

# Implementation-Version 1

The implementation is done in Java and the database has been created in PostgreSQL and has been linked to java programme using the JDBC driver. The functionalities that the system provides are:

## 1. Login/Signup

On signing up, the entry of the user is added into the database. It can be seen below. Also, it is always checked whether the format of the email ID is correct or not.

Edit Data - Pgsq (10.100.71.21:5432) - 201501230 - sen.potentialusers

	fname character var	lname character var	email character var	password character var	age integer	pid [PK] integer
1	Disha	Kash	shi@gmail.c	shikash	20	1
2	Sooraj	Lukh	mailtodrash	draluk	20	2
3	Priya	Patel	pripat@gmai	pripat	20	3
4	Akshay	Kapoor	aashkap@gma	aashkap	20	6
*						

After signing up of the user as given below, the user signs up and then logs in:

```
SEN - Java - Project/src/Admin.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help

Run [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (15-Apr-2018, 3:58:07 PM)
Admin or User
User
Login Or SignUp Or Browse or Exit
SignUp
Enter First Name:
Sameer
Enter Last Name:
Malhotra
Enter Email:
sammal@gmail.c
Enter another valid Email:
sammal.gmds.com
Enter another valid Email:
sammal@microsoft.com
Enter Password:
sammal
Enter Age:
20
Login Or SignUp Or Browse or Exit
Login
Enter Valid Email ID
sammal@microsoft.com
Enter password
sammal
Login Successfull
Browse or Exit
```

The database is updated as follows:

Edit Data - Pgsql (10.100.71.21:5432) - 201501230 - sen.potentialusers

File Edit View Tools Help

No limit

	fname character vai	lname character vai	email character vai	password character vai	age integer	pid [PK] integer
1	Disha	Kash	shi@gmail.c	shikash	20	1
2	Sooraj	Lukh	mailtodrash	draluk	20	2
3	Priya	Patel	pripat@gmai	pripat	20	3
4	Akshay	Kapoor	aashkap@gma	aashkap	20	6
5	Sameer	Malhotra	sammal@micr	sammal	20	7
*						

The implementation of successful login:

SEN - Java - Project/src/PotentialUser.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Problems @ Javadoc Declaration Console

Run [Java Application] C:\Program Files\Java\jre1.8.0\_144\bin\javaw.exe (15-Apr-2018, 4:44:52 PM)

```
Admin or User
User
Login Or SignUp Or Browse or Exit
Login
Enter Valid Email ID
shikash@gmail.com
Enter password
shikas
Please SignUp, no such user exists
Login Or SignUp Or Browse or Exit
Login
Enter Valid Email ID
shi@gmail.com
Enter password
shikash
Login Successfull
Browse or Exit
```

## 2. Functionalities for Potential User

The potential Users are those who have signed up, thus they are shown totally different facilities, they are able to look at the browsing options and writing a review and navigation options. Also, the users are able to add a place for review if it doesn't exist, also the reviews are updated to the database. The other feature they get is that they can store their browsed history (in the database).

The **browsed history** before that looks as below:

Edit Data - Pgsql (10.100.71.21:5432) - 201501230 - sen.browsedhistory

File Edit View Tools Help

No limit

	pid [PK] integer	history [PK] character varying(400)	browsedate [PK] date
1	2	Hotel no: 7, Hotel: honest	2018-04-15
2	2	Package_no: 2, Package for	2018-04-15
3	3	Package_no: 1, Package for	2018-04-15
*			

After login, the options available are given and also the **process of selecting of the packages** is shown:

```
Enter Valid Email ID
shi@gmail.com
Enter password
shikash
Login Successfull
Browse or Exit
Browse
Choose to
0. exit
1. browsePackage
2. browseTransportMode
3. browsePlaces
4. browseHotels
5. browseHistory
6. Write Review
7. Navigate
1
Select source from below:
Source: Ahmedabad
Source: Mumbai
Select destination from below:
Destination: Andaman
Destination: Kashmir
Destination: Manali
Destination: Ooty
```

