)  
at org.apache.coyote.AbstractProtocol\$AbstractConnectionHandler.process(AbstractProtocol.java:603)  
at org.apache.tomcat.util.net.JIoEndpoint\$SocketProcessor.run(JIoEndpoint.java:312)  
at java.base/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1128)  
at java.base/java.util.concurrent.ThreadPoolExecutor\$Worker.run(ThreadPoolExecutor.java:628)  
at java.base/java.lang.Thread.run(Thread.java:803)

Printing connection object org.postgresql.jdbc.PgConnection@5ebf6042

Done

Type here to search

## Success message:



## Database of driver details after removing him:

```

Command Prompt - pgsql -U dbms.project
10004 | Anvesh           | 937082
10007 | Patel              | 920038
10006 | Rahul              | 672983
10007 | Naidu              | 029389
10008 | Hemanth            | 893427
10009 | Surya              | 928403
10010 | nck                | 728904
10011 | Ashish              | 684259
10012 | Sharath             | 937823
10013 | Kamal               | 634785
10014 | Sali                | 728903
10015 | Venkata            | 547060
10016 | Yashwanth          | 867482
10017 | Chakri              | 369852
10018 | Prajeeth            | 357410
10019 | Ashok              | 456321
10020 | Ram                 | 270301
10021 | Bhaskar             | 471852
10024 | Vishnu              | 654321
(22 rows)

dbms_project=> select * from driver_details;
driver_id | driver_name | driver_password
-----+-----+-----
10001 | Sree           | 270378
10002 | Srikan         | 123456
10003 | Adithya        | 109829
10004 | Anvesh         | 937082
10005 | Patel          | 920038
10006 | Rahul          | 672983
10007 | Naidu          | 029389
10008 | Hemanth        | 893427
10009 | Surya          | 928403
10010 | nck            | 728904
10011 | Ashish          | 684259
10012 | Sharath         | 937823
10013 | Kamal           | 634785
10014 | Sali            | 728903
10015 | Venkata         | 547060
10016 | Yashwanth       | 867482
10017 | Chakri          | 369852
10018 | Prajeeth        | 357410
10019 | Ashok           | 456321
10020 | Ram              | 270301
10021 | Bhaskar          | 471852
(21 rows)

dbms_project=>

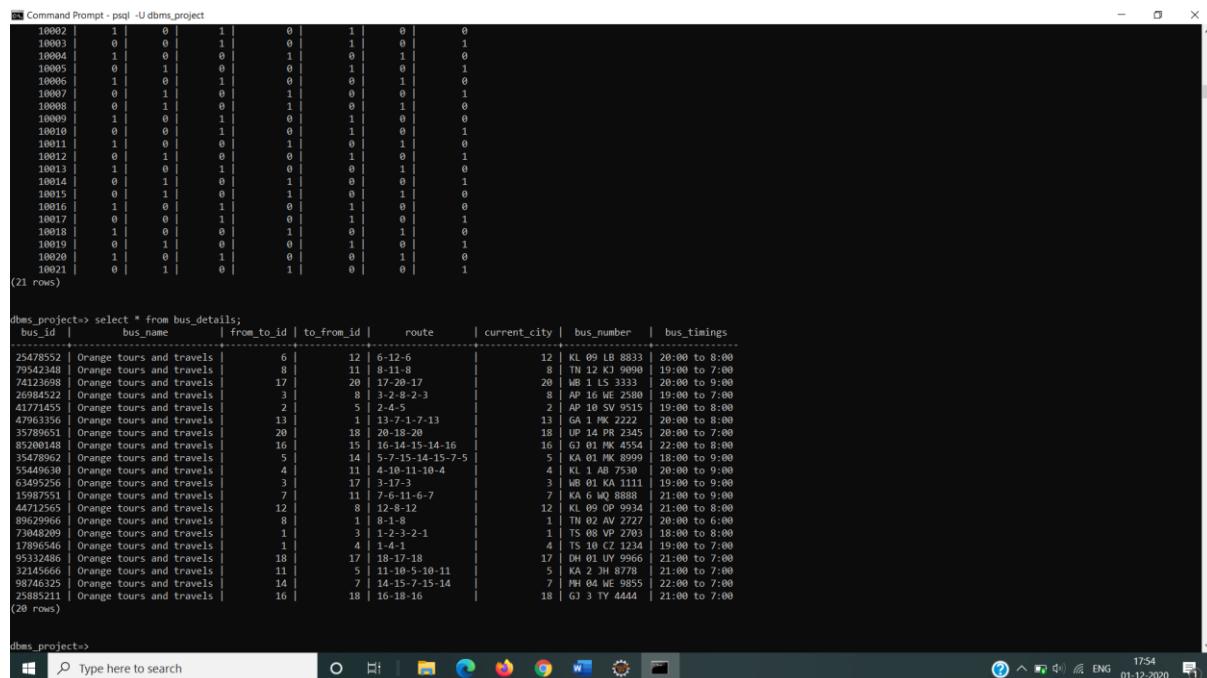
```

## Add a new bus:

Manager can add details of new bus to the database by entering proper details of the bus.

ID for the new bus should be unique.

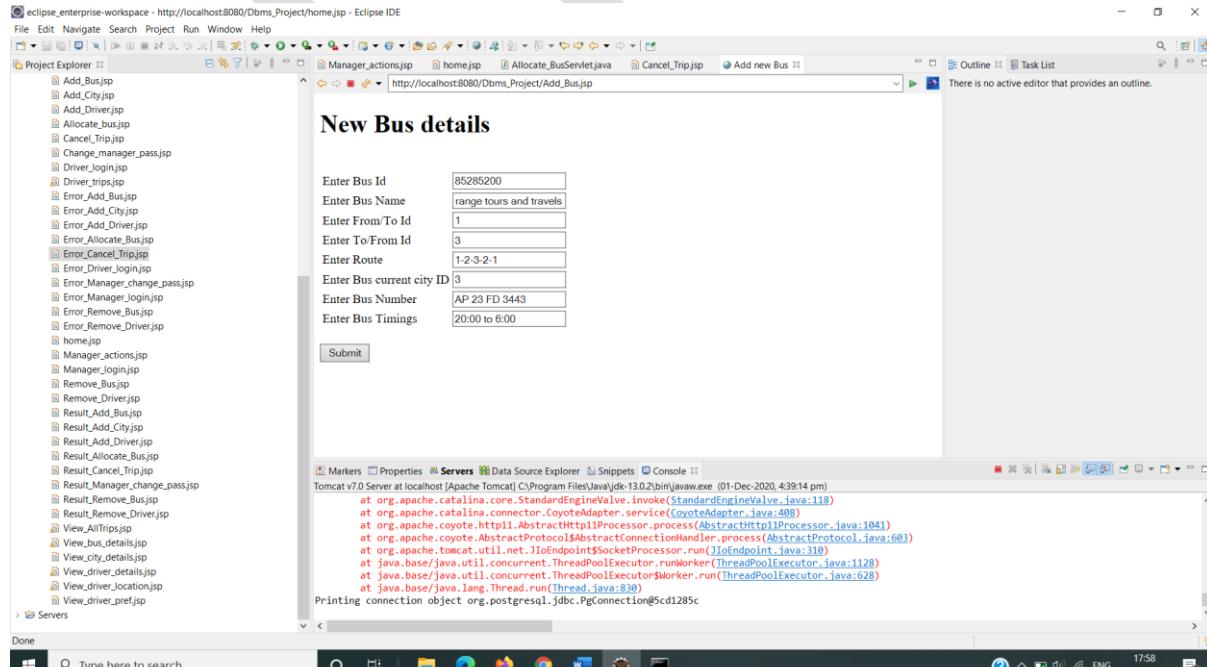
Database of bus details before adding the new bus:



```
Command Prompt - psql -U dbms_project
dbms_project=> select * from bus_details;
   bus_id | bus_name | from_to_id | to_from_id |      route | current_city | bus_number | bus_timings
-----+-----+-----+-----+-----+-----+-----+-----+
 10002 |          | 0 | 1 | 0 | 1 | 0 | 0
 10003 |          | 0 | 1 | 1 | 0 | 1 | 1
 10004 |          | 1 | 0 | 0 | 1 | 0 | 1
 10005 |          | 0 | 1 | 0 | 0 | 1 | 1
 10006 |          | 1 | 0 | 1 | 0 | 0 | 1
 10007 |          | 0 | 1 | 0 | 1 | 0 | 1
 10008 |          | 0 | 1 | 0 | 1 | 0 | 1
 10009 |          | 1 | 0 | 1 | 0 | 1 | 0
 10010 |          | 1 | 0 | 1 | 0 | 1 | 1
 10011 |          | 0 | 1 | 0 | 1 | 0 | 1
 10012 |          | 0 | 1 | 0 | 1 | 0 | 1
 10013 |          | 1 | 0 | 1 | 0 | 1 | 0
 10014 |          | 0 | 1 | 0 | 1 | 0 | 1
 10015 |          | 0 | 1 | 0 | 1 | 0 | 1
 10016 |          | 1 | 0 | 1 | 0 | 1 | 0
 10017 |          | 0 | 1 | 0 | 1 | 0 | 1
 10018 |          | 1 | 0 | 0 | 1 | 0 | 1
 10019 |          | 0 | 1 | 0 | 1 | 0 | 1
 10020 |          | 1 | 0 | 1 | 0 | 1 | 0
 10021 |          | 0 | 1 | 0 | 1 | 0 | 1
(21 rows)

dbms_project=>
```

