Bus Reservation and Pass

Prepared By: T.Y.M.sc.(C.A & I.T) (2015-2016)

1. Halani Dip N.

2.Rathod Saurabh K.

Bus Reservation and Pass

BY 3RD YEAR. MSC (CA&IT)(2015-2016)

Student Name	Roll No
HalaniDip N.	3186
RathodSaurabh K.	3222

NAME OF COMPANY

Digimation

REPORT SUBMITTED TO

K.S.SchoolOf Business Management And Research

Date of Submission: 3rdDecember, 2015.

Project Coordinator

Mr.DharmeshSangara

ACKNOWLEDGEMENT

Knowledge is a continuous Process. Knowledge has power. It has been said knowledge is end only with life end. But Knowledge is not only acquisition of fact and figures. It is a continuous process of acquiring wisdom though practical education.

This project is an outcome of infinite encouragement. We group member would like to express our sincere gratitude to the Master of Science in Computer Application and Information Technology for introducing the project work in our application.

Our sincere thanks to *Mr. Hitesh Paramar*, joint Director of institute for encourage such project to our field of study. We also thanks to our Project coordinate *Mr. DharmeshSangara* for providing guidance and support during this project.

We extend our sincere thanks to our project guider of *Digimation*. For accommodating me in the project and having faith in me.

Our special thanks to the faculty of *K.S.S.B.M Institute of MSC (CA&IT)* whose co-operation and inspiration, our endeavour would not have met with success.

From,
Dip Halani
Saurabh Rathod

INDEX

No	Table Of Contents		Page No
1	**Company Profile**		**05**
2	**Project Profile**		**06**
	2.1	Project Definition	
	2.2	Current System	
	2.3	Proposed System	
3	**System Requirement And Specification**		**07**
4	**System Design**		**15**
	4.1	DFD Diagram	
	4.2	E-R-D Diagram	
	4.3	System Flow Diagram	
	4.4	Data Dictionary	
5	**Input-Output Design(Screen Shoats)**		**23**
6	**Testing**		**36**
7	**Conclusion(Future Scope, Limitation)**		**41**
8	**Bibliography**		**42**

1. Company Profile

Digimation started with the goal to march forward in various faces with novel ideas. We strongly believe that every creation follows the strategically strong principles and the innovative judgments. Our great asset – skilled professionals, make us ever growing organization. By maintain long lasting relations with people and technology, we have gained the place of global admirer and a fair business entity. Timely achievement of targets and professionally qualitative results is our true identity. We deliver admirable results by incorporating the lessons from the past projects and adventures.

We have the key capabilities in the fields of:

- Web Development
- Research & Market Analysis
- Offshore Development
- QA outsourcing
- Networking

We have dedicated professionals in following areas,

- JQuery Mobile
- Android
- PHP
- .NET
- Java

We have enthusiastic team with long term steadiness which makes it possible to commit the timely results. Our team follows time tested procedures and structures for development. Our customers are completely involved in all the phases of product development and hence we are able to maintain the lucidity in our developments. For project development we follow responsive development strategies from the very beginning stage of planning to deployment and hosting.

2. Project Profile

2.1 Project Definition

In this website people can book the ticket of bus anywhere anytime and also they can Have pass from website.

2.2 Current System

- People Need To Ask For Schedule Or Have To Visit Particular Place.
- People Have To Book Ticket Manually
- Pass Is Manually Obtained

2.3 Proposed System

- People can see schedule anytime
- People can book, cancel ticket and select seat/s
- People can get passonline

3. System Requirement and Specification

3.1 Hardware Requirement

Processor	:	Minimum Pentium
RAM	:	128 MB or More

3.2 Software Requirement

Web Browse

3.3Technology Used

3.3.1Frontend Technology

- JSP-Servlet:
- HTML5:
- CSS:
- JQUERY:

3.3.2**Frontend Tools:**

- Dreamweaver CS6
- Photoshop CS6
- Eclipse

3.3.3 Backend Technology:

- MYSQL:

3.3.4 Backend Tools

- MySQL

3.3.5 Web server

Apache Tomcat 7

3.3.5Testing Tools:

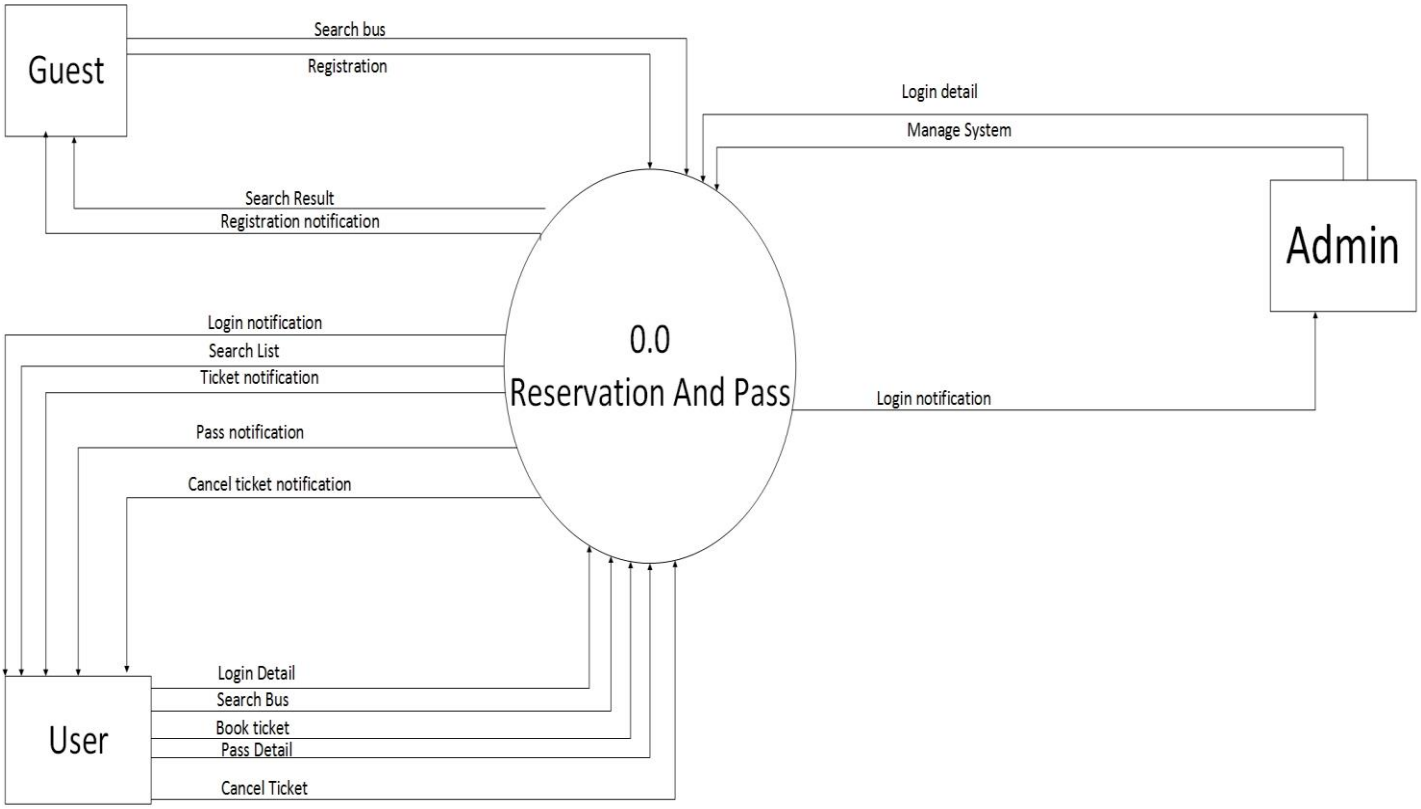
- Firebug

System Design

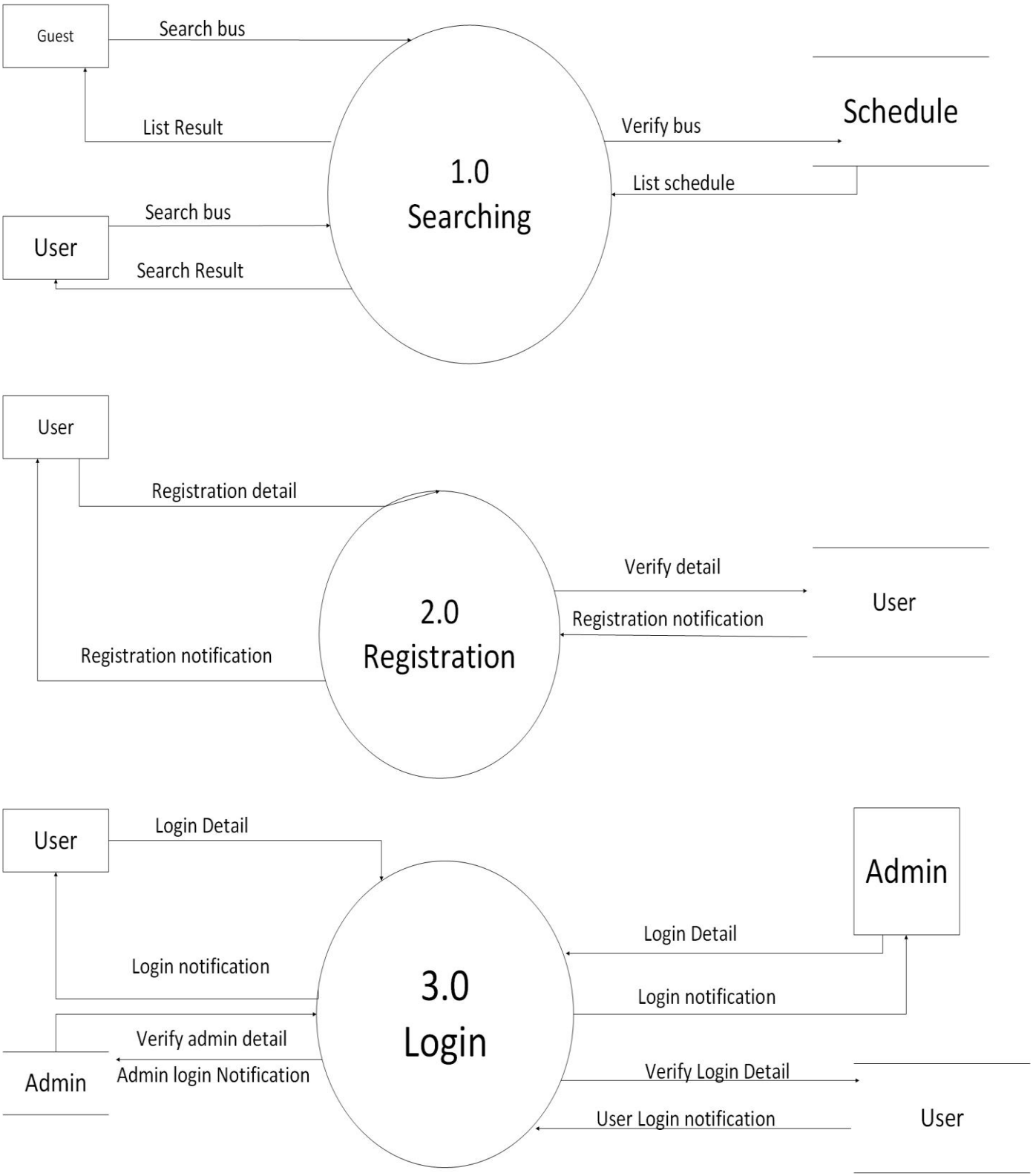
4. System Design

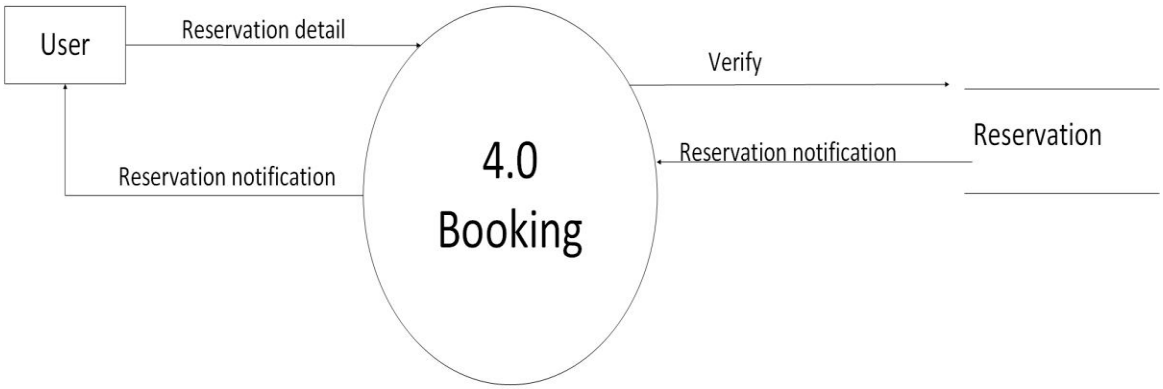
4.0 Data Flow Diagram

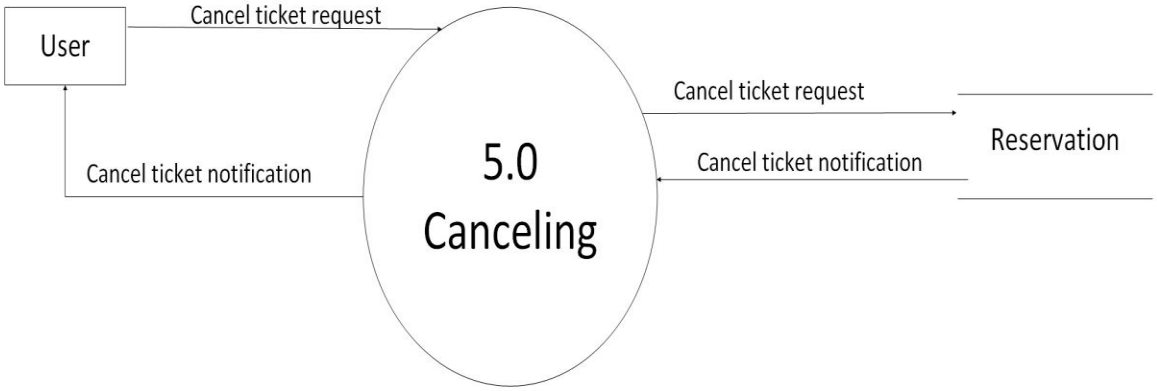
Context Level

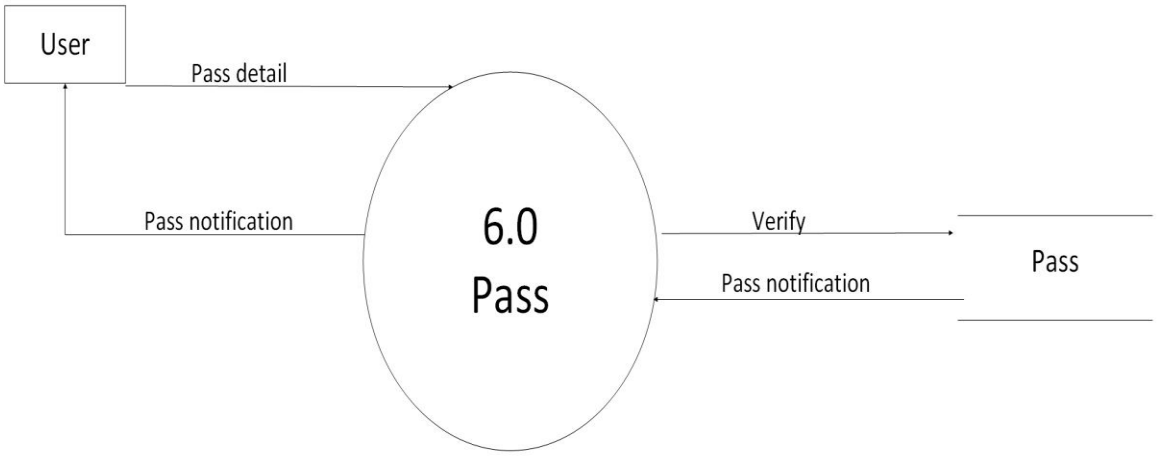


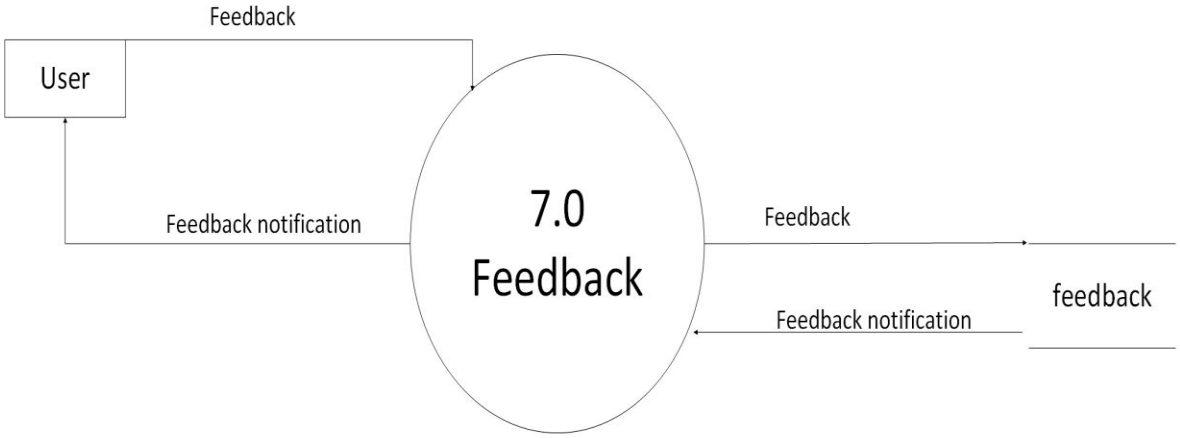
First Level DFD



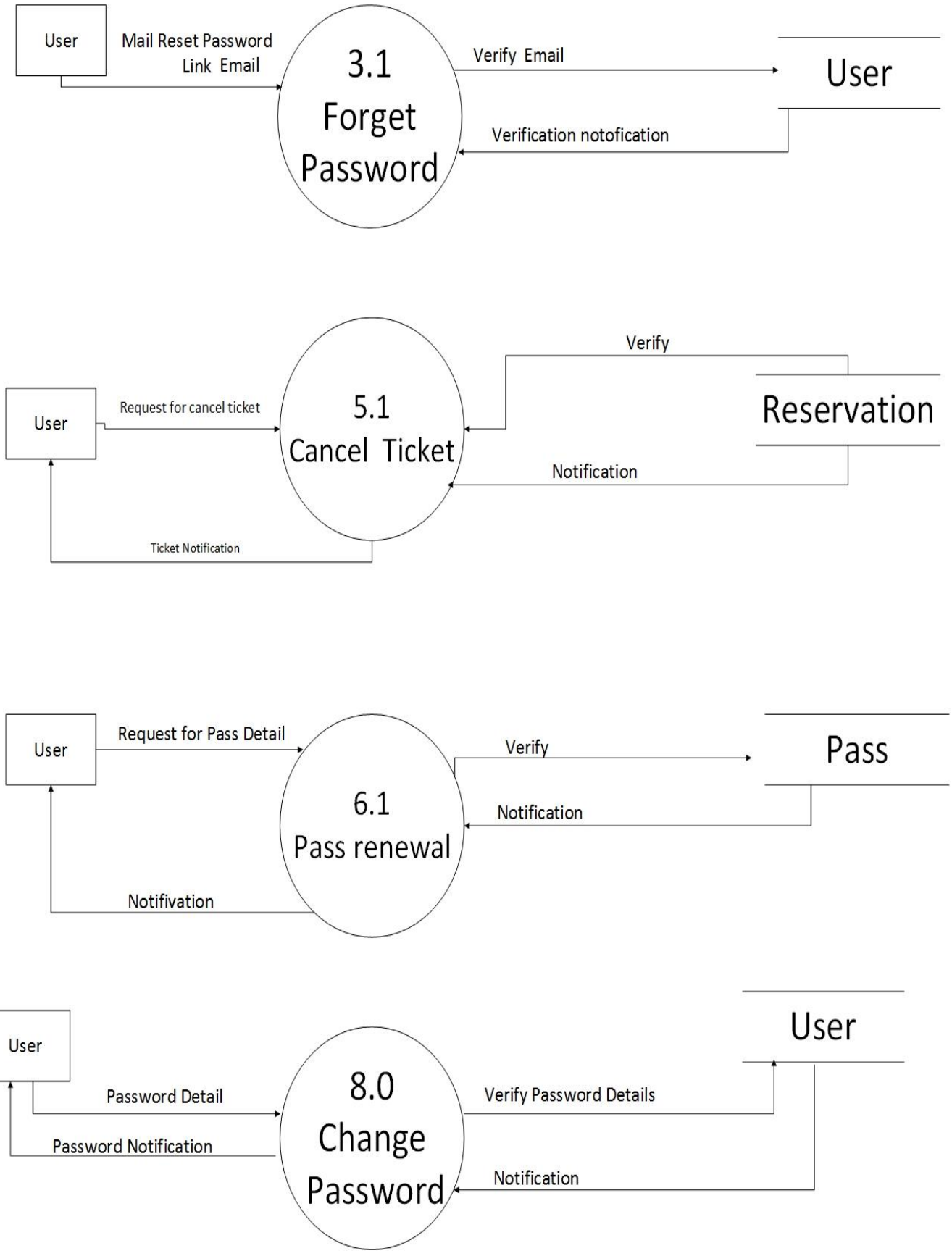

User
Reservation detail