The user needs to write one of the sources and destination from the given options, as seen below the user writes Ahmedabad and Andaman.

```

Select source from below:
Source: Ahmedabad
Source: Mumbai
Select destination from below:
Destination: Andaman
Destination: Kashmir
Destination: Manali
Destination: Ooty

Which Source
Ahmedabad

Which Destination
Andaman
Fill start date:
1. yes
2. No
2
Choose: 1. Options
2. Reset Filter
3. Exit
1
Package_no: 3, Package for: Andaman, from: Ahmedabad
Rate: 26999.0, Duration: 6, Category: Group, link: https://www.thomascook.in/holidays/india-tour-packages/andaman-tour-packages

```

The user presses 1 to see the options available. The options available are:

```

1
Package_no: 3, Package for: Andaman, from: Ahmedabad
Rate: 26999.0, Duration: 6, Category: Group, link: https://www.thomascook.in/holidays/india-tour-packages/andaman-tour-packages
Select a package number or press 0 to exit
0
Choose: 1. Options
2. Reset Filter
3. Exit
2
Fill Source again:
1. yes
2. No
2
Fill Destination again:
1. yes
2. No
2
Fill duration:
1. yes
2. No
2
Fill budget per person:
1. yes
2. No
1
Enter Budget
25000
Fill category of tour:
1. yes
2. No
2
Choose: 1. Options
2. Reset Filter
3. Exit
1
No such packages available, see all the possible packages

```

In the above it can be seen that if the user does not like the deals, he/she opts to **fill the filter options** available. The user enters the budget, but no such options are available.

So the user is shown all the options possible for the source, destination and the budget he typed that is all permutations of the options are shown as below:

```

1
No such packages available, see all the possible packages

Package_no: 3, Package for: Andaman, from: Ahmedabad
Rate: 26999.0, Duration: 6, Category: Group, link: https://www.thomascook.in/holidays/india-tour-packages/andaman-tour-packages
Package_no: 4, Package for: Kashmir, from: Ahmedabad
Rate: 30000.0, Duration: 7, Category: Group, link: https://www.thomascook.in/holidays/india-tour-packages/jammu-and-kashmir-tour-packages
Package_no: 5, Package for: Manali, from: Mumbai
Rate: 10000.0, Duration: 5, Category: Romantic, link: https://www.thomascook.in/holidays/india-tour-packages/himachal-tour-packages/memorable-manali-volvo-package
Package_no: 1, Package for: Manali, from: Ahmedabad
Rate: 25000.0, Duration: 7, Category: Adventure, link: https://www.analaoutdoors.com/programmes.php?page=19&prog=24
Package_no: 2, Package for: Ooty, from: Ahmedabad
Rate: 15000.0, Duration: 3, Category: Family, link: https://www.makemytrip.com/holidays-india/
Select a package number or press 0 to exit
3
Choose: 1. Options
2. Reset Filter
3. Exit
3
Browse or Exit

```

The user chooses to pick package 3 (he could have exited too). Then he presses 3 to exit the browse package option.

Now, the same registered user **browses through the hotels** similarly as shown below:

```

Choose to
0. exit
1. browsePackage
2. browseTransportMode
3. browsePlaces
4. browseHotels
5. browseHistory
6. Write Review
7. Navigate
4
Enter Place/Location
amritsar
1. city search 2. state search (1/2)
1
Enter city
amritsar

Hotel no: 6, Hotel: sher-e-punjab
Capacity: 80.0, Rating: 2.0
City: amritsar, State: punjab, Pincode: 456321.0
AC: f, WiFi: f, Geyser: t
Booking Link: www.tghiui.in

Hotel no: 7, Hotel: honest
Capacity: 56.0, Rating: 3.0
City: amritsar, State: punjab, Pincode: 852641.0
AC: t, WiFi: t, Geyser: f
Booking Link: www.zomato.com

Hotel no: 8, Hotel: darshan
Capacity: 95.0, Rating: 4.0
City: amritsar, State: punjab, Pincode: 134598.0
AC: f, WiFi: t, Geyser: t
Booking Link: www.fhgh.com

Select a hotel or press 0 to exit
7

