

Bus Reservation and Pass



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Bus Reservation and Pass

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

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NAME OF COMPANY

Digimation

REPORT SUBMITTED TO



K.S.SchoolOf Business Management And Research

Date of Submission: 3rdDecember, 2015.

Project Coordinator

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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 through 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. Dharmesh Sangara* 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**

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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

3.3 Technology Used

3.3.1 Frontend 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

3.3.5 Testing Tools:

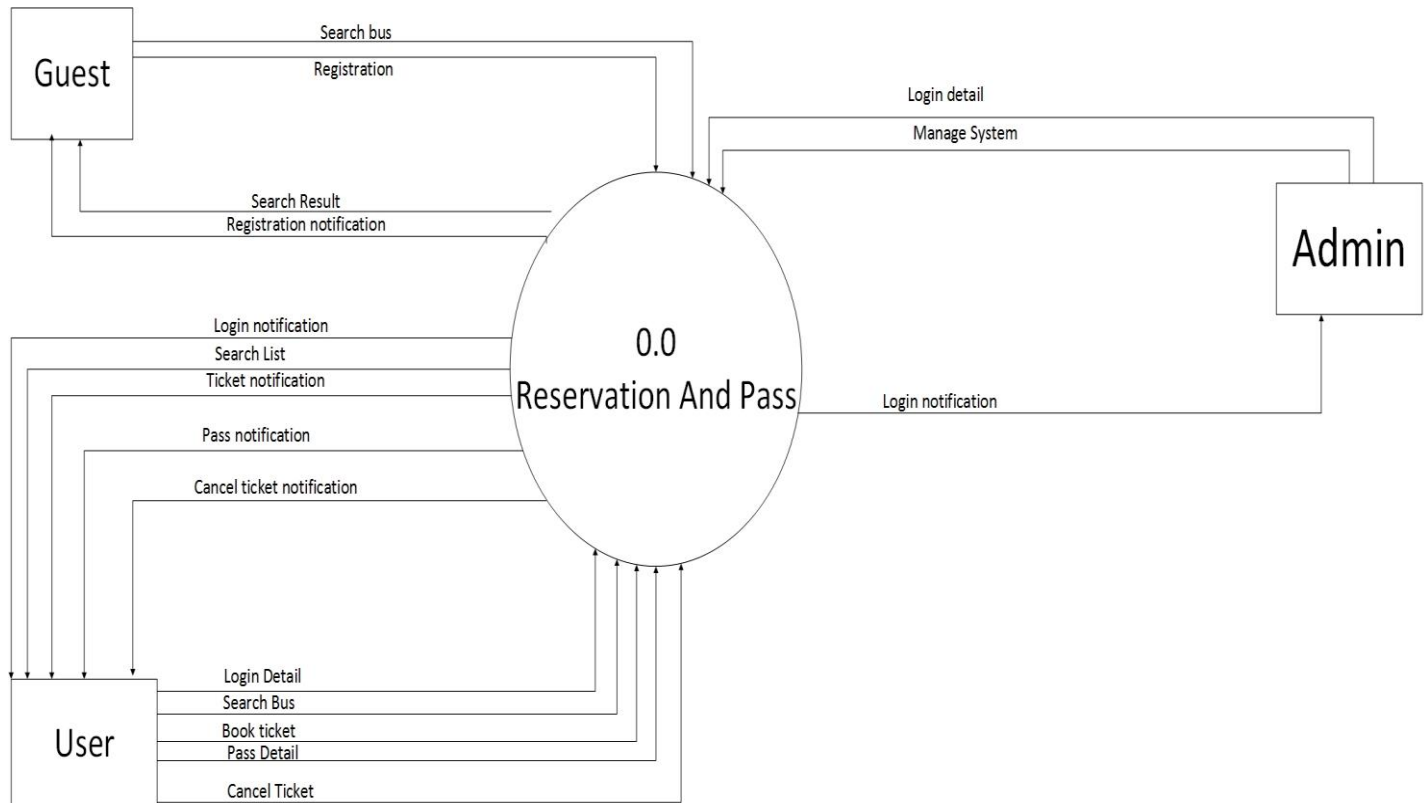
- Firebug

System Design

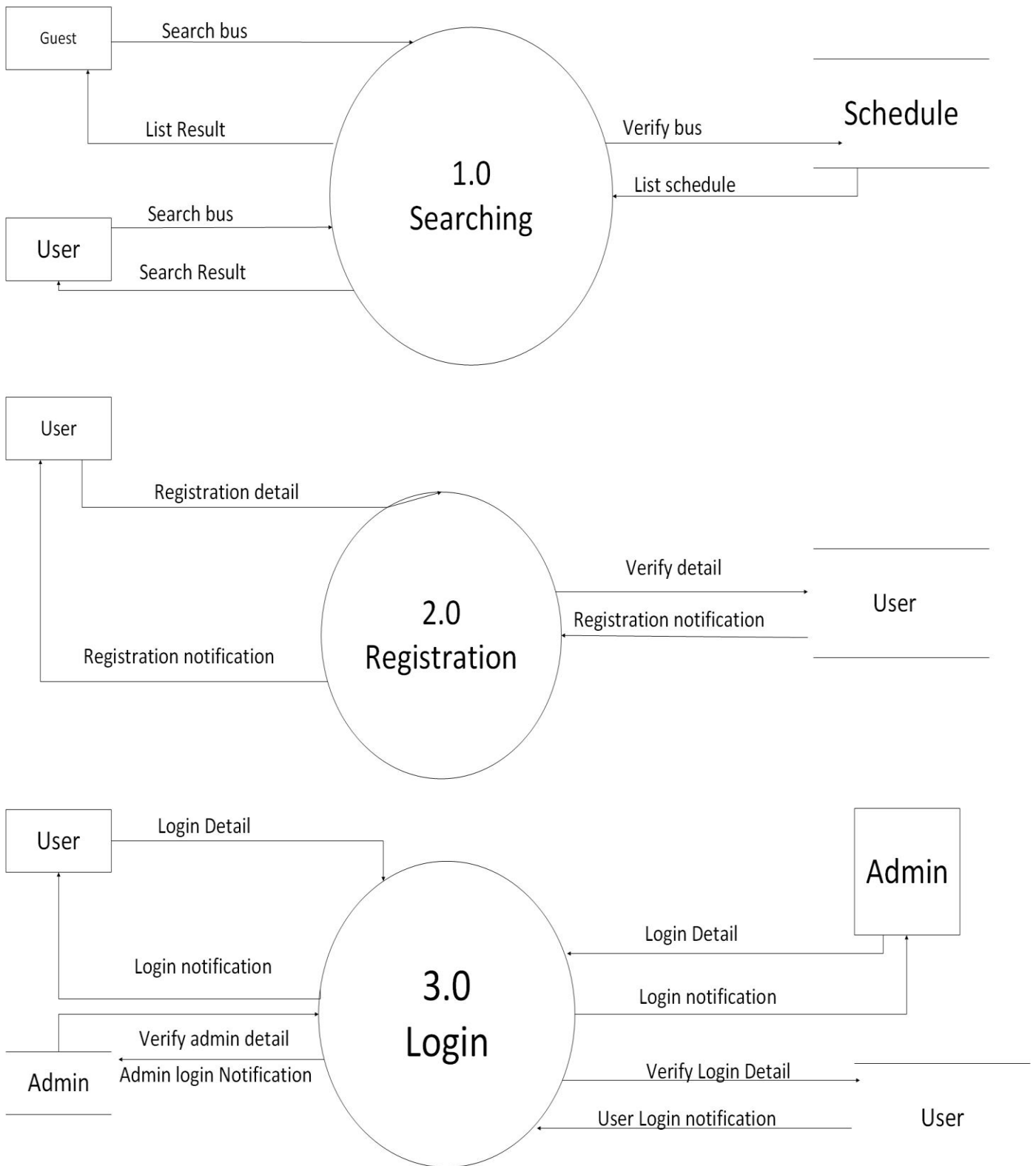
4. System Design

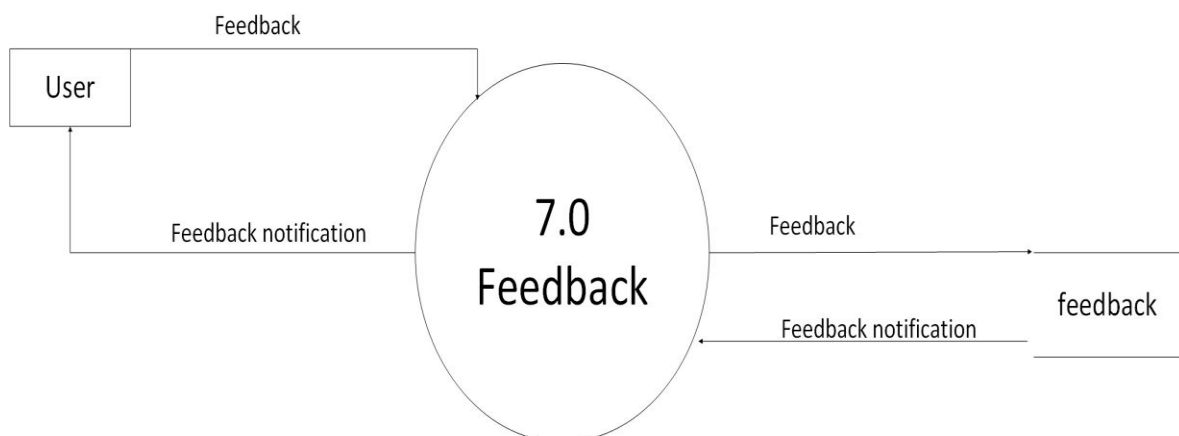
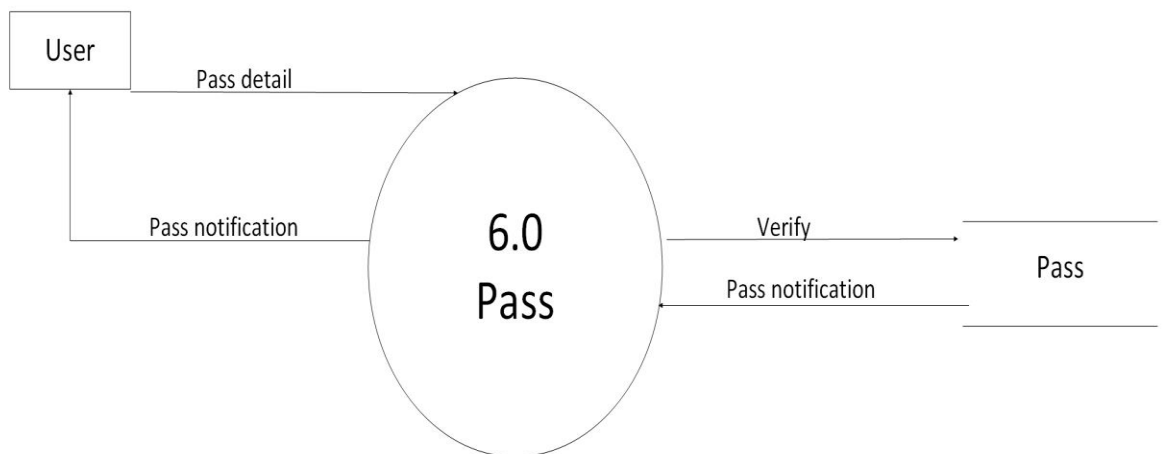
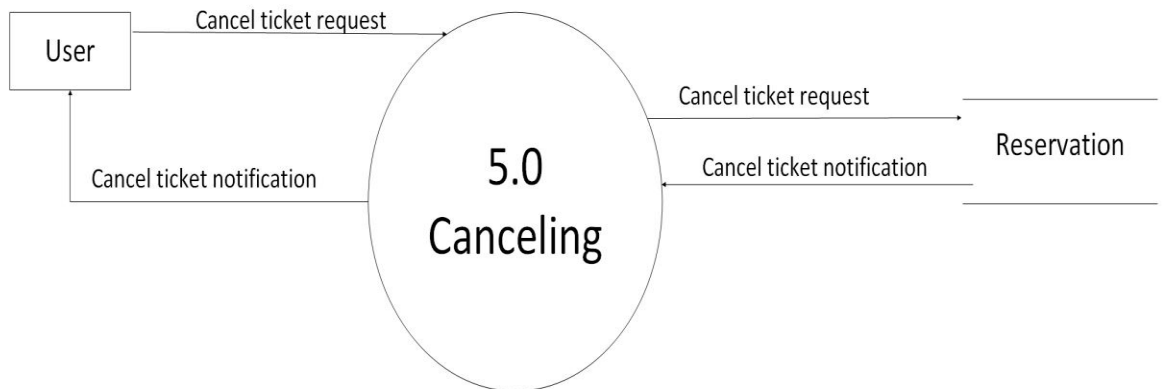
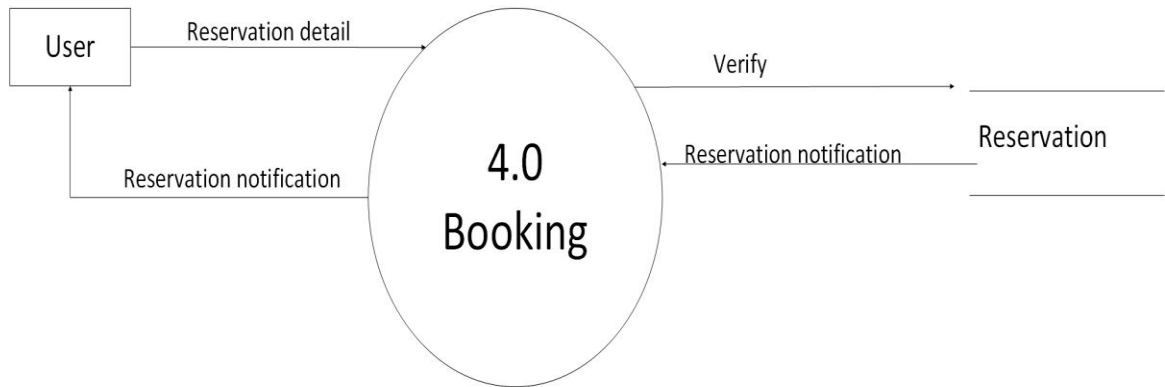
4.0 Data Flow Diagram