Details of the new bus to be added:

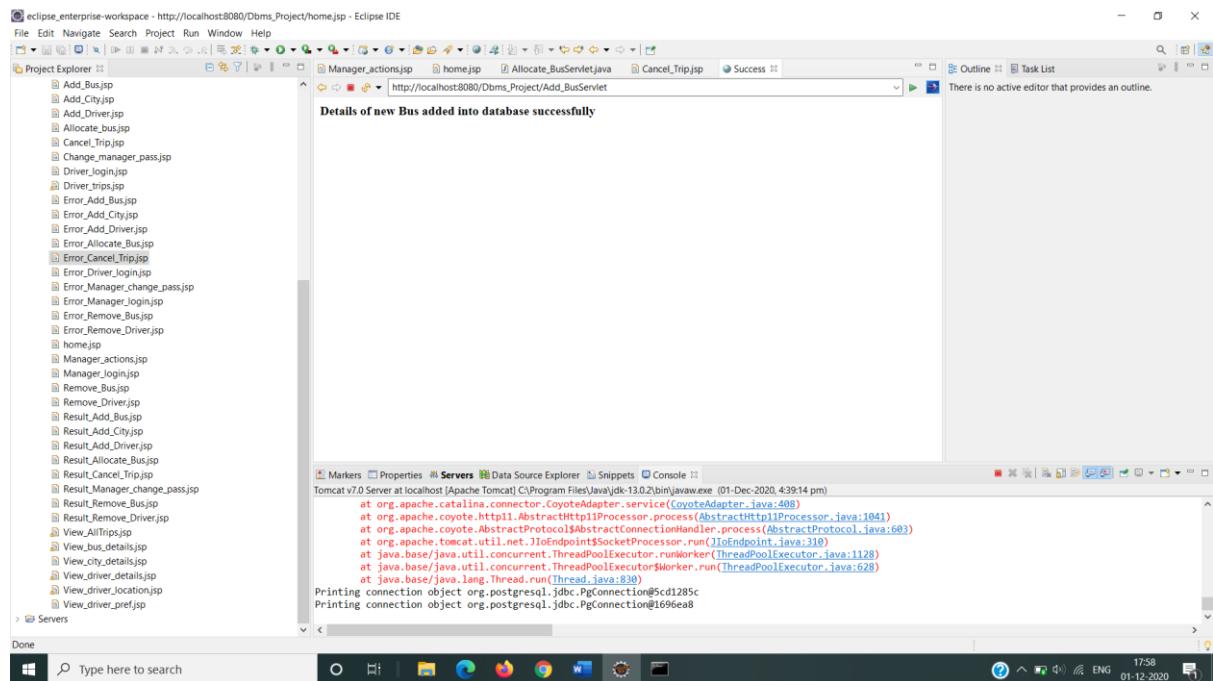


New Bus details

Enter Bus Id	85285200
Enter Bus Name	range tours and travels
Enter From/To Id	1
Enter To/From Id	3
Enter Route	1-2-3-2-1
Enter Bus current city ID	3
Enter Bus Number	AP 23 FD 3443
Enter Bus Timings	20:00 to 6:00

Submit

## Success message:



Database of bus details after adding a new base:

If the new bus ID is not unique or from location, to location of bus doesn't exist then error message will be shown.

### Invalid bus details:

New Bus details

Enter Bus Id	85285200
Enter Bus Name	Orange tours and travel
Enter From/To Id	678
Enter ToFrom Id	987
Enter Route	1-2-3-2-1
Enter Bus current city ID	987
Enter Bus Number	AP 23 FD 3443
Enter Bus Timings	20:00 to 6:00

Submit

### Error message:

Cannot add the details of new Bus  
Please check all the details properly  
Give a different ID for the new Bus  
Give proper from and to city ID's to the bus  
Current city ID should be From location or to Location

## Remove bus:

Manager needs to enter bus ID to remove its details from the database.

Database of bus details before removing the bus:

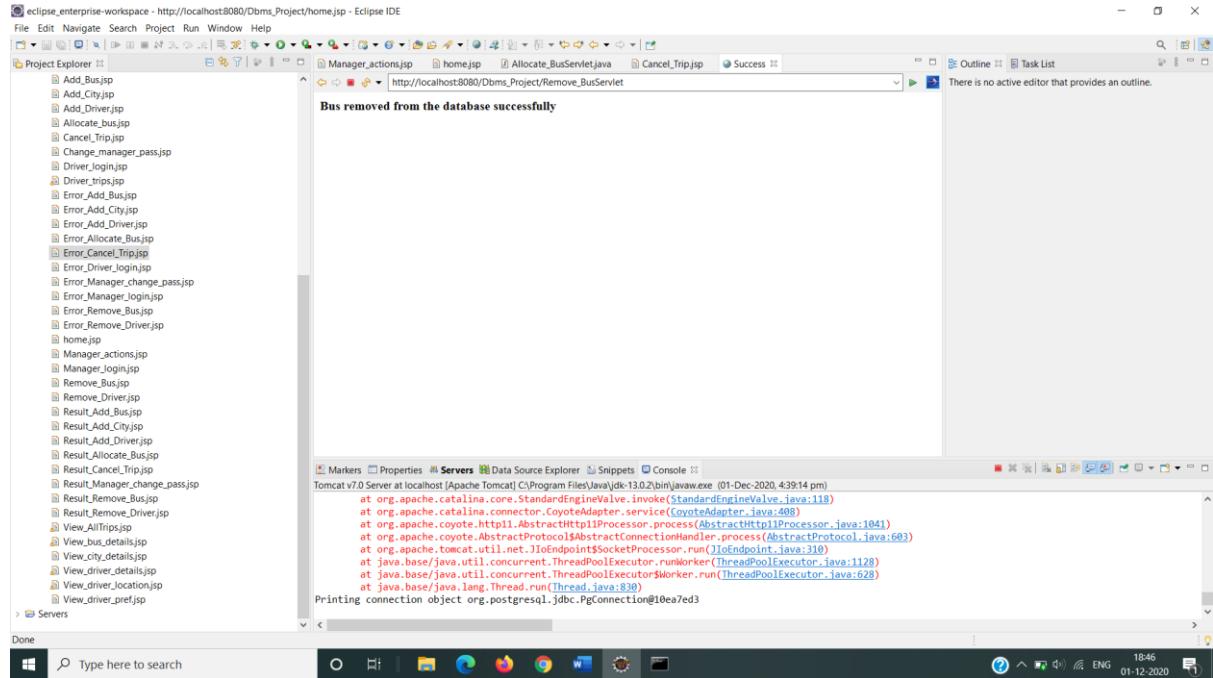
```
psql -U dbms_project
SELECT * FROM bus_details;
+-----+-----+-----+-----+-----+-----+-----+
| bus_id | bus_name | from_to_id | to_from_id | route | current_city | bus_number | bus_timings |
+-----+-----+-----+-----+-----+-----+-----+
| 79542348 | Orange tours and travels | 8 | 11 | 8-11-8 | 8 | TN 12 KJ 9990 | 19:00 to 7:00 |
| 74123698 | Orange tours and travels | 17 | 20 | 17-20-17 | 20 | WB 1 LS 3333 | 20:00 to 9:00 |
| 26984522 | Orange tours and travels | 3 | 8 | 3-2-8-2-3 | 8 | AP 16 WE 2580 | 19:00 to 7:00 |
| 41771455 | Orange tours and travels | 2 | 5 | 2-4-5 | 2 | AP 10 SV 9515 | 19:00 to 8:00 |
| 47963356 | Orange tours and travels | 13 | 1 | 13-7-1-7-13 | 13 | GA 1 MK 2222 | 20:00 to 8:00 |
| 35789651 | Orange tours and travels | 20 | 18 | 20-18-20 | 18 | UP 14 PR 2345 | 20:00 to 7:00 |
| 85200148 | Orange tours and travels | 16 | 15 | 16-14-15-14-16 | 16 | GJ 01 MK 4554 | 22:00 to 8:00 |
| 35478962 | Orange tours and travels | 5 | 14 | 5-7-15-14-15-7-5 | 5 | KA 01 MK 8999 | 18:00 to 9:00 |
| 55449356 | Orange tours and travels | 4 | 11 | 11-10-11-10-10-4 | 4 | KL 1 AB 7530 | 20:00 to 9:00 |
| 63495256 | Orange tours and travels | 3 | 17 | 3-17-3 | 3 | MB 01 KA 1111 | 20:00 to 9:00 |
| 15987551 | Orange tours and travels | 7 | 11 | 7-6-11-6-7 | 7 | KA 6 WO 8888 | 21:00 to 9:00 |
| 44712565 | Orange tours and travels | 12 | 8 | 12-8-12 | 12 | KL 09 OP 9934 | 21:00 to 8:00 |
| 89629966 | Orange tours and travels | 8 | 1 | 8-1-8 | 1 | TN 02 AV 2727 | 20:00 to 6:00 |
| 73048289 | Orange tours and travels | 1 | 3 | 1-2-3-2-1 | 1 | TS 08 VP 2703 | 18:00 to 8:00 |
| 17896546 | Orange tours and travels | 1 | 4 | 1-4-1 | 4 | TS 10 CZ 1234 | 19:00 to 7:00 |
| 95332486 | Orange tours and travels | 18 | 17 | 18-17-18 | 17 | DH 01 UY 9966 | 21:00 to 7:00 |
| 32145666 | Orange tours and travels | 11 | 5 | 11-10-5-10-11 | 5 | KA 2 JH 8778 | 21:00 to 7:00 |
| 98746325 | Orange tours and travels | 14 | 7 | 14-15-7-15-14 | 7 | MH 04 WE 9855 | 22:00 to 7:00 |
| 25885211 | Orange tours and travels | 16 | 18 | 16-18-16 | 18 | GJ 3 TY 4444 | 21:00 to 7:00 |
(20 rows)

dbms_project=> select * from bus_details;
+-----+-----+-----+-----+-----+-----+-----+
| bus_id | bus_name | from_to_id | to_from_id | route | current_city | bus_number | bus_timings |
+-----+-----+-----+-----+-----+-----+
| 25478552 | Orange tours and travels | 6 | 12 | 6-12-6 | 12 | KL 09 LB 8833 | 20:00 to 8:00 |
| 79542348 | Orange tours and travels | 8 | 11 | 8-11-8 | 8 | TN 12 KJ 9990 | 19:00 to 7:00 |
| 74123698 | Orange tours and travels | 17 | 20 | 17-20-17 | 20 | WB 1 LS 3333 | 20:00 to 9:00 |
| 26984522 | Orange tours and travels | 3 | 8 | 3-2-8-2-3 | 8 | AP 16 WE 2580 | 19:00 to 9:00 |
| 35789651 | Orange tours and travels | 20 | 18 | 20-18-20 | 18 | UP 14 PR 2345 | 20:00 to 7:00 |
| 85200148 | Orange tours and travels | 16 | 15 | 16-14-15-14-16 | 16 | GJ 01 MK 4554 | 22:00 to 8:00 |
| 35478962 | Orange tours and travels | 5 | 14 | 5-7-15-14-15-7-5 | 5 | KA 01 MK 8999 | 18:00 to 9:00 |
| 55449356 | Orange tours and travels | 4 | 11 | 11-10-11-10-4 | 4 | KL 1 AB 7530 | 20:00 to 9:00 |
| 63495256 | Orange tours and travels | 3 | 17 | 3-17-3 | 3 | MB 01 KA 1111 | 19:00 to 9:00 |
| 15987551 | Orange tours and travels | 7 | 11 | 7-6-11-6-7 | 7 | KA 6 WO 8888 | 21:00 to 9:00 |
| 44712565 | Orange tours and travels | 12 | 8 | 12-8-12 | 12 | KL 09 OP 9934 | 21:00 to 8:00 |
| 89629966 | Orange tours and travels | 8 | 1 | 8-1-8 | 1 | TN 02 AV 2727 | 20:00 to 6:00 |
| 73048289 | Orange tours and travels | 1 | 3 | 1-2-3-2-1 | 1 | TS 08 VP 2703 | 18:00 to 8:00 |
| 17896546 | Orange tours and travels | 1 | 4 | 1-4-1 | 4 | TS 10 CZ 1234 | 19:00 to 7:00 |
| 95332486 | Orange tours and travels | 18 | 17 | 18-17-18 | 17 | DH 01 UY 9966 | 21:00 to 7:00 |
| 32145666 | Orange tours and travels | 11 | 5 | 11-10-5-10-11 | 5 | KA 2 JH 8778 | 21:00 to 7:00 |
| 98746325 | Orange tours and travels | 14 | 7 | 14-15-7-15-14 | 7 | MH 04 WE 9855 | 22:00 to 7:00 |
| 25885211 | Orange tours and travels | 16 | 18 | 16-18-16 | 18 | GJ 3 TY 4444 | 21:00 to 7:00 |
(21 rows)

dbms_project=>
```