```

It can be seen that he/she has opted to select the hotel no 7. Thus, when he browses through the history, the database will be updated as well.



```

Select a hotel or press 0 to exit
7
Browse or Exit
Browse
Choose to
0. exit
1. browsePackage
2. browseTransportMode
3. browsePlaces
4. browseHotels
5. browseHistory
6. Write Review
7. Navigate
5
Package_no: 3, Package for: Andaman, from: AhmedabadRate: 26999.0, Duration: 6, Category: Group, link: https://www.thomascook.in/holidays/india-tour-packages/andaman-tour-packages
Hotel no: 7, Hotel: honest
Capacity: 56.0, Rating: 3.0
City: amritsar, State: punjab, Pincode: 852641.0
AC: t, WiFi: t, Geyser: f
Booking Link: www.zomato.com
Browse or Exit

```

The same is printed even on the console on typing option 5.  
The database for browsed history looks as follow:

Edit Data - Pgsql (10.100.71.21:5432) - 201501230 - sen.browsedhistory

File Edit View Tools Help

No limit

	pid [PK] integer	history [PK] character varying(400)	browsedate [PK] date
1	1	Hotel no: 7, Hotel: honest	2018-04-15
2	1	Package_no: 3, Package for: Andaman, fr	2018-04-15
3	2	Hotel no: 7, Hotel: honest	2018-04-15
4	2	Package_no: 2, Package for: Ooty, from:	2018-04-15
5	3	Package_no: 1, Package for: Manali, fro	2018-04-15
*			

Now, the the functionality of **writing a review** can be seen below:  
The database before adding the review is:  
The places are as below:

Edit Data - Pgsql (10.100.71.21:5432) - 201501230 - sen.places

File Edit View Tools Help

No limit

	p_name [PK] character	city character va	state character va	pincode numeric(6,0)
1	Akshardham	Gandhinagar	Gujarat	382007
2	Sabarmati A	Ahmedabad	Gujarat	380027
3	Ahmedabad	Ahmedabad	Gujarat	380027
4	Rajkot		Gujarat	360001
5	Manek Chowk	Ahmedabad	Gujarat	380027
*				

The reviews of the places are:

Edit Data - Pgsqll (10.100.71.21:5432) - 201501230 - sen.place\_review

File Edit View Tools Help

No limit

	p_name [PK] character varying(20)	pid [PK] integer	rate integer	review [PK] character varying(300)
1	Ahmedabad	1	3	Good place but very crowded
2	Manek Chowk	3	4	food is awesome
3	Sabarmati Aashram	1	4	peaceful place
4	Sabarmati Aashram	2	5	Good museum and calm place
5	Sabarmati Aashram	3	5	very soothing place
*				

In the following manner the user browses the places:

```
SEN - Java - Project/src/Admin.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help

Run [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (15-Apr-2018, 5:32:38 PM)
Admin or User
User
Login Or SignUp Or Browse or Exit
Login
Enter Valid Email ID
sammal@microsoft.com
Enter password
sammal
Login Successfull
Browse or Exit
Browse
Choose to
0. exit
1. browsePackage
2. browseTransportMode
3. browsePlaces
4. browseHotels
5. browseHistory
6. Write Review
7. Navigate
3
Place: Akshardham, Rating: 0.0, City: Gandhinagar, State: Gujarat
Place: Sabarmati Aashram, Rating: 4.666666666666667, City: Ahmedabad, State: Gujarat
Place: Ahmedabad, Rating: 3.0, City: Ahmedabad, State: Gujarat
Place: Rajkot, Rating: 0.0, City: null, State: Gujarat
Place: Manek Chowk, Rating: 4.0, City: Ahmedabad, State: Gujarat

Read reviews? 1. yes
2. No
1
Which Place from above?
Sabarmati Aashram
Review 0: peaceful place, Reviewed by: Disha Kash, Rate: 4
Review 1: very soothing place, Reviewed by: Priya Patel, Rate: 5
Review 2: Good museum and calm place, Reviewed by: Sooraj Lukh, Rate: 5
Browse or Exit
```

It can be seen that when the user reads the reviews, he sees the cumulative rate scores of each of the place. If the rates are not available then it is 0.