Verify
Reservation
Reservation notification
4.0
Booking
Reservation notification


User
Cancel ticket request
Cancel ticket request
Reservation
Cancel ticket notification
5.0
Canceling
Cancel ticket notification

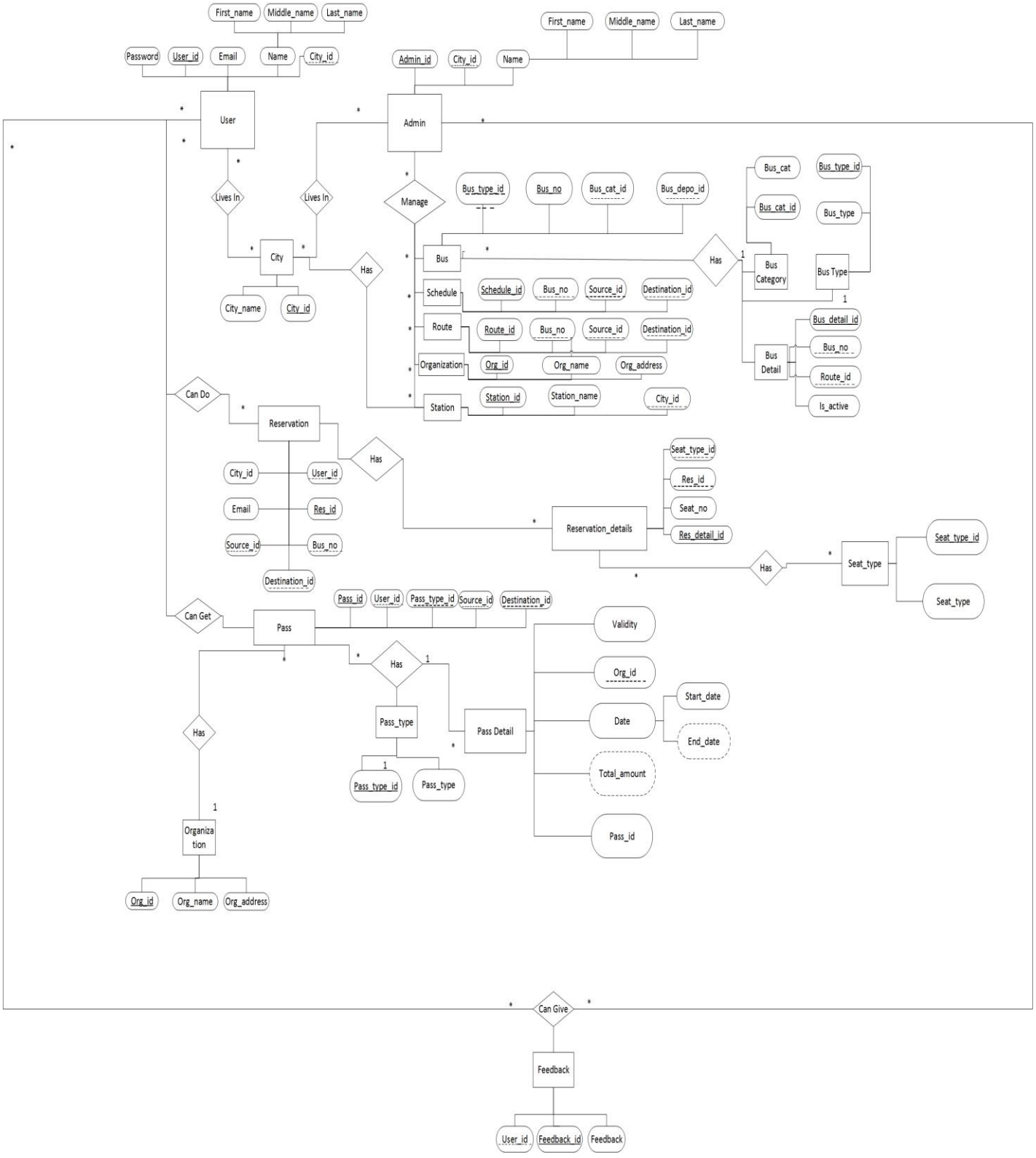

User
Pass detail
Verify
Pass
Pass notification
6.0
Pass
Pass notification


Feedback
User
Feedback
Feedback notification
7.0
Feedback
feedback
Feedback notification