Bus ID:

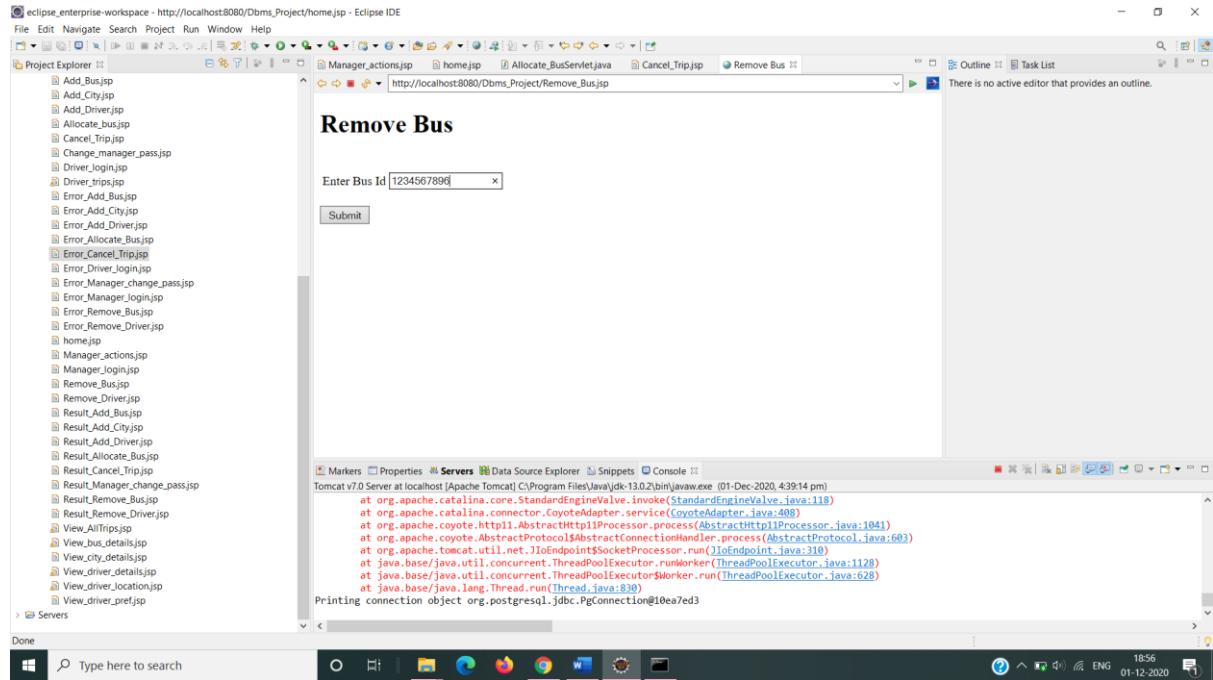
## Success message:



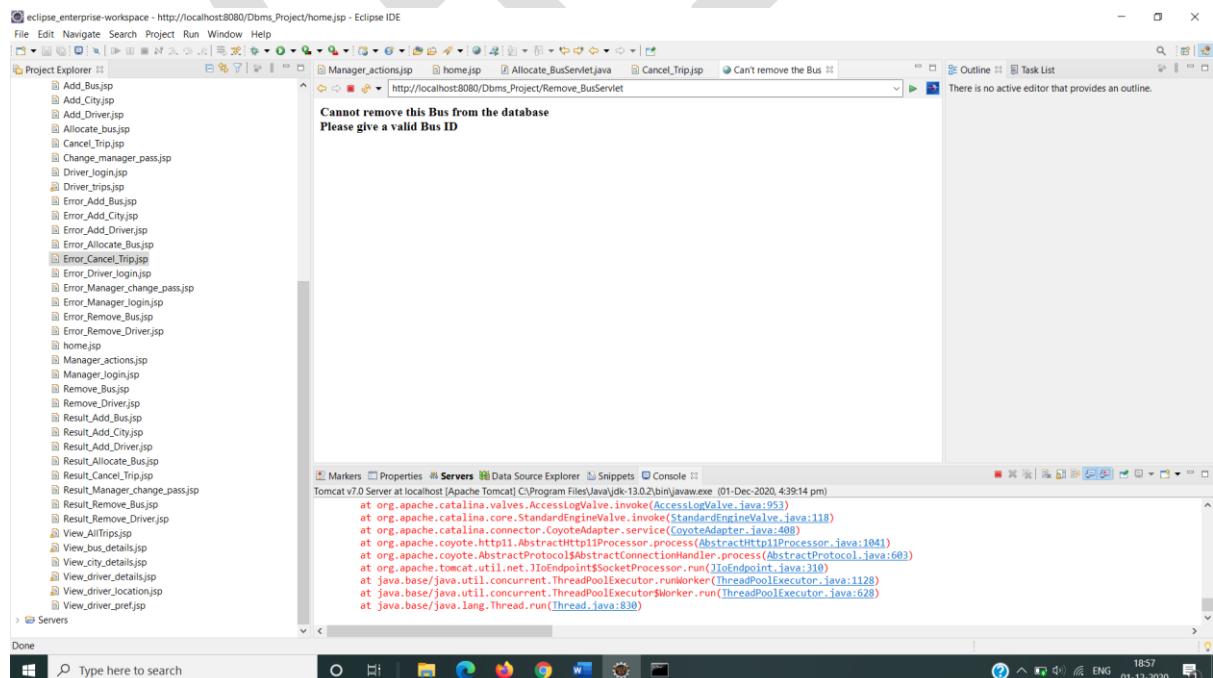
Database of bus details after removing the bus:

If the given Bus ID doesn't exist then error message will be shown:

### Wrong Bus ID:



### Error message:

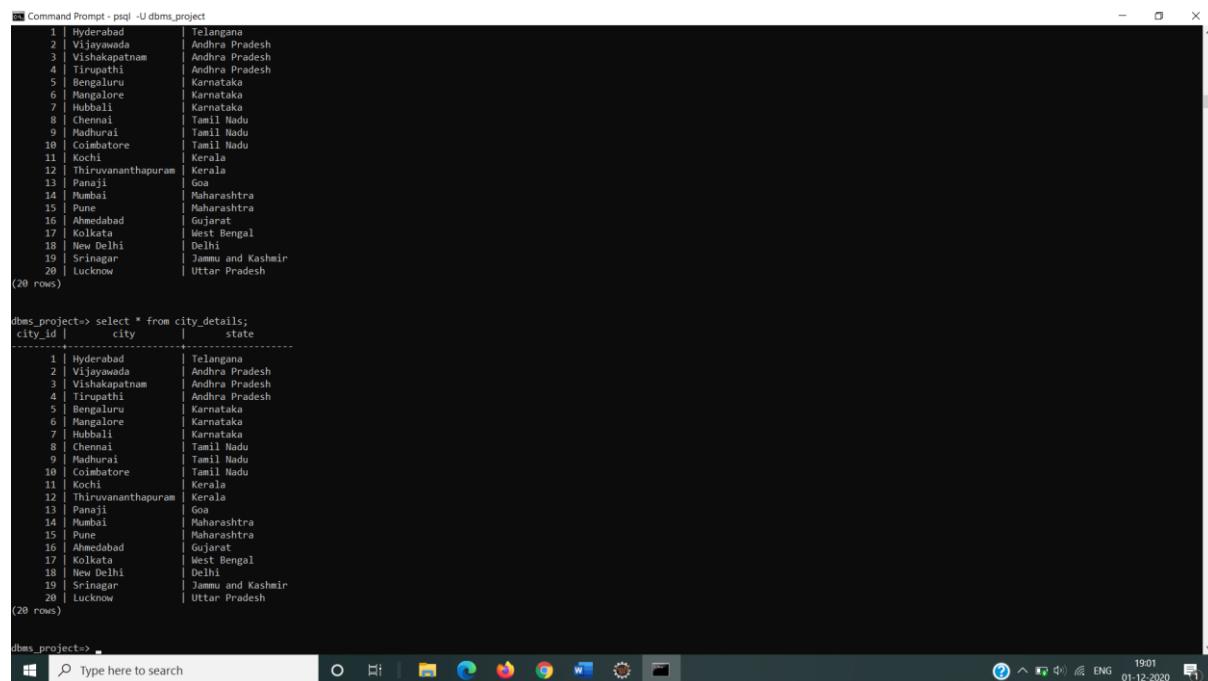


## Add a new city:

Manager can add a new city to the database by adding proper city details.

Unique city ID should be given to the new city else error message will be shown.

Database of city details before adding new city:

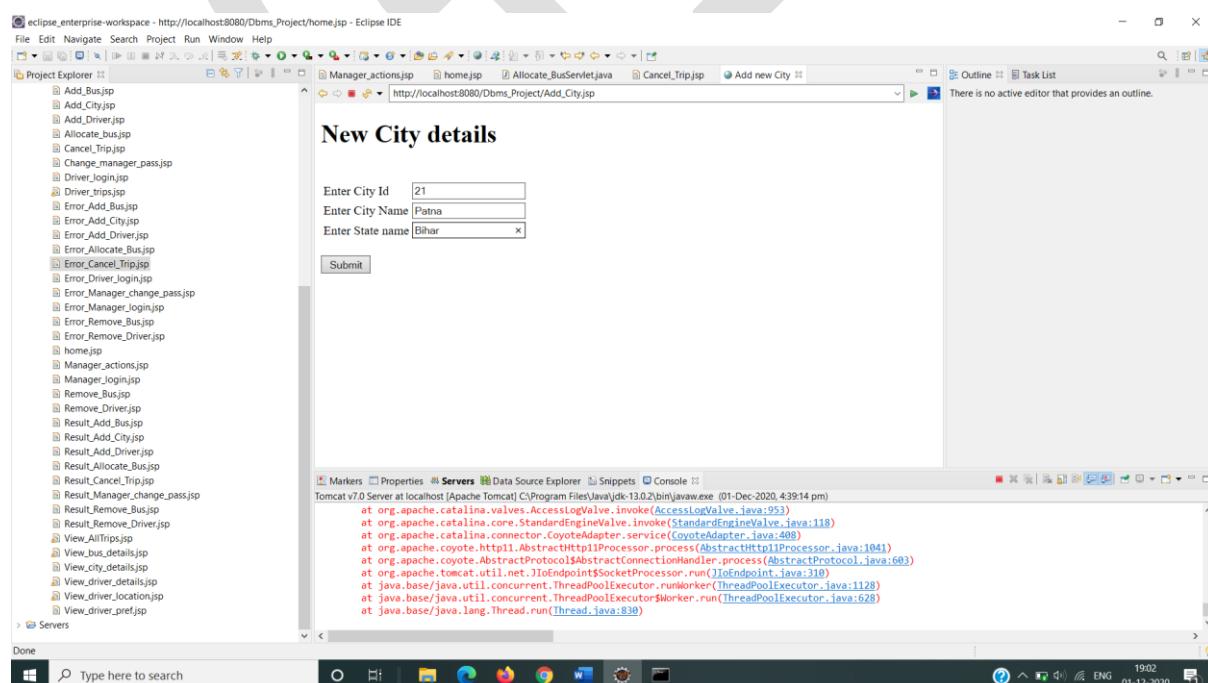


```
1 | Hyderabad | Telangana
2 | Vijayawada | Andhra Pradesh
3 | Vishakapatnam | Andhra Pradesh
4 | Tirupathi | Andhra Pradesh
5 | Bengaluru | Karnataka
6 | Mangalore | Karnataka
7 | Hubballi | Karnataka
8 | Chennai | Tamil Nadu
9 | Madurai | Tamil Nadu
10 | Coimbatore | Tamil Nadu
11 | Kochi | Kerala
12 | Thiruvananthapuram | Kerala
13 | Panaji | Goa
14 | Mumbai | Maharashtra
15 | Pune | Maharashtra
16 | Ahmedabad | Gujarat
17 | Kolkata | West Bengal
18 | New Delhi | Delhi
19 | Srinagar | Jammu and Kashmir
20 | Lucknow | Uttar Pradesh
(20 rows)

dbms_project=> select * from city_details;
+-----+-----+-----+
| city_id | city | state |
+-----+-----+-----+
| 1 | Hyderabad | Telangana
| 2 | Vijayawada | Andhra Pradesh
| 3 | Vishakapatnam | Andhra Pradesh
| 4 | Tirupathi | Andhra Pradesh
| 5 | Bengaluru | Karnataka
| 6 | Mangalore | Karnataka
| 7 | Hubballi | Karnataka
| 8 | Chennai | Tamil Nadu
| 9 | Madurai | Tamil Nadu
| 10 | Coimbatore | Tamil Nadu
| 11 | Kochi | Kerala
| 12 | Thiruvananthapuram | Kerala
| 13 | Panaji | Goa
| 14 | Mumbai | Maharashtra
| 15 | Pune | Maharashtra
| 16 | Ahmedabad | Gujarat
| 17 | Kolkata | West Bengal
| 18 | New Delhi | Delhi
| 19 | Srinagar | Jammu and Kashmir
| 20 | Lucknow | Uttar Pradesh
(20 rows)

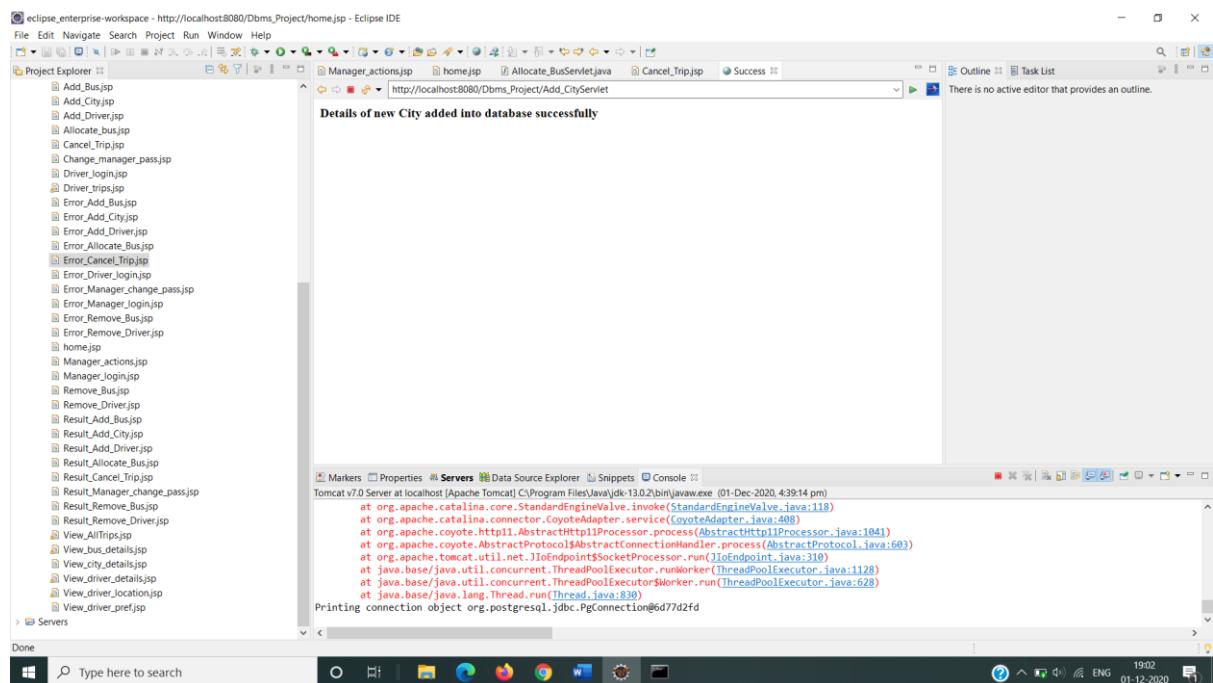
dbms_project=>
```