Context Level

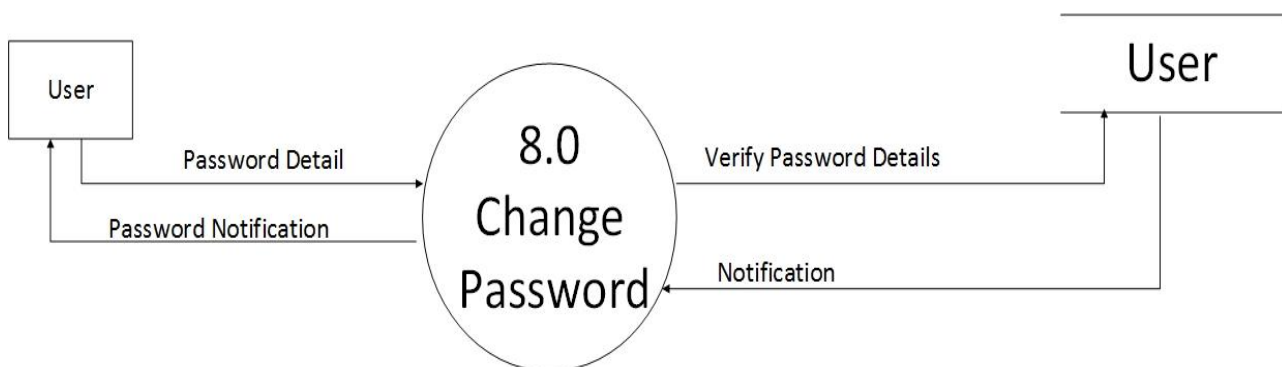
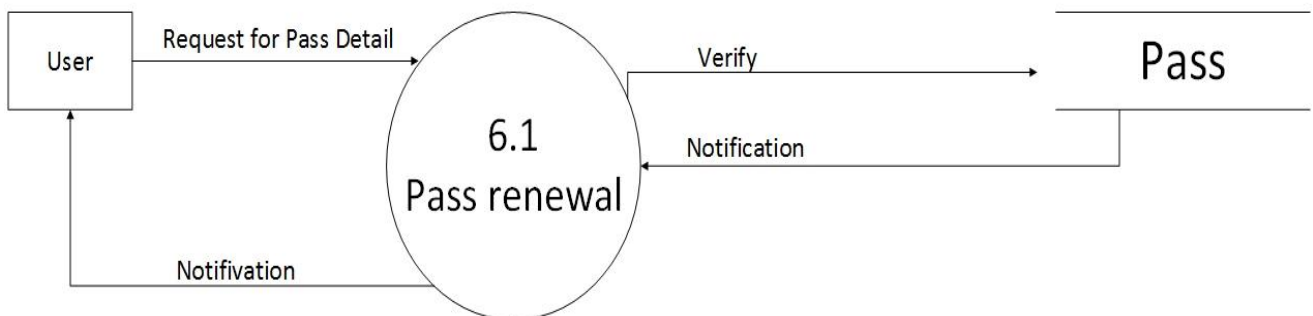
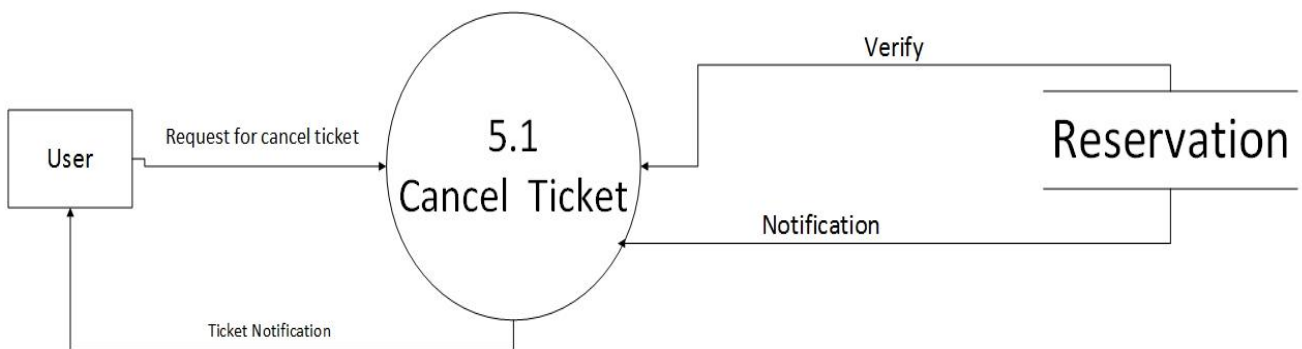
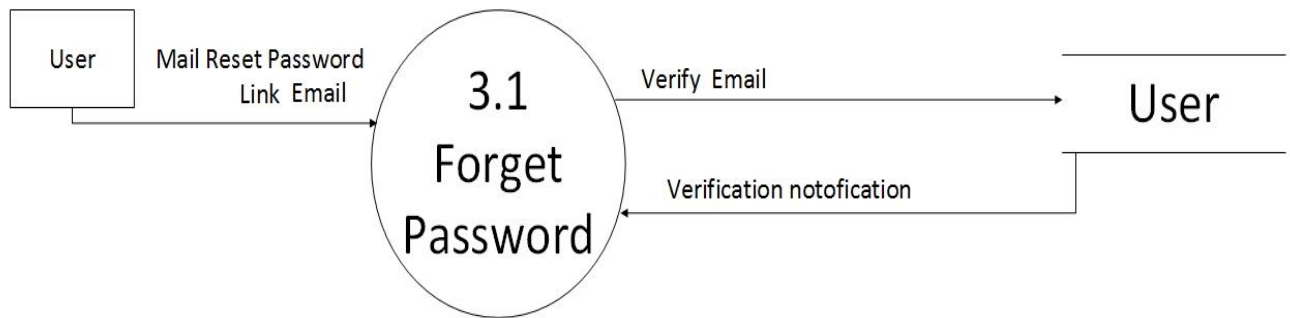