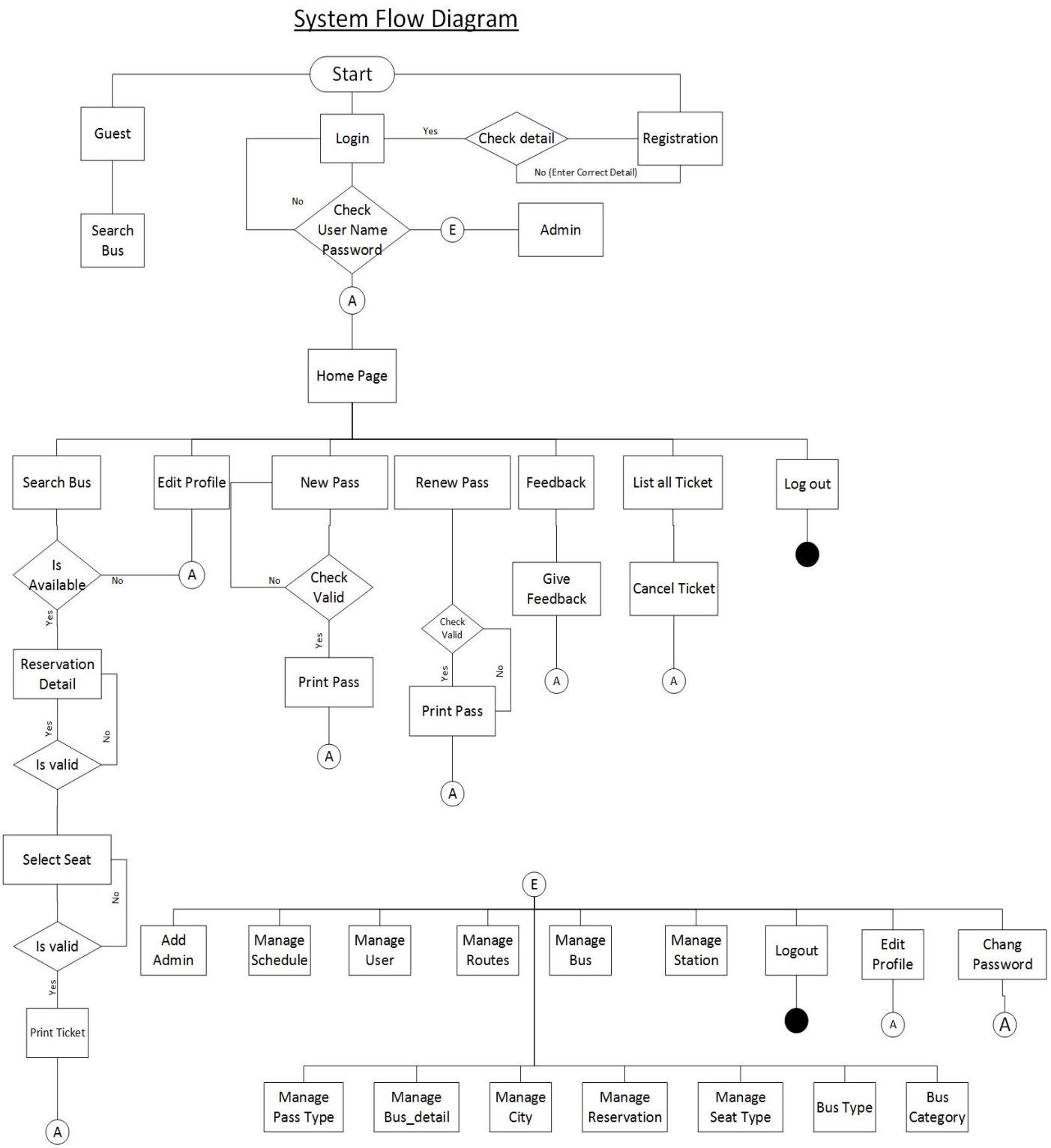
SecondLevel DFD



1.3 Entity Relationship Diagram



3.0 System Flow Diagram



DATADICTIONARY

Table No 1

Table Name: User

Field Name	DataType	Field Length	Constraints	Description
User_id	Int	10	Primary Key, auto increment	User id
First_Name	Varchar	15	Not null	First Name of User
Middle_Name	Varchar	15	Not null	Middle Name of User
Last_Name	Varchar	15	Not Null	Last Name of User
Email	Varchar	30	Unique, Not null	User Email id
Password	Text	-	Not null	Encrypted password for user login
Mobile_no	Varchar	10	Not null	User mobile number
Gender	Char	1	Not null	User gender
City_id	Int	5	Foreign Key	From City table
Address	Varchar	50	Not null	User Address
Is_active	Char	1	Not null,default=”y”	User active or not

Table No: 2

Table Name: Route

Field Name	Data Type	Field Length	Constraints	Description
Route_id	Int	5	Primary key ,auto increment	Id of route
Source_id	Int	5	Foreign key	From Station Table[Station_id]
Destionation_id	Int	5	Foreign key	From Station Table[Station_id]
Is_avalible	Char	1	Not null	Is route available or not

Table no: 3

Table Name: Pass

Field Name	Data Type	Field Length	Constraints	Description
Pass_id	Int	5	Primary Key,auto increment	Pass id
User_id	Int	10	Foreign key	From user table
Pass_Type_id	Tinyint	2	Foreign key	From Pass Type table
Source_id	Int	5	Not null	From station table [station_id]
Destination_id	Int	5	Not null	From station table [station_id]
Photo	Text	-	Not null	Photo of passholder
org_id	Int	5	Foreign key	From organization table
Start_term_date	Date	-	-	Start term date
End_term_date	Date	-	-	End term date
Term_validity	Tinyint	1	Not null	Term validity in months

Table no: 4

Table Name: Pass type

Field Name	Data Type	Field Length	Constraints	Description
Pass_type_id	Tinyint	2	Primary key,auto_ increment	Pass type id
Pass_type	Varchar	7	Not null	Pass type

Table No: 5

Table Name: Pass_Detail

Field Name	Data Type	Field Length	Constraints	Description
Pass_id	Int	5	Foreign key	From table Pass
Start_date	Date	-	Not null	Starting date of pass
End_date	Date	-	Not null	Ending date of pass
Validity	TinyInt	1	Not null	Pass validity
Amount	Int	5	Not null	Total pass amount

Table No: 6

Table Name: Organization

Field Name	Data Type	Field Length	Constraints	Description
org_id	Int	5	Primary key, auto increment	Organization ID
org_name	Varchar	30	Not null	Organization name
org_address	Varchar	50	Not null	Organization Address

Table No: 7

Table Name: City

Field Name	Data Type	Field Length	Constraints	Description
City_id	Int	5	Primary key,auto increment	City id
City_name	Varchar	30	Not null	City name

Table No: 8

Table Name: Reservation

Field Name	Data Type	Field Length	Constraints	Description
Res_id	Int	5	Primary key ,auto increment	Reservation id
User_id	Int	10	Foreign key	From User Table
Source_id	Int	5	Foreign key	From Station Table[Station_id]
Destination_id	Int	5	Foreign Key	From Station Table[Station_id]
Total_Amount	Int	5	Not null	seats*distance*0.8
No_of_seat	Tinyint	1	Not null	How many seats user want
Res_date	Date	-	Not null	Reservation date
Bus_no	Varchar	12	Foreign key	From bus table
Jouney_Date	Date	-	Not null	Journey date
isCancel	Char	1	Not null ,default='n'	Is booking cancelled or not
Distance	Int	5	Not null	Distance in km

Table no:9

Table Name: Reservation_Detail

Field Name	Data Type	Field Length	Constraints	Description
Res_id	Int	5	Foreign key	From Reservation Table
Seat_no	Tinyint	2	Foreign key	Seat no
Seat_type_id	Tinyint	2	Not null	From Seat_Type table

Table No: 10

Table Name: Admin

Field Name	Data Type	Field Length	Constraints	Description
Admin_id	Int	5	Primary key,Auto increment	Admin id
First_name	Varchar	15	Not null	Admin First Name
Middle_name	Varchar	15	Not null	Admin Middle Name
Last_name	Varchar	15	Not null	Admin last Name
City_id	Int	5	Foreign key	From City Table
Email	Varchar	30	Unique, Not null	Admin email
Password	Varchar	Text	Not null	Encrypted password for admin login

Table No: 11

Table Name: Bus

Field Name	Data Type	Field Length	Constraints	Description
Bus_No	Varchar	12	Primary key	Bus number
Bus_Type_id	Varchar	7	Foreign key	From Bus_Type table
Capacity	Int	3	Not null	Capacity of bus
Is_available	Char	1	Not null,default='y'	Bus availability
Bus_categoty_id	Tinyint	2	Foreign key	From table Bus_Category
Bus_depo_id	Tinyint	5	Foreign key	From table City[City_id]

Table No: 12

Table Name: Schedule

Field Name	Data Type	Field Length	Constraints	Description
Schedule_id	Int	5	Primary key,auto_incerment	Schedule id
Bus_ detail_id	Int	5	Foreign key	From Bus_detail table

Table No: 13

Table Name: Station

Field Name	Data Type	Field Length	Constraints	Description
Station_id	Int	5	Primary key, Auto increment	Station id
S_Name	Varchar	15	Not null	Station Name
City_id	Int	5	Foreign key	From City table

Table No: 14

Table Name: Feedback

Field Name	Data Type	Field Length	Constraints	Description
Feedback_id	Int	5	Primary Key,auto_increment	Feedback id
User_id	Int	10	Foreign Key	From User Table
Feedback	Text	-	Not null	Feedback from User

Table No: 15

Table Name: Seat_type

Field Name	Data Type	Field Length	Constrains	Description
Seat_Type_id	Tinyint	2	Primary Key,auto_increment	Seat id
Seat_type	Varchar	10	Not null	Seat type

Table No:16

Table Name: Bus_Type

Field Name	Data Type	Field Length	Constraints	Description
Bus_type_id	Tinyint	1	Primary key ,auto increment,	Bus type id
Bus_type	Varchar	10	Not null	Bus type

Table No:17

Table Name: Bus_Category

Field Name	Data Type	Field Length	Constraints	Description
Bus_ category _id	Tinyint	1	Auto increment, primary key	Bus type id
Bus_categoty	Varchar	10	Not null	Bus Category