## Add new City page:



```
eclipse_enterprise-workspace - http://localhost:8080/Dbms_Project/home.jsp - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer [+] Add.jsp [+] Add_City.jsp [+] Add_Driver.jsp [+] Allocate_bus.jsp [+] Cancel_Trip.jsp [+] Change_manager_pass.jsp [+] Driver_login.jsp [+] Driver_trips.jsp [+] Error_Add_Bus.jsp [+] Error_Add_City.jsp [+] Error_Add_Driver.jsp [+] Error_Allocate_Bus.jsp [+] Error_Cancel_Trip.jsp [+] Error_Driver_Login.jsp [+] Error_Manager_change_pass.jsp [+] Error_Manager_login.jsp [+] Error_Remove_Bus.jsp [+] Error_Remove_Driver.jsp [+] home.jsp [+] Manager_actions.jsp [+] Manager_login.jsp [+] Remove_Bus.jsp [+] Remove_Driver.jsp [+] Result_Add_Bus.jsp [+] Result_Add_City.jsp [+] Result_Add_Driver.jsp [+] Result_Allocate_Bus.jsp [+] Result_Cancel_Trip.jsp [+] Result_Manager_change_pass.jsp [+] Result_Remove_Bus.jsp [+] Result_Remove_Driver.jsp [+] View_AllTrips.jsp [+] View_Bus_details.jsp [+] View_city_details.jsp [+] View_driver_details.jsp [+] View_driver_location.jsp [+] View_driver_pref.jsp
Markers Properties Servers Data Source Explorer Snippets Console
Tomcat v7.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk-13.0.2\bin\javaw.exe (01-Dec-2020, 4:39:14 pm)
at org.apache.catalina.valves.AccessLogValve.invoke(AccessLogValve.java:953)
at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:118)
at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:408)
at org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:1041)
at org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(AbstractProtocol.java:603)
at org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:318)
at java.base/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1128)
at java.base/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:628)
at java.base/java.lang.Thread.run(Thread.java:830)
```

Success message:



## Database of city details after adding new city:

```
Command Prompt - pgsql -U dbms.project
2 | Visayawada | Andhra Pradesh
3 | Vishakapatnam | Andhra Pradesh
4 | Tirupathi | Andhra Pradesh
5 | Bengaluru | Karnataka
6 | Mangalore | Karnataka
7 | Hubballi | Karnataka
8 | Bangalore | Karnataka
9 | Madurwai | Tamil Nadu
10 | Coimbatore | Tamil Nadu
11 | Kochi | Kerala
12 | Thiruvananthapuram | Kerala
13 | Panaji | Goa
14 | Mumbai | Maharashtra
15 | Pune | Maharashtra
16 | Ahmedabad | Gujarat
17 | Kolkata | West Bengal
18 | New Delhi | Delhi
19 | Srinagar | Jammu and Kashmir
20 | Lucknow | Uttar Pradesh
(20 rows)

dbms_project=> select * from city_details;
+-----+-----+
| city_id | city | state |
+-----+-----+
| 1 | Hyderabad | Telangana
| 2 | Visayawada | Andhra Pradesh
| 3 | Vishakapatnam | Andhra Pradesh
| 4 | Tirupathi | Andhra Pradesh
| 5 | Bengaluru | Karnataka
| 6 | Mangalore | Karnataka
| 7 | Hubballi | Karnataka
| 8 | Chennai | Tamil Nadu
| 9 | Madurwai | Tamil Nadu
| 10 | Coimbatore | Tamil Nadu
| 11 | Kochi | Kerala
| 12 | Thiruvananthapuram | Kerala
| 13 | Panaji | Goa
| 14 | Mumbai | Maharashtra
| 15 | Pune | Maharashtra
| 16 | Ahmedabad | Gujarat
| 17 | Kolkata | West Bengal
| 18 | New Delhi | Delhi
| 19 | Srinagar | Jammu and Kashmir
| 20 | Lucknow | Uttar Pradesh
| 21 | Patna | Bihar
(21 rows)
```

## View Driver details:

## Manager can view Details of all drivers

The screenshot shows the Eclipse IDE interface with the title bar "eclipse\_enterprise-workspace - http://localhost:8080/Dbms\_Project/home.jsp - Eclipse IDE". The left sidebar is the Project Explorer showing various JSP files. The main area displays a table titled "Driver Details" with four rows:

Driver Id	Driver name	Driver Password
10001	Sree	270378
10002	Srikar	123456
10003	Adithya	109829
10004	Anvesh	937028

The status bar at the bottom right shows the date and time: "01-Dec-2020, 4:39:14 pm".

## View Driver location:

Manager can view location of all the drivers

The screenshot shows the Eclipse IDE interface with the title bar "eclipse\_enterprise-workspace - http://localhost:8080/Dbms\_Project/home.jsp - Eclipse IDE". The left sidebar is the Project Explorer showing various JSP files. The main area displays a table titled "Driver current location details" with five rows:

Driver Id	Driver name	Current city name	Current city ID
10001	Sree	Chennai	8
10002	Srikar	Chennai	8
10003	Adithya	Vijayawada	2
10004	Anvesh	Bengaluru	5

The status bar at the bottom right shows the date and time: "01-Dec-2020, 4:39:14 pm".

## View Driver working days:

## Manager can view Driver working days

The screenshot shows the Eclipse IDE interface with a project named "eclipse\_enterprise-workspace". A browser window displays a JSP page titled "Driver working days". The page contains a table with columns for "Driver Id" and days of the week (Sunday through Saturday). The data shows various drivers' availability patterns. The Eclipse IDE status bar at the bottom right indicates the date as 01-12-2020 and the time as 19:12.

Driver Id	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
10001	0	1	0	1	0	1	0
10002	1	0	1	0	1	0	0
10003	0	0	1	0	1	0	1
10004	1	0	0	1	0	1	0
10005	0	1	0	0	1	0	1
10006	1	0	1	0	0	1	0
10007	0	1	0	1	0	0	1

## View city details:

Manager can view details of all the cities

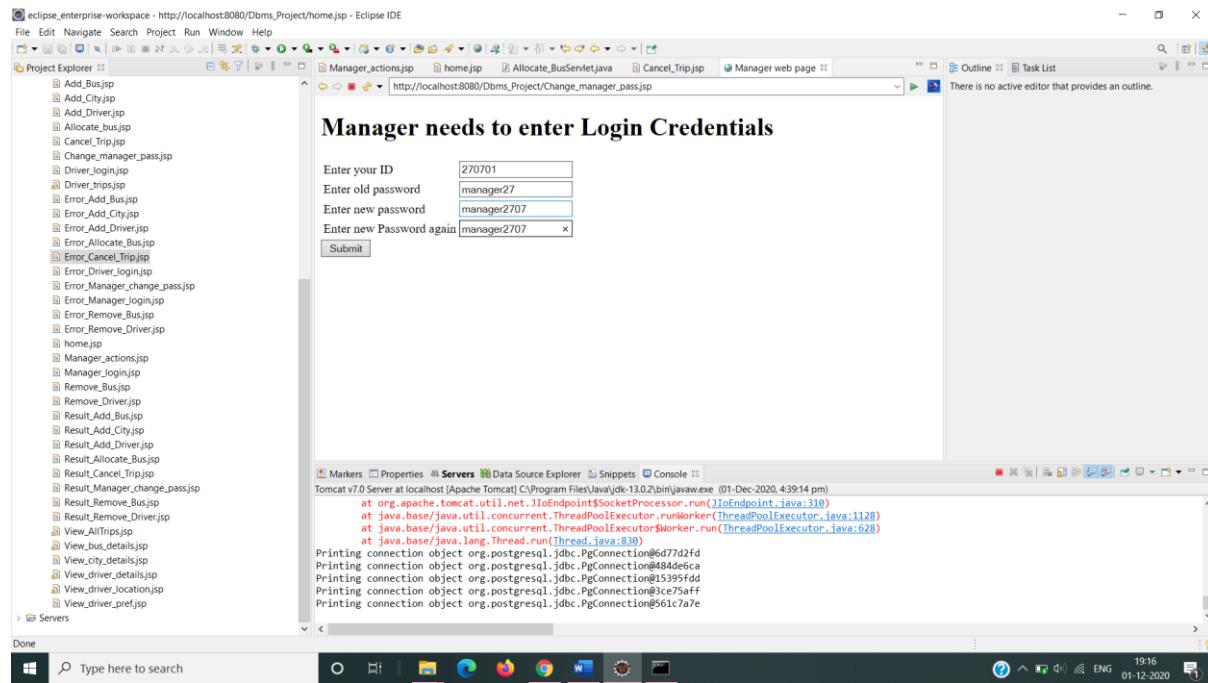
The screenshot shows the Eclipse IDE interface with a project named "eclipse\_enterprise-workspace". A browser window displays a JSP page titled "City Details". The page contains a table with columns for "City Id", "City name", and "State name". The data shows four cities: Hyderabad, Vijayawada, Vishakapatnam, and Tirupathi, each associated with its respective state. The Eclipse IDE status bar at the bottom right indicates the date as 01-12-2020 and the time as 19:12.