First Level DFD

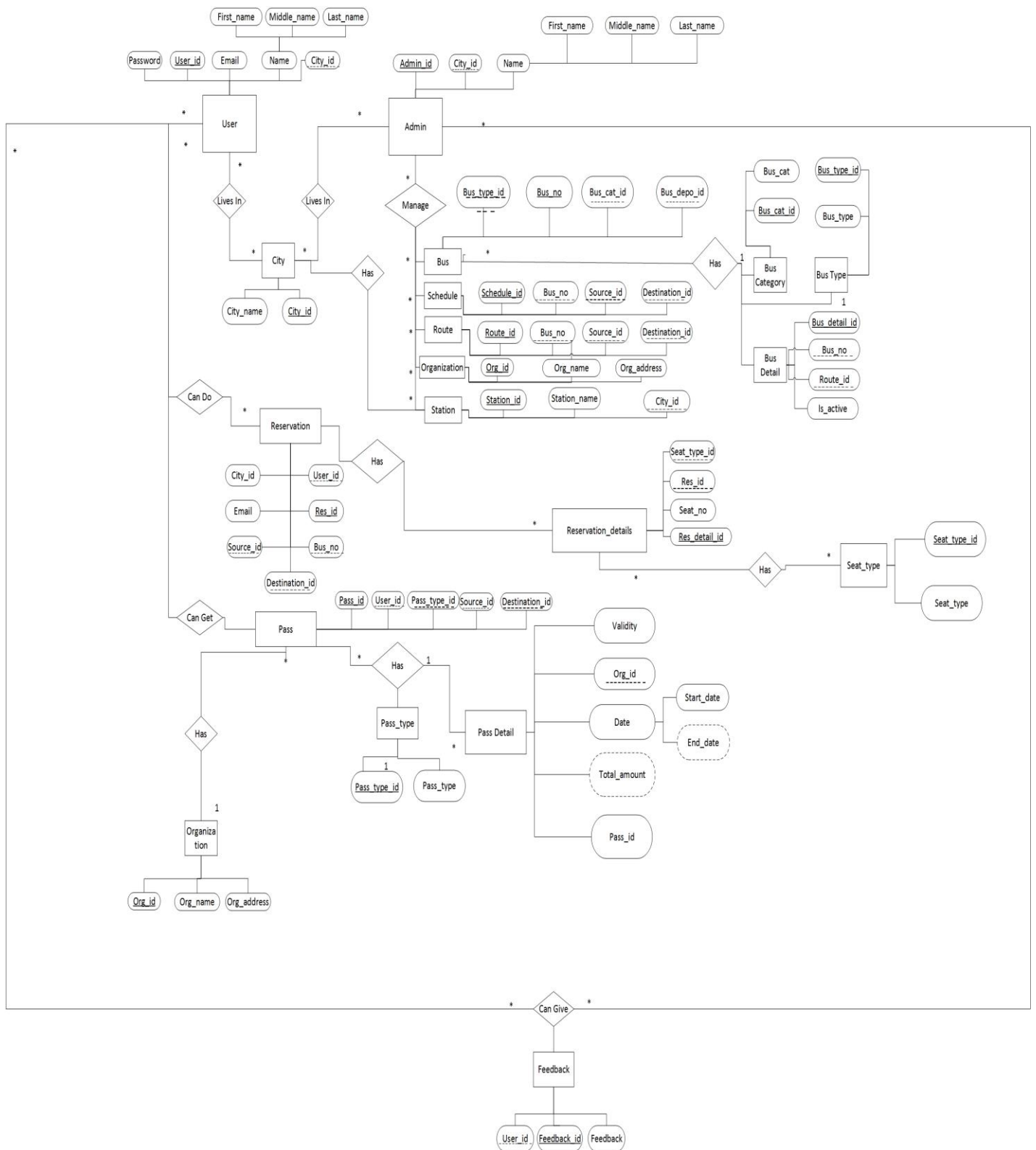




SecondLevel DFD

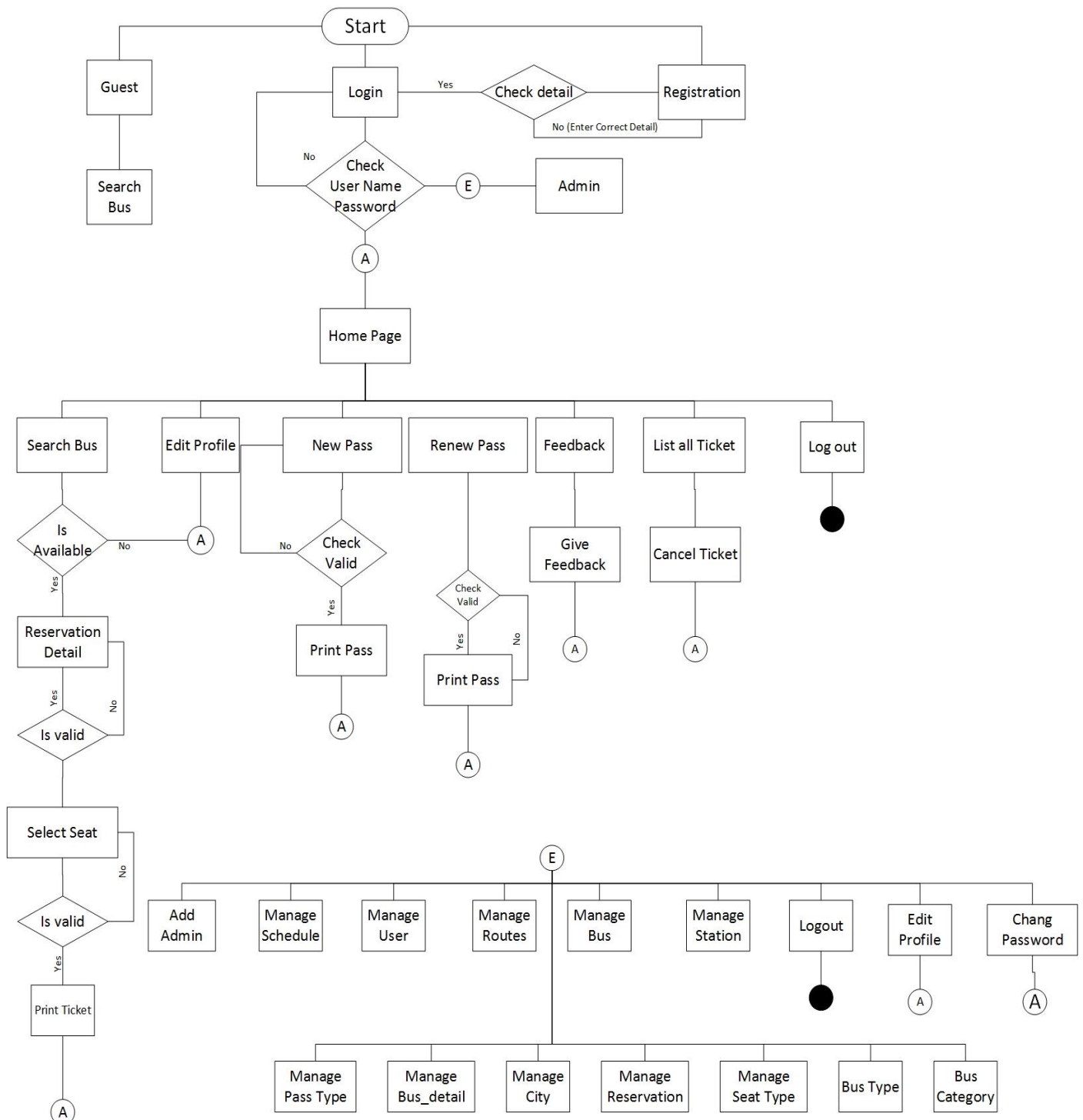


1.3 Entity Relationship Diagram



3.0 System Flow Diagram

System Flow Diagram



DATA DICTIONARY

Table No 1

Table Name: User

Field Name	Data Type	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]
Destination_id	Int	5	Foreign key	From Station Table[Station_id]
Is_availible	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
Journey_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_category_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_increment	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	Constraints	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_category	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:



Gujjubus.com

[Home](#) [Login](#) [Sign Up](#) [Contact Us](#) [About Us](#)

From :

To :

[Search](#)

Special Services

- Book Online Ticket
- Get Pass
- Show Schedule.
- Concession on Student Pass



0000000000

Gujjubus.com

[Contact us](#) [About us](#)

User Signup Form:



Gujjubus.com

[Home](#) [Login](#) [Sign Up](#) [Contact Us](#) [About Us](#)

Name:

Email:

Password:

Re-Enter Password:

Mobile Number:

Gender:


☐ Male ☐ Female

Address:

City:

Submit

Reset



Gujjubus.com

[Home](#) [Your Booking](#) [Pass](#) [About Us](#) [Contact Us](#) [DIP HALANT](#)

Search Bus Here

From :

To :

Search Bus

Login Failed Page:



Gujjubus.com

[Home](#) [Login](#) [Sign Up](#) [Contact Us](#) [About Us](#)

Login Here

Email
please enter username


Password
please enter password

[Log In](#) [Forgot password?](#)

Gujjubus.com

[Contact us](#) [About us](#)

Home Page of User:



Gujjubus.com

[Home](#) [Your Booking](#) [Pass](#) [About Us](#) [Contact Us](#) [DIP HALANI](#)


Search Bus Here

From :

To :

[Search Bus](#)

User can Search Schedule and Book Ticket





Gujjubus.com

[Home](#) [Your Booking](#) [Pass](#) [About Us](#) [Contact Us](#) [DIP HALANI](#)

BUS NO	SOURCE	DESTINATION	DISTANCE	ARRIVAL TIME	DEPARTURE TIME	TIME TAKEN	OFF DAY	ACTION
GJ18ER3225	paladi	pathika	20	23:59:00	12:59:00	120	Sunday	Book Ticket

Select Number of Seat and date:



[Home](#) [Your Booking](#) [Pass](#) [About Us](#) [Contact Us](#) DIP HALANI



No of Seat:

Journey Date:

Submit

Clear

Use Can Chose Particular Seat/s:



[Home](#) [Your Booking](#) [Pass](#) [About Us](#) [Contact Us](#) DIP HALANI

Select Seat:

1	6	11	16	21	26	31	36	41	46	51
2	7	12	17	22	27	32	37	42	47	52
3	8	13	18	23	28	33	38	43	48	53
4	9	14	19	24	29	34	39	44	49	54
5	10	15	20	25	30	35	40	45	50	55

Booked Seat

Available Seat

Selected Seat

Submit


User also cancel Ticket:



[Home](#) [Your Booking](#) [Pass](#) [About Us](#) [Contact Us](#) DIP HALANI

First Name	Middle Name	Last Name	Source	Destination	No Of Seat	Journey Date	Action
dip	n	halani	pathika	paladi	2	2015/12/31	Cancel
dip	n	halani	pathika	paladi	2	2015/12/31	Cancel
dip	n	halani	pathika	paladi	1	2015/12/01	Cancel
dip	n	halani	pathika	paladi	2	2015/12/31	Cancel
dip	n	halani	pathika	paladi	2	2015/12/31	Cancel

New Pass Form:



[Home](#) [Your Booking](#) [Pass](#) [About Us](#) [Contact Us](#) [SAURABH RATHOD](#)

Source

select source

Destination

select destination

Pass Type

☐ service ☐ student

Pass Validity

☐ 1 Months ☐ 3 Months

Pass Start Day

☐ Today ☐ Tommorrow

Term Validity

select term validity [in months]

Organization

select organization

Add Organization

Passport Size photo

Choose File

 No file chosen

Submit

Clear

Confirmation of Pass:



[Home](#) [Your Booking](#) [Pass](#) [About Us](#) [Contact Us](#) [DIP HALANI](#)

Confirm

Photo :



First Name : dip

Middle Name : n

Last Name : halani

Email : dip.thakkar777@gmail.com

Source : paladi

Destination : pathika

Start Date : Thu Dec 03 2015

Pass Validity : 3 months

Term Validity : 6 months

Amount : 600

Organization : ks

Edit Profile Page:



[Home](#) [Your Booking](#) [Pass](#) [About Us](#) [Contact Us](#) ▲ DIP HALANI ▼

Name:

Email:

Password:

Mobile Number:



Gender: ☐ Male ☒ Female

Is Active: ☒ Yes ☐ No

Address:

City:

Change Password:





[Home](#) [Your Booking](#) [Pass](#) [About Us](#) [Contact Us](#) ▲ SAURABH RATHOD ▼

Old Password:

New Password:

Conform Password:

Renew Pass Form:



[Home](#) [Your Booking](#) [Pass](#) [About Us](#) [Contact Us](#) ▲ SAURABH RATHOD ▼

Pass Validity ☐ 1 Months ☒ 3 Months

Pass Start Day ☐ Today ☒ Tommorrow

Print Pass:



GujjuBus



SAURABH K RATHOD

Start Date: Thu Dec 03 2015

Pass Validity: 3 months

Term Validity: 6

Route: kalupur - paladi

Organization: ks

Amount: 600

Email : saurabhrathod35@gmail.com

Organization Address : ks

[Print Pass](#)

Contact Us



Gujjubus.com

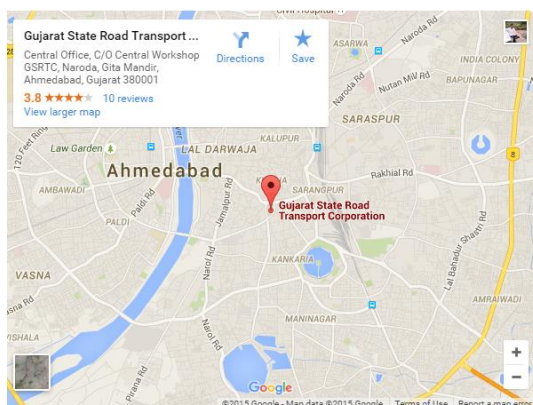
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Contact Us

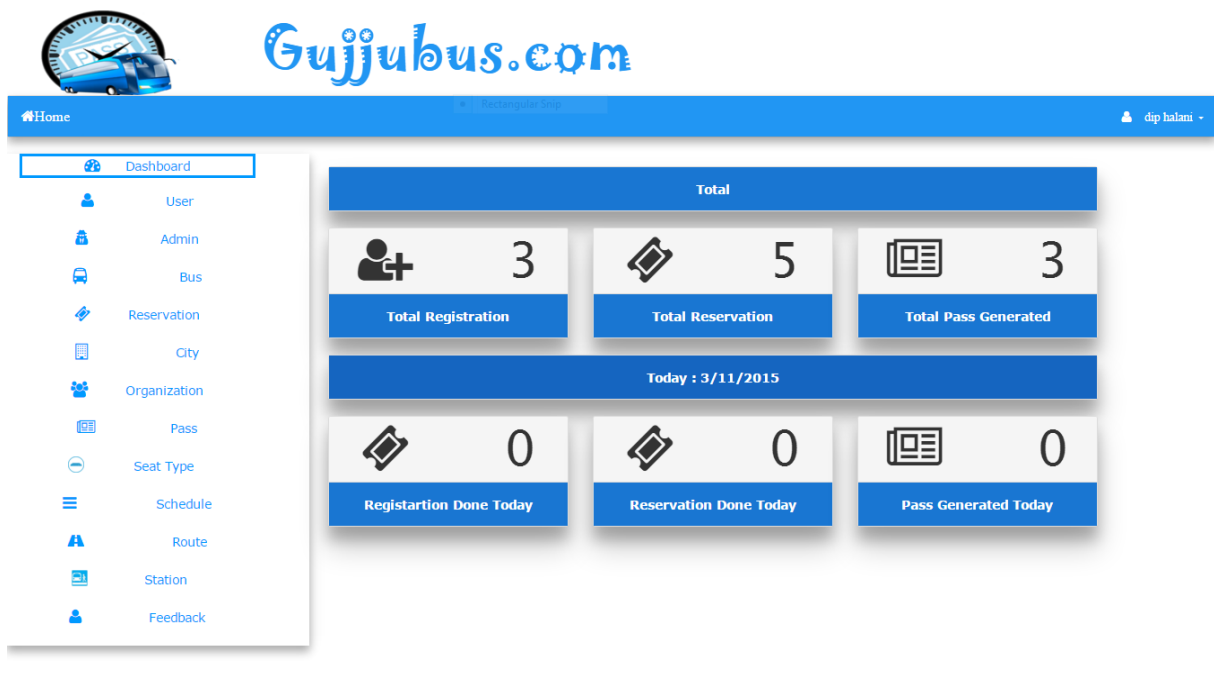
Address

Central Office, C/O Central Workshop GSRTC, Naroda, Gita Mandir,
&em Ahmedabad, Gujarat 380001

+91 9033037081

feedback@gujjuBus.com [click here](#)

Admin Penal:



The screenshot shows the Admin Dashboard of Gujjubus.com. The top navigation bar includes a Home link and a user profile for 'dip halani'. The left sidebar contains a menu with options: Dashboard, User, Admin, Bus, Reservation, City, Organization, Pass, Seat Type, Schedule, Route, Station, and Feedback. The main content area displays two rows of statistics. The first row, labeled 'Total', shows 3 Total Registrations, 5 Total Reservations, and 3 Total Passes Generated. The second row, labeled 'Today : 3/11/2015', shows 0 Registrations Done Today, 0 Reservations Done Today, and 0 Passes Generated Today.

Total		
3	5	3
Total Registration	Total Reservation	Total Pass Generated

Today : 3/11/2015		
0	0	0
Registration Done Today	Reservation Done Today	Pass Generated Today

Add Admin:



The screenshot shows the 'Add Admin' form in the Gujjubus.com Admin Dashboard. The left sidebar is identical to the previous screenshot, but the 'Admin' menu item is highlighted, and the 'Add' sub-option is selected. The form fields include: Name (First Name, Middle Name, Last Name), Email (example@gujjubus.com), Password (Create Password), Confirm Password (Re-Enter Password), Gender (Male, Female), and City (Select City). The form has a blue 'Submit' button and a green 'Clear' button.