Table no:18

Table Name: Bus_detail

Field Name	Data Type	Field Length	Constraints	Description
Bus_detail_id	Int	5	Primary key	Bus Detail id
Bus_No	Varchar	12	Primary key	Bus number
Route_id	Int	5	Foreign key	From Route table
Is_available	Char	1	Not null,default='y'	availability

Table No: 19

Table Name: Schedule _details

Field Name	Data Type	Field Length	Constraints	Description
Schedule_id	Int	5	Fkkey,auto_incerment	Schedule id
Source_id	Int	5	Foreign key	From Station Table[Station_id]
Destination__id	Int	5	Foreign key	From Station Table[Station_id]
Departure_Time	Time	-	Not null	Departure time of bus
Week_off_day	Int	1	-	Weekend day at which bus will not come
off_date	Date	-	-	Date which bus will not come
Arrival_time	Time	5	Not null	Arrival time
Time_taken	Int	5	Not null	Reach time in min
Distance	Int	5	Not null	Distance between source and destination

INPUT-OUTPUT DESIGN

5.Input-Output Design

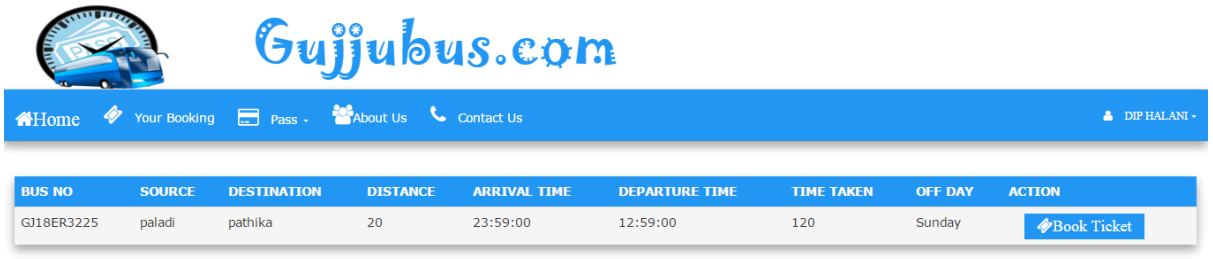
Index Page:

User Signup Form:

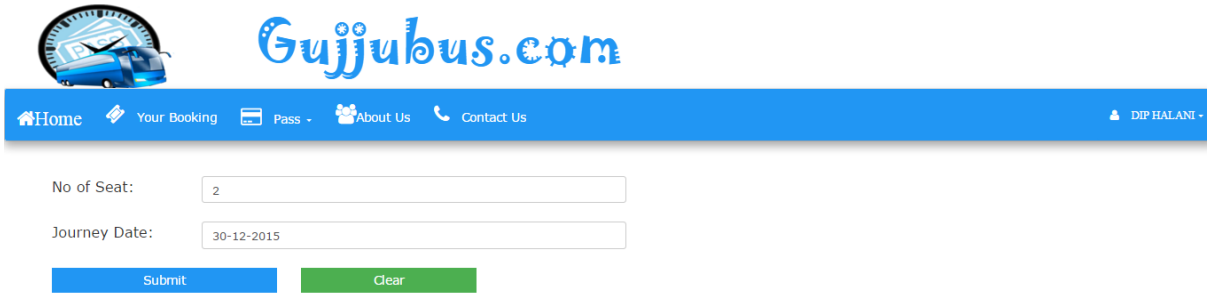
Login Failed Page:

Home Page of User:

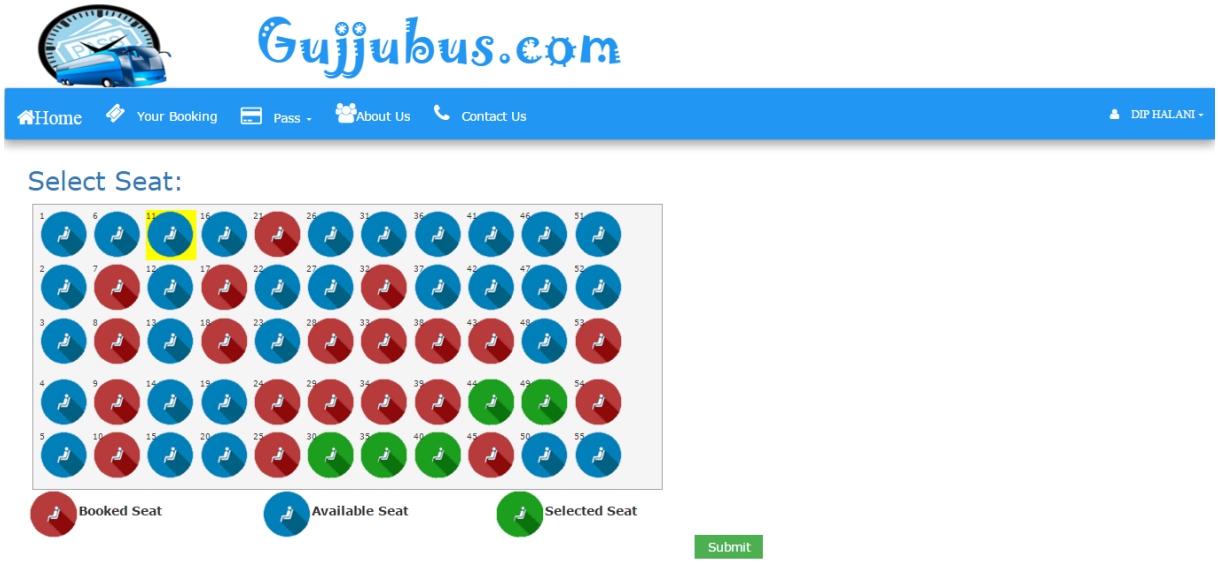
User can Search Schedule and Book Ticket



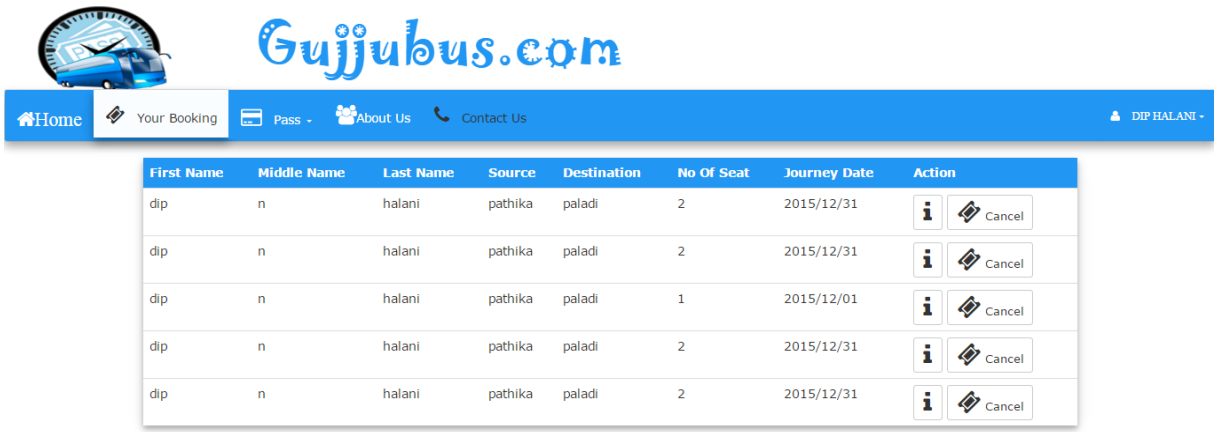
Select Number of Seat and date:



Use Can Chose Particular Seat/s:



User also cancel Ticket:

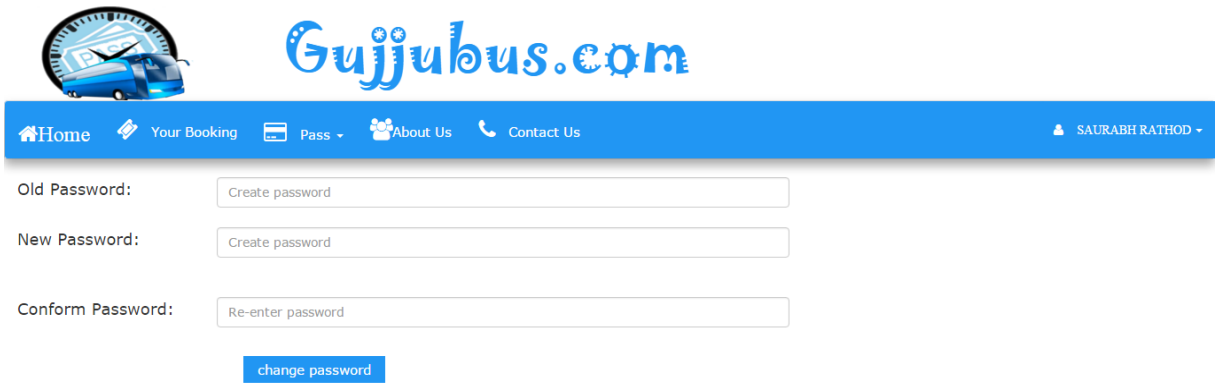


New Pass Form:

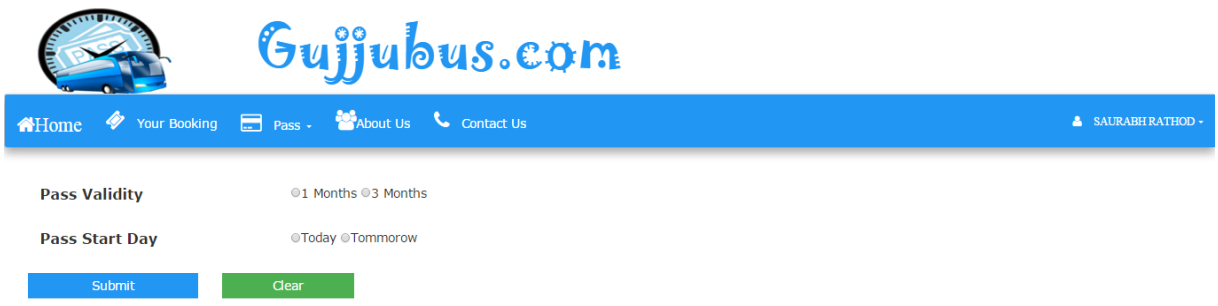
Confirmation of Pass:

Edit Profile Page:

Change Password:



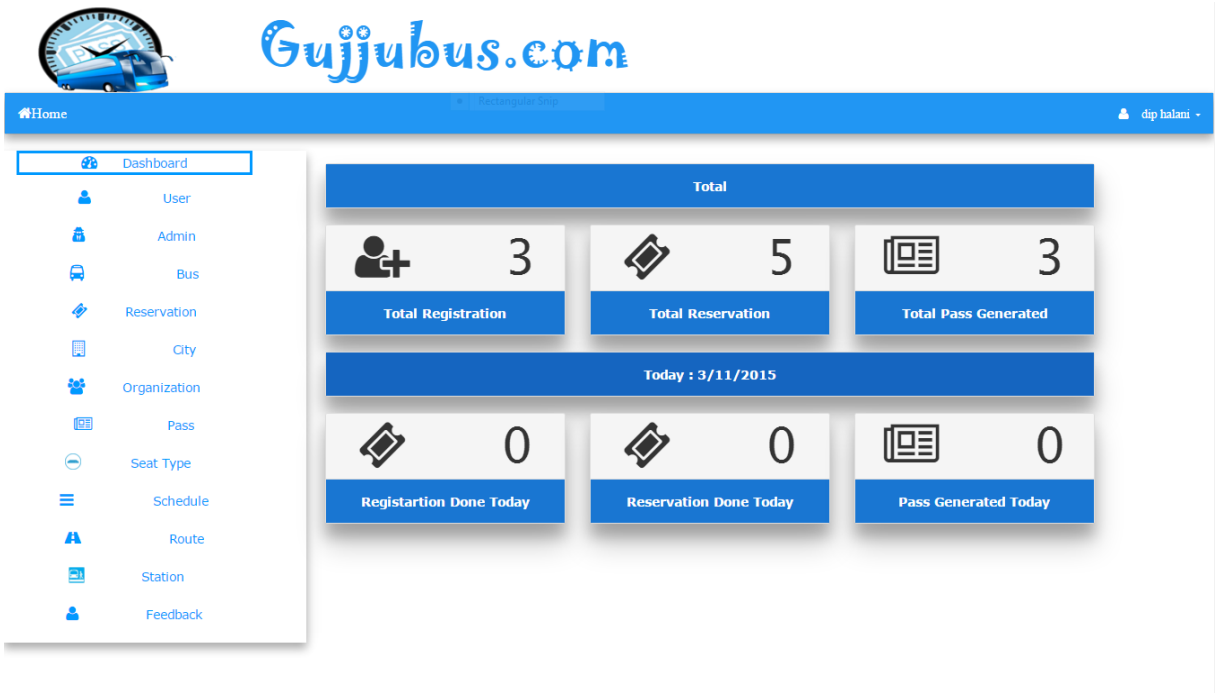
Renew Pass Form:



Print Pass:

Contact Us

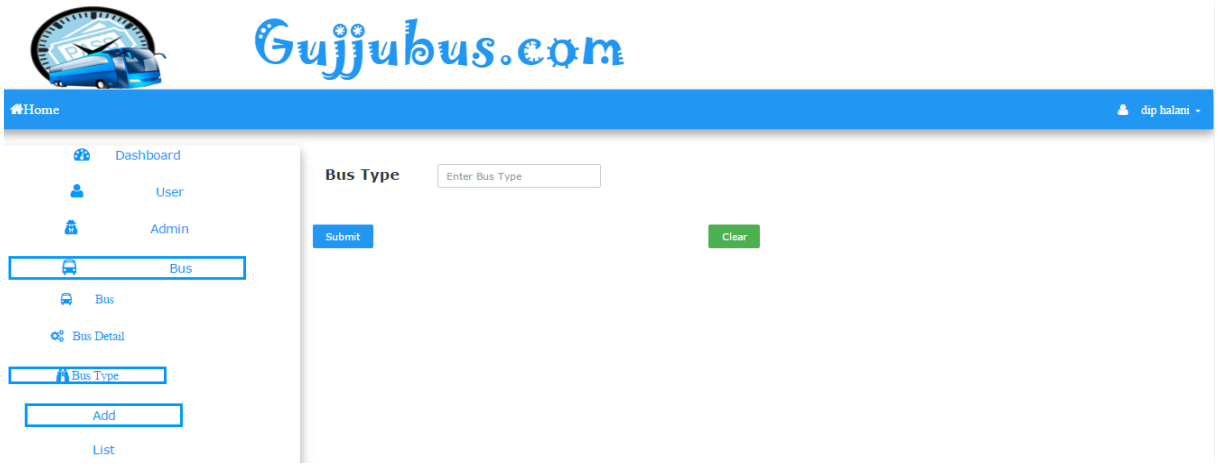
Admin Penal:



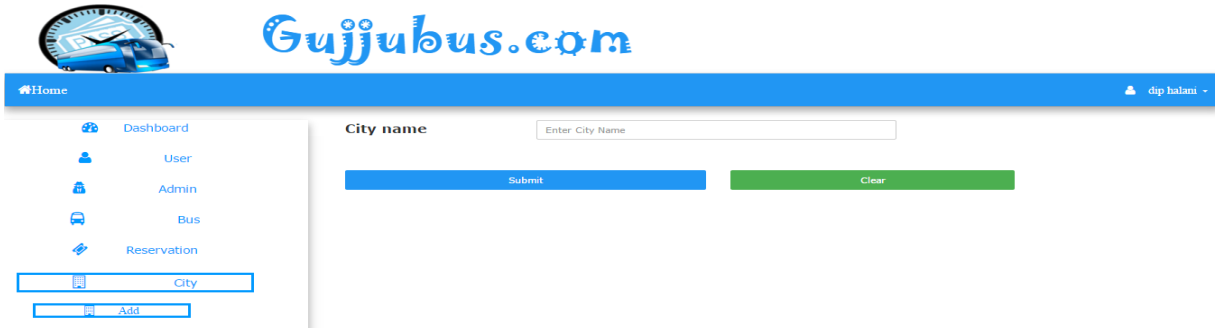
Add Admin:

Add Bus

Add Bus Type



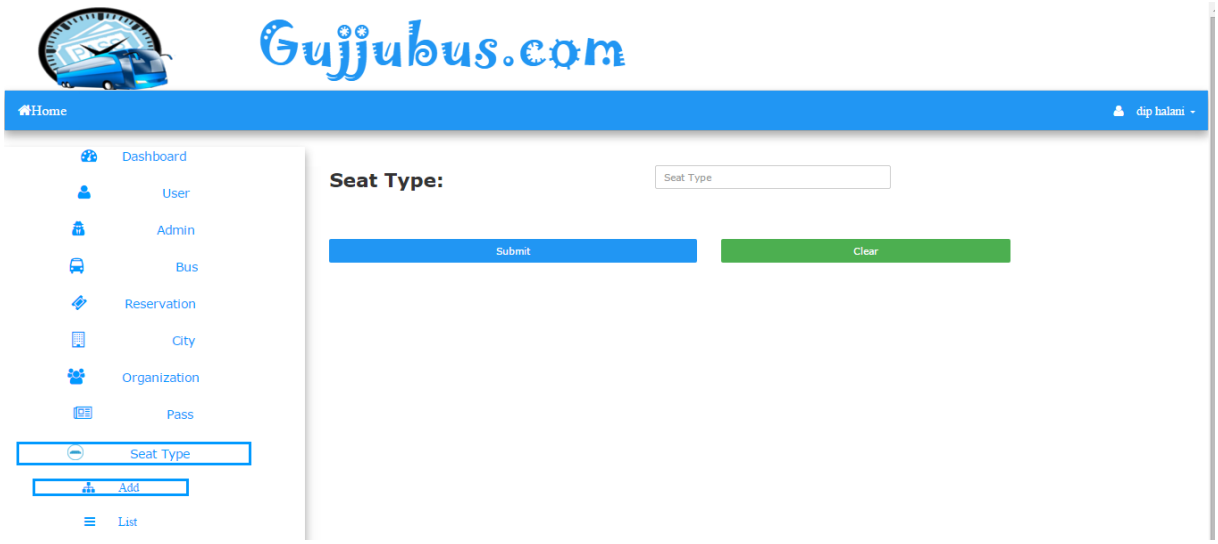
Add City



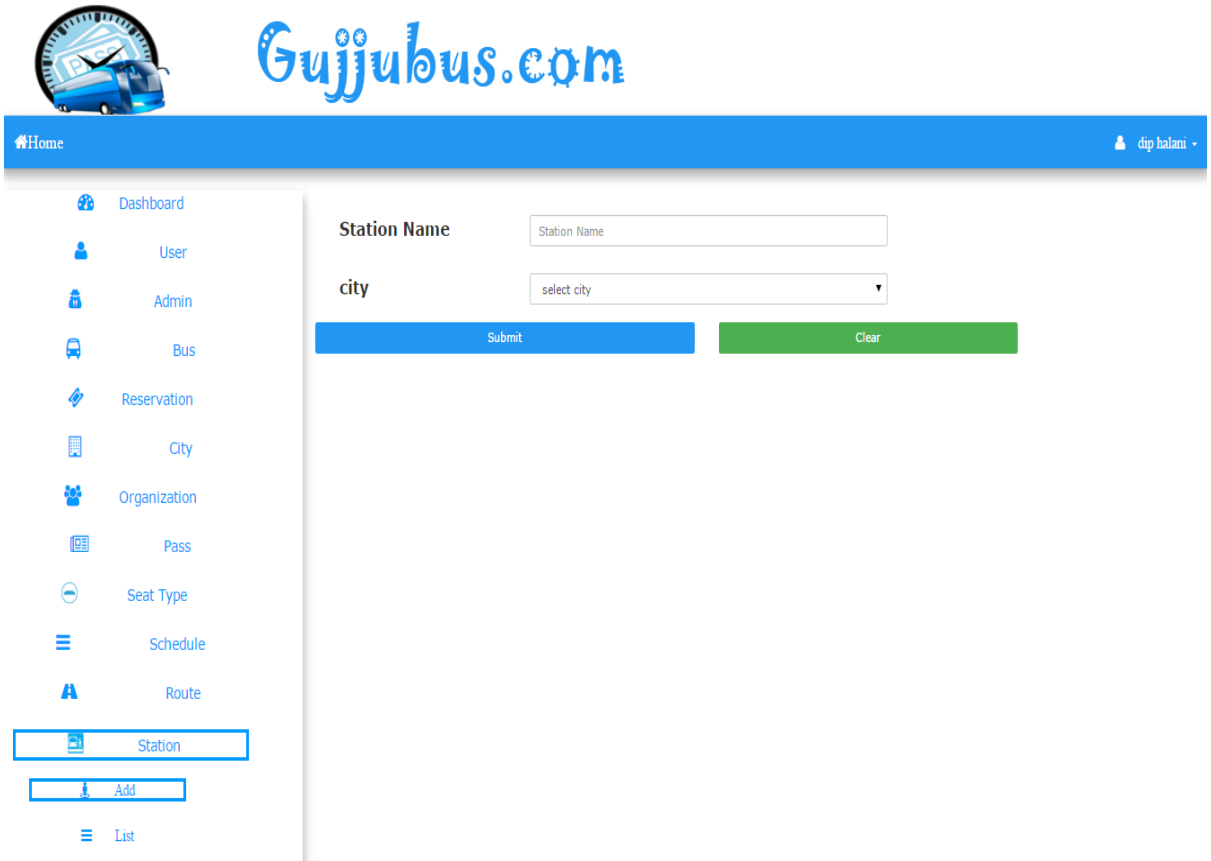
Add Route

Add Schedule

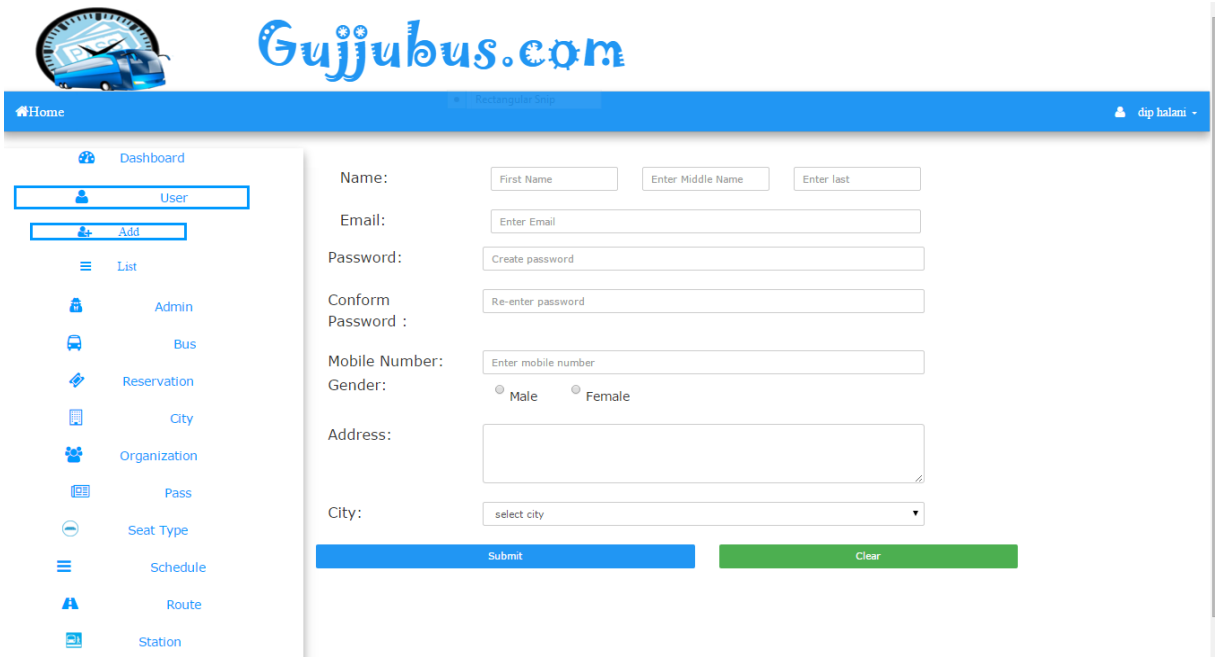
Add Seat Type



Add Station



Add User



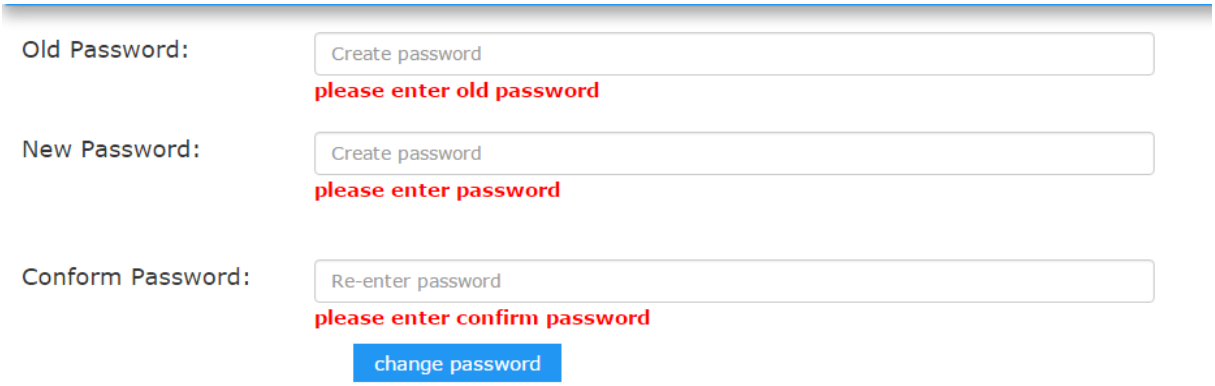
List Admin

Testing

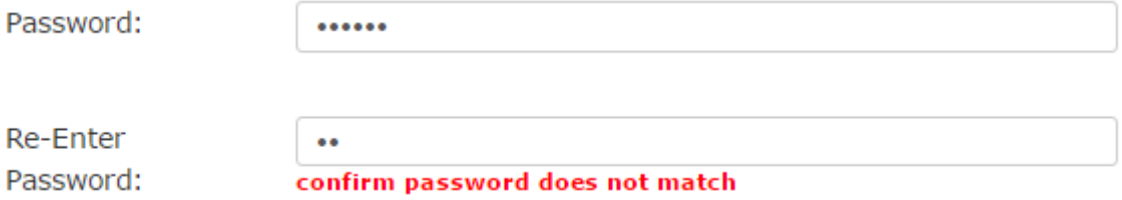
6. Testing

Index Validation

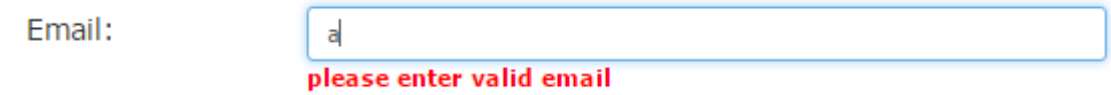
Validation in Change Password:



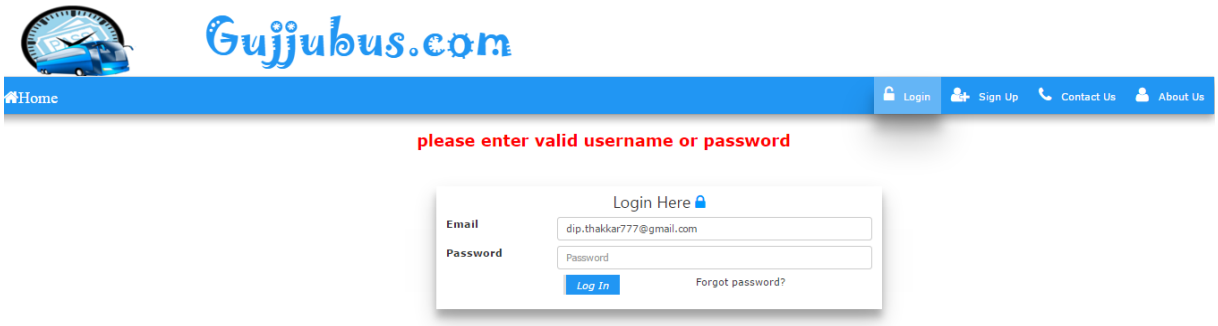
Validation in Change Password:



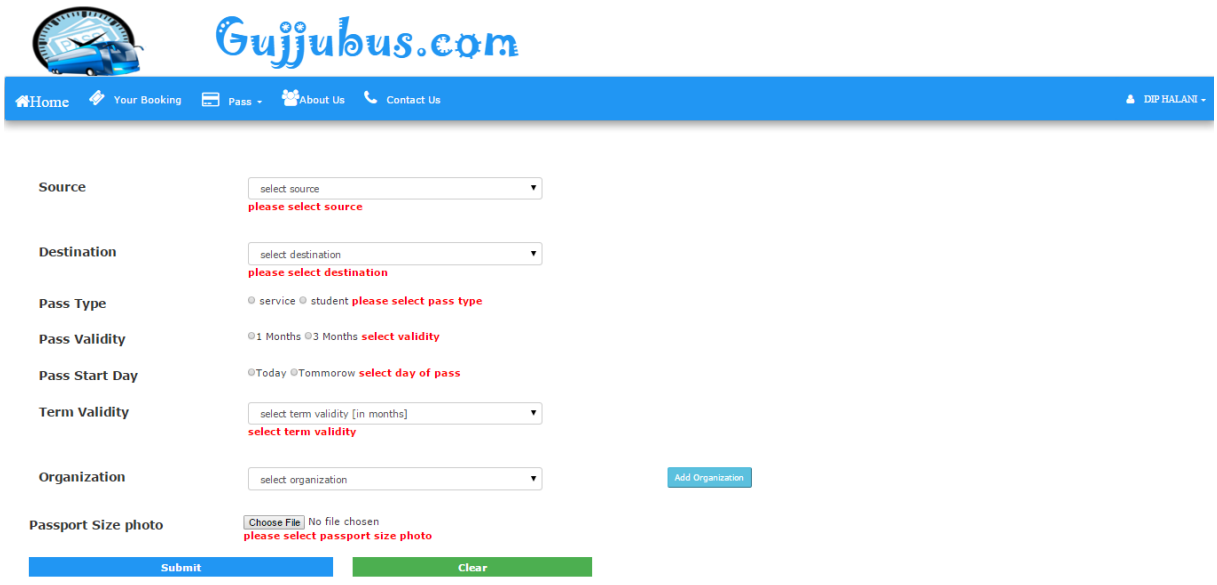
Validation in Email:



Login Validation

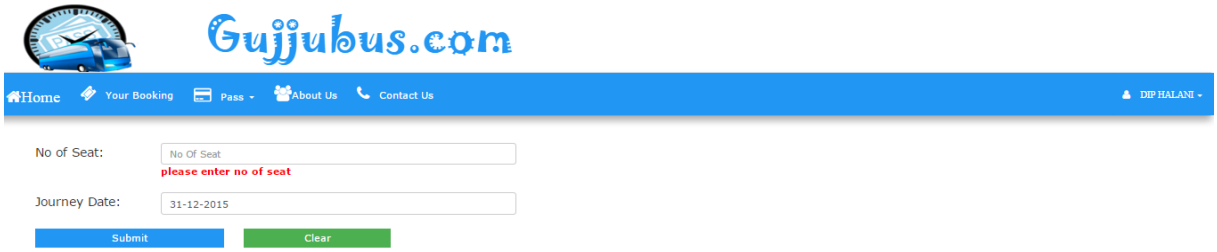


Pass Validation

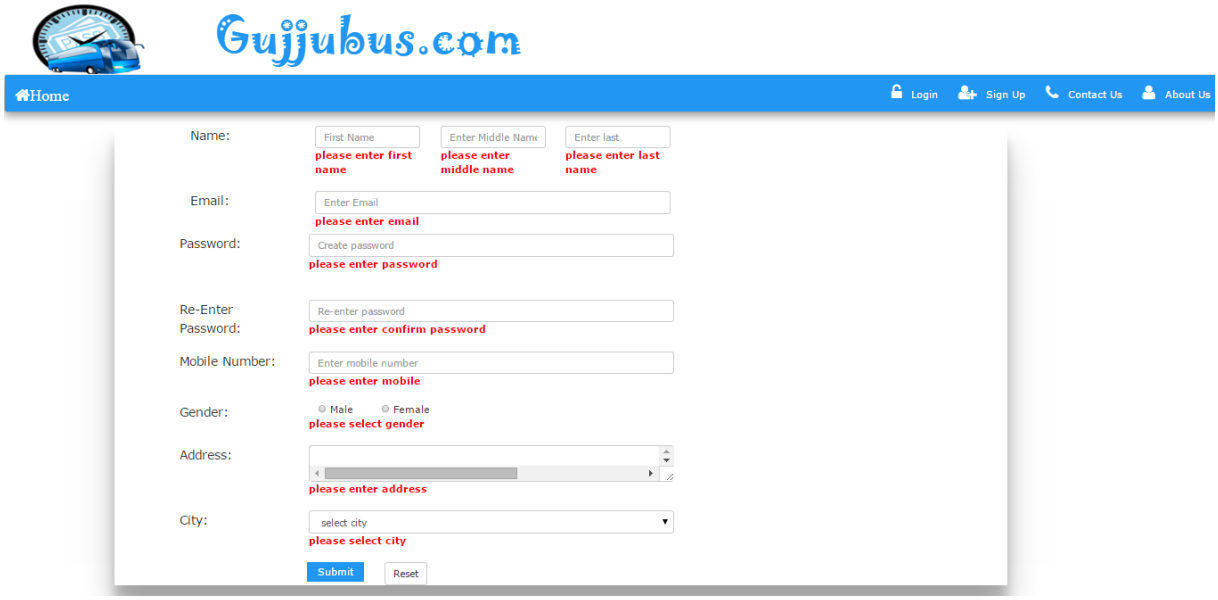


Validation in Pass Form:

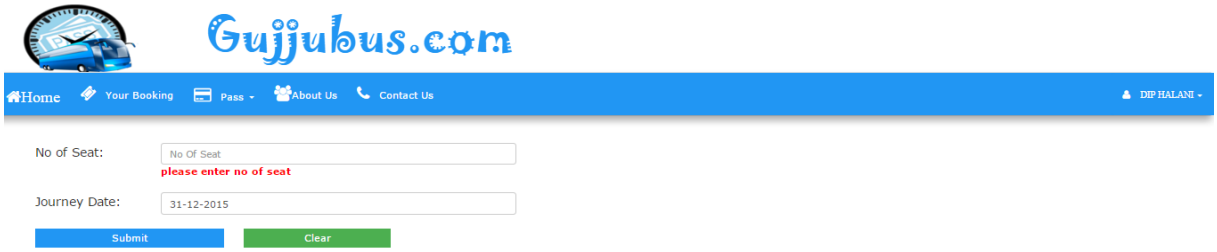
Validation Reservation



Signup Form Validation



Reservation Validation



7.Future Scope

- ✓ Our Current system does not provide waiting facility
- ✓ We will Provide Online payment
- ✓ We will Make Admin panel for Handling all System functionality

8. Bibliography

Reference sites:

- www.jquery.com
- www.w3schools.com
- www.stackoverflow.com

9.Conclusion

Any Work may not always be perfect:

There may be some defects or errors. We have taken enough care to make the project user friendly and more interactive. Major focus is to Generate paper dynamically without leaking of paper.

Any suggestion to make this project more useful is Always most welcome.

Thank you…