City Id	City name	State name
1	Hyderabad	Telangana
2	Vijayawada	Andhra Pradesh
3	Vishakapatnam	Andhra Pradesh
4	Tirupathi	Andhra Pradesh

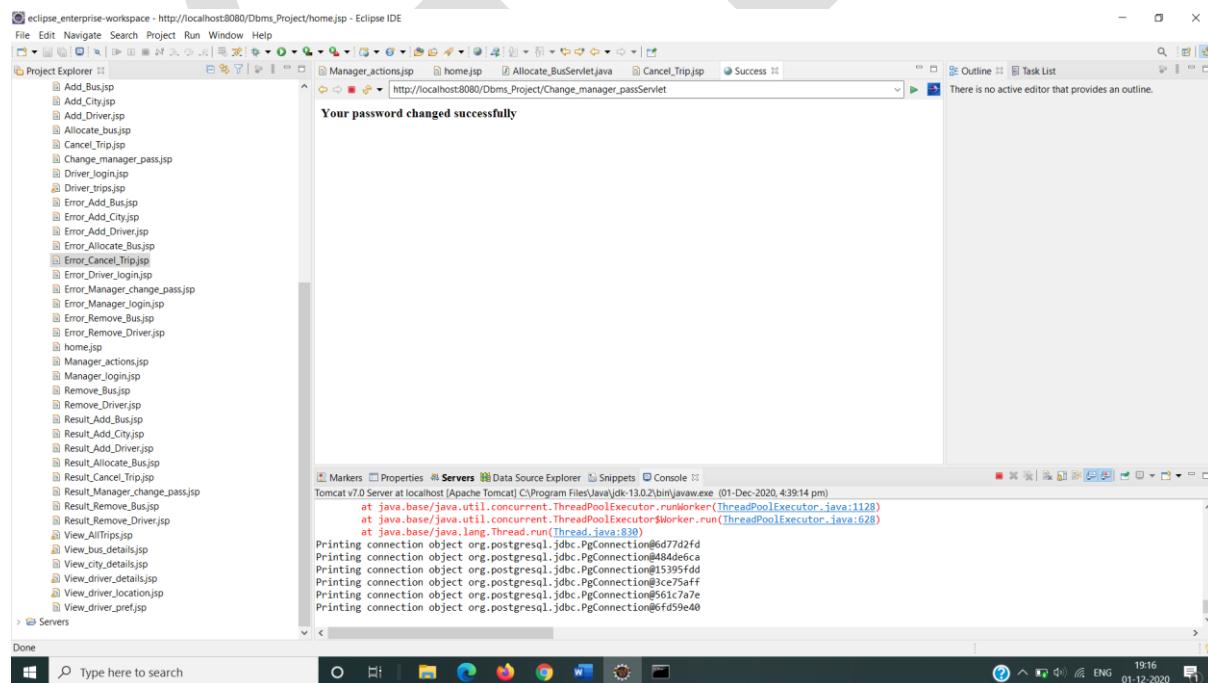
## Change password:

Manager can change his password by entering his correct credentials.

## Change password page



## Success message



If login credentials of manager entered are wrong or new password doesn't match 2 times then error message will be shown

## Wrong credentials

Manager needs to enter Login Credentials

Manager actions.jsp home.jsp Allocate\_BusServlet.java Cancel\_Trip.jsp Manager web page

Manager needs to enter Login Credentials

Enter your ID   
Enter old password   
Enter new password   
Enter new Password again   
Submit

Markers Properties Servers Data Source Explorer Snippets Console

Tomcat v7.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk-13.0.2\bin\javaw.exe (01-Dec-2020, 4:39:14 pm)  
at java.base/java.util.concurrent.ThreadPoolExecutor\$Worker.run(ThreadPoolExecutor.java:628)  
at java.base/java.util.concurrent.ThreadPoolExecutor\$Worker.run(ThreadPoolExecutor.java:628)  
Printing connection object org.postgresql.jdbc.PgConnection@6d77d2f  
Printing connection object org.postgresql.jdbc.PgConnection@484de6ca  
Printing connection object org.postgresql.jdbc.PgConnection@15395ffd  
Printing connection object org.postgresql.jdbc.PgConnection@3ce75aff  
Printing connection object org.postgresql.jdbc.PgConnection@561c7a7e  
Printing connection object org.postgresql.jdbc.PgConnection@6fd59e40  
Printing connection object org.postgresql.jdbc.PgConnection@6fd59e40

Type here to search

## Error message

Failed to change your password

Manager actions.jsp home.jsp Allocate\_BusServlet.java Cancel\_Trip.jsp Failed

Failed to change your password

Markers Properties Servers Data Source Explorer Snippets Console

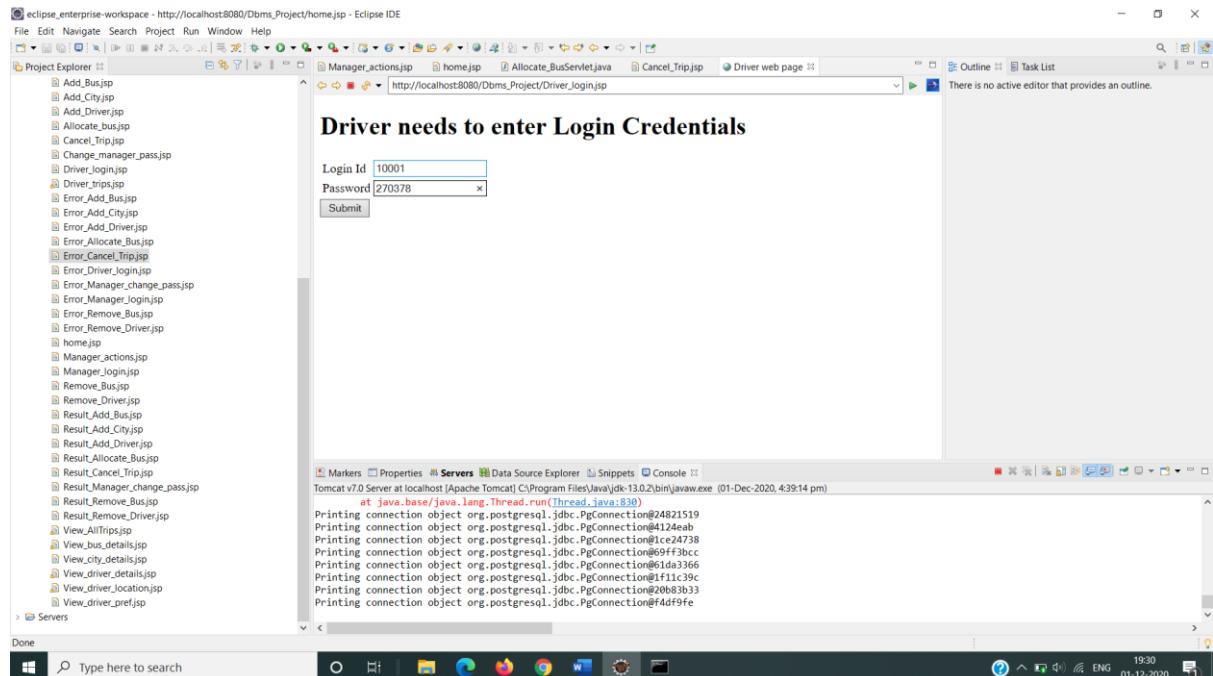
Tomcat v7.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk-13.0.2\bin\javaw.exe (01-Dec-2020, 4:39:14 pm)  
at java.base/java.util.concurrent.ThreadPoolExecutor\$Worker.run(ThreadPoolExecutor.java:628)  
at java.base/java.util.concurrent.ThreadPoolExecutor\$Worker.run(ThreadPoolExecutor.java:628)  
Printing connection object org.postgresql.jdbc.PgConnection@6d77d2f  
Printing connection object org.postgresql.jdbc.PgConnection@484de6ca  
Printing connection object org.postgresql.jdbc.PgConnection@15395ffd  
Printing connection object org.postgresql.jdbc.PgConnection@3ce75aff  
Printing connection object org.postgresql.jdbc.PgConnection@561c7a7e  
Printing connection object org.postgresql.jdbc.PgConnection@6fd59e40  
Printing connection object org.postgresql.jdbc.PgConnection@55810c9