Name : First Name Middle Name Last Name

Email : example@gujjubus.com

Password : Create Password

Conform Password : Re-Enter Password

Gender: ☐ Male ☐ Female

City : Select City

Add Bus



Gujjubus.com

Home dip halani

Dashboard

User

Admin

Bus

Bus

Add

List Bus

Bus Detail

Bus Type

Bus Category

Reservation

City

Organization

Pass

Bus Number

BUS NUMBER

Bus Type

☐ local ☐ express

Bus Category

☐ normal ☐ ac

Capacity

Capacity of Bus

Bus Depo

select city

Submit

Clear

Add Bus Type



Gujjubus.com

Home dip halani

Dashboard

User

Admin

Bus

Bus

Bus Detail

Bus Type

Add

List


Bus Type

Enter Bus Type

Submit

Clear

Add City



Gujjubus.com

Home dip halani

Dashboard

User

Admin

Bus

Reservation

City

Add

City name

Enter City Name

Submit

Clear

Add Route



Gujjubus.com

Home dip halani

Dashboard

User

Admin

Bus

Reservation

City

Organization

Pass

Seat Type

Schedule

Route

Add

Source :

select source

Destination

select destination

Submit

Reset

Add Schedule



Gujjubus.com

Home dip halani

Dashboard

User

Admin

Bus

Reservation

City

Organization

Pass

Seat Type

Schedule

Add

List

Route

Route

select route

Bus No

select bus no

Source

Destination

Distance

Week Of Day

Select

Week Of Date

dd-mm-yyyy

Departure Time

--:-- --

Arrival Time

--:-- --


Reach Time

--:-- --

Submit

Clear

Add Seat Type



Gujjubus.com

Home dip halani

Dashboard

User

Admin

Bus

Reservation

City

Organization

Pass

Seat Type

Add

List


Seat Type:

Seat Type

Submit

Clear

Add Station



Gujjubus.com

Home dip halani

Dashboard

User

Admin

Bus

Reservation

City

Organization

Pass

Seat Type

Schedule

Route

Station

Add

List

Station Name

Station Name


city

select city

Submit

Clear

Add User



Gujjubus.com

Home

dip halani

Dashboard

User

Add

List

Admin

Bus

Reservation

City

Organization

Pass

Seat Type

Schedule

Route

Station

Name:

First Name

Enter Middle Name

Enter last

Email:

Enter Email

Password:

Create password

Conform Password :

Re-enter password

Mobile Number:

Enter mobile number

Gender:

Male

Female

Address:

City:

select city

Submit

Clear

List Admin



Gujjubus.com

Home

SAURABH RATHOD

Dashboard

User

Admin

Add

List

Bus

Reservation

City

Organization

Pass

Seat Type

Schedule

Route

Station

Feedback

Add Admin

2 records found

FIRST NAME	MIDDLE NAME	LAST NAME	GENDER	CITY	EMAIL	IS ACTIVE	ACTION
dip	n	halani	male	ahmedabad	saaurabhathod@gmail.com	y	 
saaurabh	k	rathod	male	gandhinagar	saaurabh116@gmail.com	y	 

Testing

6. Testing

Index Validation



The image shows the homepage of Gujjubus.com. At the top, there is a navigation bar with links for Home, Login, Sign Up, Contact Us, and About Us. Below the navigation bar, there is a large banner image of a white bus with a tiger logo. To the left of the banner, there is a search form with fields for 'From' (Source) and 'To' (Destination), a search button, and a list of special services: Book Online Ticket, Get Pass, Show Schedule, and Concession on Student Pass. At the bottom, there is a footer with the Gujjubus.com logo and links for Contact us and About us.

Validation in Change Password:

Old Password:
please enter old password

New Password:
please enter password

Conform Password:
please enter confirm password

Validation in Change Password:

Password:

Re-Enter Password:
confirm password does not match

Validation in Email:

Email:

a

please enter valid email

Login Validation



Gujjubus.com

Home

Login

Sign Up

Contact Us

About Us

please enter valid username or password

Login Here

Email

dip.thakkar777@gmail.com

Password

Password

Log In

Forgot password?

Pass Validation



Gujjubus.com

Home

Your Booking

Pass

About Us

Contact Us

DIP HALANI

Source

select source

please select source

Destination

select destination

please select destination

Pass Type

☐ service ☐ student please select pass type

Pass Validity

☐ 1 Months ☐ 3 Months select validity

Pass Start Day

☐ Today ☐ Tomorrow select day of pass

Term Validity

select term validity [in months]

select term validity

Organization

select organization

Add Organization

Passport Size photo

Choose File No file chosen

please select passport size photo

Submit

Clear

Validation in Pass Form:

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Home Your Booking Pass About Us Contact Us DIP HALANI

Source

select source

please select source

Destination

select destination

please select destination

Pass Type

☐ service ☐ student

please select pass type

Pass Validity

☐ 1 Months ☐ 3 Months

select validity

Pass Start Day

☐ Today ☐ Tomorrow

select day of pass

Term Validity

select term validity [in months]

select term validity

Organization

select organization

Add Organization


Passport Size photo

Choose File No file chosen

please select passport size photo

Submit Clear

Validation Reservation

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No of Seat:

No Of Seat


please enter no of seat

Journey Date:

31-12-2015

Submit Clear

Signup Form Validation

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Home Login Sign Up Contact Us About Us

Name:

First Name

please enter first name

Enter Middle Name

please enter middle name

Enter last

please enter last name

Email:

Enter Email

please enter email

Password:

Create password

please enter password

Re-Enter Password:

Re-enter password

please enter confirm password

Mobile Number:

Enter mobile number

please enter mobile

Gender:

☐ Male ☐ Female

please select gender

Address:

please enter address

City:

select city

please select city

Submit Reset

Reservation Validation



Gujjubus.com

No of Seat:
please enter no of seat

Journey Date:

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

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...