Type here to search

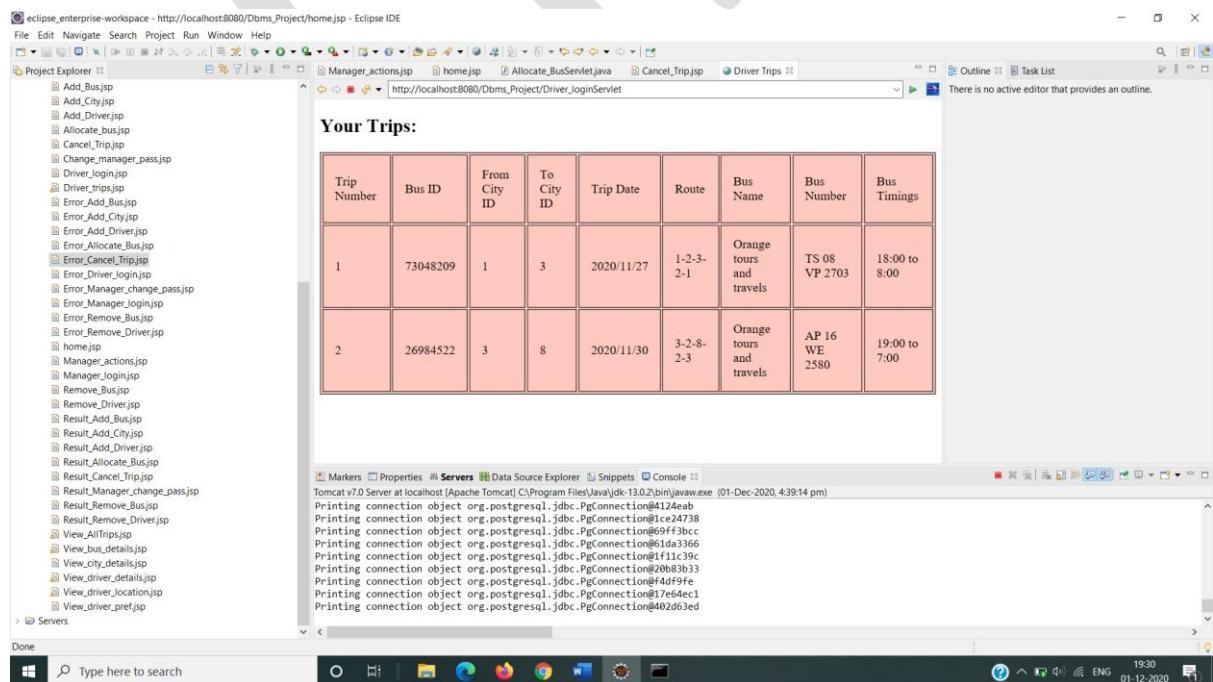
## Driver login:

Driver needs to enter his credentials for seeing his trips. If the credentials entered are wrong then error message will be shown

## Driver credentials



## Driver trips



**Data used for execution:**

**Data of Driver details:**

```
dbms_project=> select * from driver_details order by driver_id;
driver_id | driver_name | driver_password
-----+-----+-----
 10001 | Sree      | 270378
 10002 | Srikar    | 123456
 10003 | Adithya   | 109829
 10004 | Anvesh    | 937028
 10005 | Patel     | 920938
 10006 | Rahul     | 672983
 10007 | Naidu     | 029389
 10008 | Hemanth   | 893427
 10009 | Surya     | 928403
 10010 | nck       | 728904
 10011 | Ashish    | 684259
 10012 | Sharath   | 937823
 10013 | Kamal     | 634785
 10014 | Sai        | 743261
 10015 | Sheetal   | 547960
 10016 | Yashwanth | 867402
 10017 | Chakri    | 369852
 10018 | Prajeeth  | 357410
 10019 | Ashok    | 456321
 10020 | Ram       | 270301
 10021 | Bhaskar   | 471852
(21 rows)
```

```
dbms_project=>
```



Type here to search



**Data of Driver working days in a week:**

```
dbms_project=> select * from driver_pref;
driver_id | sunday | monday | tuesday | wednesday | thursday | friday | saturday
-----+-----+-----+-----+-----+-----+-----+-----+
10001 |     0 |     1 |     0 |      1 |      0 |     1 |      0
10002 |     1 |     0 |     1 |      0 |      1 |     0 |      0
10003 |     0 |     0 |     1 |      0 |      1 |     0 |      1
10004 |     1 |     0 |     0 |      1 |      0 |     1 |      0
10005 |     0 |     1 |     0 |      0 |      1 |     0 |      1
10006 |     1 |     0 |     1 |      0 |      0 |     1 |      0
10007 |     0 |     1 |     0 |      1 |      0 |     0 |      1
10008 |     0 |     1 |     0 |      1 |      0 |     1 |      0
10009 |     1 |     0 |     1 |      0 |      1 |     0 |      0
10010 |     0 |     0 |     1 |      0 |      1 |     0 |      1
10011 |     1 |     0 |     0 |      1 |      0 |     1 |      0
10012 |     0 |     1 |     0 |      0 |      1 |     0 |      1
10013 |     1 |     0 |     1 |      0 |      0 |     1 |      0
10014 |     0 |     1 |     0 |      1 |      0 |     0 |      1
10015 |     0 |     1 |     0 |      1 |      0 |     1 |      0
10016 |     1 |     0 |     1 |      0 |      1 |     0 |      0
10017 |     0 |     0 |     1 |      0 |      1 |     0 |      1
10018 |     1 |     0 |     0 |      1 |      0 |     1 |      0
10019 |     0 |     1 |     0 |      0 |      1 |     0 |      1
10020 |     1 |     0 |     1 |      0 |      0 |     1 |      0
10021 |     0 |     1 |     0 |      1 |      0 |     0 |      1
(21 rows)
```

```
dbms_project=>
```

**Data of Driver locations:**

```
dbms_project=> select * from driver_location;
driver_id | driver_name | current_city | city_id
-----+-----+-----+-----+
 10021 | Bhaskar      | Chennai       |     8
 10002 | Srikar       | Vishakapatnam |     3
 10003 | Adithya      | Bengaluru     |     5
 10006 | Rahul         | Hyderabad     |     1
 10010 | nck           | Hyderabad     |     1
 10013 | Kamal          | Mumbai         |    14
 10016 | Yashwanth     | Ahmedabad     |    16
 10017 | Chakri         | Chennai        |     8
 10020 | Ram            | Mangalore     |     6
 10004 | Anvesh          | Bengaluru     |     5
 10018 | Prajeeth       | Bengaluru     |     5
 10009 | Surya          | Mumbai         |    14
 10011 | Ashish          | Vishakapatnam |     3
 10001 | Sree            | Chennai        |     8
 10005 | Patel           | Hyderabad     |     1
 10007 | Naidu           | Hyderabad     |     1
 10008 | Hemanth         | Tirupathi     |     4
 10012 | Sharath          | Kolkata        |    17
 10014 | Sai              | Bengaluru     |     5
 10015 | Sheetal          | Hubballi      |     7
 10019 | Ashok           | New Delhi     |    18
(21 rows)
```

```
dbms_project=>
```



Type here to search



### Data of Bus details:

```
dbms_project=> select * from bus_details;
+-----+-----+-----+-----+-----+-----+-----+-----+
| bus_id | bus_name | from_to_id | to_from_id | route | current_city | bus_number | bus_timings |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 79542348 | Orange tours and travels | 8 | 11 | 8-11-8 | 8 | TN 12 KJ 9090 | 19:00 to 7:00
| 74123698 | Orange tours and travels | 17 | 20 | 17-20-17 | 20 | WB 1 LS 3333 | 20:00 to 9:00
| 26984522 | Orange tours and travels | 3 | 8 | 3-2-8-2-3 | 3 | AP 16 WE 2580 | 19:00 to 7:00
| 41771455 | Orange tours and travels | 2 | 5 | 2-4-5 | 5 | AP 10 SV 9515 | 19:00 to 8:00
| 17896546 | Orange tours and travels | 1 | 4 | 1-4-1 | 1 | TS 10 CZ 1234 | 19:00 to 7:00
| 47963356 | Orange tours and travels | 13 | 1 | 13-7-1-7-13 | 1 | GA 1 MK 2222 | 20:00 to 8:00
| 98746325 | Orange tours and travels | 14 | 7 | 14-15-7-15-14 | 14 | MH 04 WE 9855 | 22:00 to 7:00
| 25885211 | Orange tours and travels | 16 | 18 | 16-18-16 | 16 | GJ 3 TY 4444 | 21:00 to 7:00
| 89629966 | Orange tours and travels | 8 | 1 | 8-1-8 | 8 | TN 02 AV 2727 | 20:00 to 6:00
| 25478552 | Orange tours and travels | 6 | 12 | 6-12-6 | 6 | KL 09 LB 8833 | 20:00 to 8:00
| 35789651 | Orange tours and travels | 20 | 18 | 20-18-20 | 18 | UP 14 PR 2345 | 20:00 to 7:00
| 85200148 | Orange tours and travels | 16 | 15 | 16-14-15-14-16 | 16 | GJ 01 MK 4554 | 22:00 to 8:00
| 35478962 | Orange tours and travels | 5 | 14 | 5-7-15-14-15-7-5 | 5 | KA 01 MK 8999 | 18:00 to 9:00
| 55449630 | Orange tours and travels | 4 | 11 | 4-10-11-10-4 | 4 | KL 1 AB 7530 | 20:00 to 9:00
| 63495256 | Orange tours and travels | 3 | 17 | 3-17-3 | 3 | WB 01 KA 1111 | 19:00 to 9:00
| 15987551 | Orange tours and travels | 7 | 11 | 7-6-11-6-7 | 7 | KA 6 WQ 8888 | 21:00 to 9:00
| 44712565 | Orange tours and travels | 12 | 8 | 12-8-12 | 12 | KL 09 OP 9934 | 21:00 to 8:00
| 73048209 | Orange tours and travels | 1 | 3 | 1-2-3-2-1 | 1 | TS 08 VP 2703 | 18:00 to 8:00
| 95332486 | Orange tours and travels | 18 | 17 | 18-17-18 | 17 | DH 01 UY 9966 | 21:00 to 7:00
| 32145666 | Orange tours and travels | 11 | 5 | 11-10-5-10-11 | 5 | KA 2 JH 8778 | 21:00 to 7:00
(20 rows)
```

```
dbms_project=>
```



```
Type here to search
```



### Data of Manager details:

```
dbms_project=> select * from manager_details;
+-----+-----+-----+
| manager_id | manager_name | manager_password |
+-----+-----+-----+
| 270701 | Sreeram | manager27 |
(1 row)
```

```
dbms_project=>
```



```
Type here to search
```

**Data of City details:**

```
dbms_project=> select * from city_details;
  city_id |      city        |      state
-----+-----+-----+
    1 | Hyderabad       | Telangana
    2 | Vijayawada     | Andhra Pradesh
    3 | Vishakapatnam  | Andhra Pradesh
    4 | Tirupathi       | Andhra Pradesh
    5 | Bengaluru       | Karnataka
    6 | Mangalore       | Karnataka
    7 | Hubballi        | Karnataka
    8 | Chennai          | Tamil Nadu
    9 | Madhurai         | Tamil Nadu
   10 | Coimbatore      | Tamil Nadu
   11 | Kochi            | Kerala
   12 | Thiruvananthapuram | Kerala
   13 | Panaji           | Goa
   14 | Mumbai            | Maharashtra
   15 | Pune              | Maharashtra
   16 | Ahmedabad         | Gujarat
   17 | Kolkata           | West Bengal
   18 | New Delhi         | Delhi
   19 | Srinagar          | Jammu and Kashmir
   20 | Lucknow           | Uttar Pradesh
   21 | Patna             | Bihar
(21 rows)
```

```
dbms_project=>
```



Type here to search

## Data of Trip details:

This data is not used to do the project. It is the data generated after allocating trips daily.

trip_no	bus_id	from_city_id	to_city_id	driver_id	trip_date	route	bus_name	bus_number	bus_timings
1	55449630	4	11	10002	2020/11/26	4-10-11-10-4	Orange tours and travels	KL 1 AB 7530	20:00 to 9:00
2	41771455	2	5	10003	2020/11/26	2-4-5	Orange tours and travels	AP 10 SV 9515	19:00 to 8:00
3	25478552	6	12	10005	2020/11/26	6-12-6	Orange tours and travels	KL 09 LB 8833	20:00 to 8:00
4	98746325	14	7	10009	2020/11/26	14-15-7-15-14	Orange tours and travels	MH 04 WE 9855	22:00 to 7:00
5	47963356	13	1	10010	2020/11/26	13-7-1-7-13	Orange tours and travels	GA 1 MK 2222	20:00 to 8:00
6	74123698	17	20	10012	2020/11/26	17-20-17	Orange tours and travels	WB 1 LS 3333	20:00 to 9:00
7	63495256	3	17	10016	2020/11/26	3-17-3	Orange tours and travels	WB 01 KA 1111	19:00 to 9:00
8	17896546	1	4	10017	2020/11/26	1-4-1	Orange tours and travels	TS 10 CZ 1234	19:00 to 7:00
9	85200148	16	15	10019	2020/11/26	16-14-15-14-16	Orange tours and travels	GJ 01 MK 4554	22:00 to 8:00
10	73048209	1	3	10001	2020/11/27	1-2-3-2-1	Orange tours and travels	TS 08 VP 2703	18:00 to 8:00
11	35478962	5	14	10004	2020/11/27	5-7-15-14-15-7-5	Orange tours and travels	KA 01 MK 8999	18:00 to 9:00
12	15987551	7	11	10006	2020/11/27	7-6-11-6-7	Orange tours and travels	KA 6 WQ 8888	21:00 to 9:00
13	89629966	8	1	10008	2020/11/27	8-1-8	Orange tours and travels	TN 02 AV 2727	20:00 to 6:00
14	95332486	18	17	10011	2020/11/27	18-17-18	Orange tours and travels	DH 01 UY 9966	21:00 to 7:00
15	79542348	8	11	10013	2020/11/27	8-11-8	Orange tours and travels	TN 12 KJ 9090	19:00 to 7:00
16	32145666	11	5	10018	2020/11/27	11-10-5-10-11	Orange tours and travels	KA 2 JH 8778	21:00 to 7:00
17	26984522	3	8	10020	2020/11/27	3-2-8-2-3	Orange tours and travels	AP 16 WE 2580	19:00 to 7:00
18	41771455	5	2	10003	2020/11/28	2-4-5	Orange tours and travels	AP 10 SV 9515	19:00 to 8:00
19	44712565	12	8	10005	2020/11/28	12-8-12	Orange tours and travels	KL 09 OP 9934	21:00 to 8:00
20	26984522	8	3	10007	2020/11/28	3-2-8-2-3	Orange tours and travels	AP 16 WE 2580	19:00 to 7:00
21	47963356	1	13	10010	2020/11/28	13-7-1-7-13	Orange tours and travels	GA 1 MK 2222	20:00 to 8:00
22	35789651	20	18	10012	2020/11/28	20-18-20	Orange tours and travels	UP 14 PR 2345	20:00 to 7:00
23	32145666	5	11	10014	2020/11/28	11-10-5-10-11	Orange tours and travels	KA 2 JH 8778	21:00 to 7:00
24	17896546	4	1	10017	2020/11/28	1-4-1	Orange tours and travels	TS 10 CZ 1234	19:00 to 7:00
25	85200148	15	16	10019	2020/11/28	16-14-15-14-16	Orange tours and travels	GJ 01 MK 4554	22:00 to 8:00
26	89629966	1	8	10021	2020/11/28	8-1-8	Orange tours and travels	TN 02 AV 2727	20:00 to 6:00
27	79542348	11	8	10002	2020/11/29	8-11-8	Orange tours and travels	TN 12 KJ 9090	19:00 to 7:00
28	35478962	14	5	10004	2020/11/29	5-7-15-14-15-7-5	Orange tours and travels	KA 01 MK 8999	18:00 to 9:00
29	55449630	11	4	10006	2020/11/29	4-10-11-10-4	Orange tours and travels	KL 1 AB 7530	20:00 to 9:00
30	98746325	7	14	10009	2020/11/29	14-15-7-15-14	Orange tours and travels	MH 04 WE 9855	22:00 to 7:00
31	63495256	17	3	10011	2020/11/29	3-17-3	Orange tours and travels	WB 01 KA 1111	19:00 to 9:00
32	15987551	11	7	10013	2020/11/29	7-6-11-6-7	Orange tours and travels	KA 6 WQ 8888	21:00 to 9:00
33	95332486	17	18	10016	2020/11/29	18-17-18	Orange tours and travels	DH 01 UY 9966	21:00 to 7:00
34	44712565	8	12	10020	2020/11/29	12-8-12	Orange tours and travels	KL 09 OP 9934	21:00 to 8:00
35	26984522	3	8	10001	2020/11/30	3-2-8-2-3	Orange tours and travels	AP 16 WE 2580	19:00 to 7:00
36	89629966	8	1	10005	2020/11/30	8-1-8	Orange tours and travels	TN 02 AV 2727	20:00 to 6:00
37	73048209	3	1	10007	2020/11/30	1-2-3-2-1	Orange tours and travels	TS 08 VP 2703	18:00 to 8:00
38	17896546	1	4	10008	2020/11/30	1-4-1	Orange tours and travels	TS 10 CZ 1234	19:00 to 7:00
39	95332486	18	17	10012	2020/11/30	18-17-18	Orange tours and travels	DH 01 UY 9966	21:00 to 7:00
40	32145666	11	5	10014	2020/11/30	11-10-5-10-11	Orange tours and travels	KA 2 JH 8778	21:00 to 7:00
41	98746325	14	7	10015	2020/11/30	14-15-7-15-14	Orange tours and travels	MH 04 WE 9855	22:00 to 7:00
42	25885211	16	18	10019	2020/11/30	16-18-16	Orange tours and travels	GJ 3 TY 4444	21:00 to 7:00
43	26984522	8	3	10002	2020/12/01	3-2-8-2-3	Orange tours and travels	AP 16 WE 2580	19:00 to 7:00
44	41771455	2	5	10003	2020/12/01	2-4-5	Orange tours and travels	AP 10 SV 9515	19:00 to 8:00
45	17896546	4	1	10006	2020/12/01	1-4-1	Orange tours and travels	TS 10 CZ 1234	19:00 to 7:00
46	47963356	13	1	10010	2020/12/01	13-7-1-7-13	Orange tours and travels	GA 1 MK 2222	20:00 to 8:00
47	98746325	7	14	10013	2020/12/01	14-15-7-15-14	Orange tours and travels	MH 04 WE 9855	22:00 to 7:00

## Deviations from the design document:

Our Project phase 2 is the design document. There no much differences from the design document.

Format of the sample SQL tables given in design document remains same.

We added few extra actions to the manager which are not mentioned in the design document. Main duty for manager is Allocating buses to drivers which is remains same.

Extra actions we added to manager are:

Add/Remove Driver

Add/ Remove Bus

Cancelling any upcoming Trip

## **Work distribution among the group:**

Work by Adithya (180010007):

- 1) SQL Tables and Data required
- 2) Application Idea and Design
- 3) All view options of the Manager. Such as

View all the trips

View City details

View Bus details

View Driver details

View Driver location

View Driver working days

Work by Srikar (180010016):

- 1) Application Idea and Design
- 2) ER model, Relational database, designing plan of all the modules required
- 3) Driver login page

Driver login servlet

Trips allocated to driver

Work by Sree Ramu (180010020):

- 1) Application Idea and Design
- 2) All other Manager options such as:

Allocating bus to a driver	Cancel trip	Add new city
Add/Remove Driver	Add/Remove Bus	Change Password
- 3) Servlets required for above options to the manager

This is how the work is distributed among us.

---

----- Thank you -----