Now the user can **rate a place** as shown below:

```

Browse
Choose to
0. exit
1. browsePackage
2. browseTransportMode
3. browsePlaces
4. browseHotels
5. browseHistory
6. Write Review
7. Navigate
6
Which place to be reviewed
Sabarmati Aashram
Choose from
1. Write Review
2. Post Picture
3. Rate a Place from 0-5
3
Rate the place from 0 to 5
4
Review added
Browse or Exit

```

As can be seen above, the user selects option 3 of rating a place and then presses 4 for the same.

Now, we see below that the user **writes a review for a place** by choosing 6 and then adding the place and then selecting 1:

```

Browse
Choose to
0. exit
1. browsePackage
2. browseTransportMode
3. browsePlaces
4. browseHotels
5. browseHistory
6. Write Review
7. Navigate
6
Which place to be reviewed
Lucknow
Add the place
Add the city
Lucknow
Add the state
Uttar Pradesh
Add the pincode
220067
Choose from
1. Write Review
2. Post Picture
3. Rate a Place from 0-5
1
Write Review within 1 line
The food is great and you have chance to relive culture
Rate from 0 to 5
4
review added
Browse or Exit

```

If the place does not exist, then the place is added to the database as can be shown below (Lucknow did not exist in the database initially):



Edit Data - Pgsql (10.100.71.21:5432) - 201501230 - sen.places

File Edit View Tools Help

No limit

	p_name [PK] character vary	city character vai	state character vai	pincode numeric(6,0)
1	Akshardham	Gandhinagar	Gujarat	382007
2	Sabarmati Aashra	Ahmedabad	Gujarat	380027
3	Ahmedabad	Ahmedabad	Gujarat	380027
4	Rajkot		Gujarat	360001
5	Manek Chowk	Ahmedabad	Gujarat	380027
6	Lucknow	Lucknow	Uttar Prade	220067
*				

The updated review table can be seen below, where the review as well as the rating provided (by user with pid = 7) are added.

Edit Data - Pgsql (10.100.71.21:5432) - 201501230 - sen.place\_review

File Edit View Tools Help

No limit

	p_name [PK] character varying(20)	pid [PK] integer	rate integer	review [PK] character varying(300)
1	Ahmedabad	1	3	Good place but very crowdy
2	Lucknow	7	4	The food is great and you have chance to relive culture
3	Manek Chowk	3	4	food is awesome
4	Sabarmati Aashram	1	4	peaceful place
5	Sabarmati Aashram	2	5	Good museum and calm place
6	Sabarmati Aashram	3	5	very soothing place
7	Sabarmati Aashram	7	4	''
*				

User can also **browse transport modes**. Our system will show available modes and booking site link for the same. As we can see from below whichever mode from train/bus/car/flight is available for given source and destination will be shown.

Login Or SignUp Or Browse  
browse  
Choose to 1. browsePackage  
2. browseTransportMode  
3. browsePlaces  
4. browseHotels  
  
2  
Enter source  
amritsar  
Enter Destination  
banglore  
  
Flight link: www.spicejet.com

Login Or SignUp Or Browse  
browse  
Choose to 1. browsePackage  
2. browseTransportMode  
3. browsePlaces  
4. browseHotels

2  
Enter source  
abad  
Enter Destination  
amritsar  
|  
Flight link: www.indigo.in  
Train link: www.irctc.com

Login Or SignUp Or Browse

Admin or User  
user  
Login Or SignUp Or Browse  
browse  
Choose to 1. browsePackage  
2. browseTransportMode  
3. browsePlaces  
4. browseHotels

2  
Enter source  
rajkot  
Enter Destination  
abad

Bus link: www.redbus.in  
Car link: www.ola.com  
Train link: www.irctc.com

Login Or SignUp Or Browse  
browse  
Choose to 1. browsePackage  
2. browseTransportMode  
3. browsePlaces  
4. browseHotels

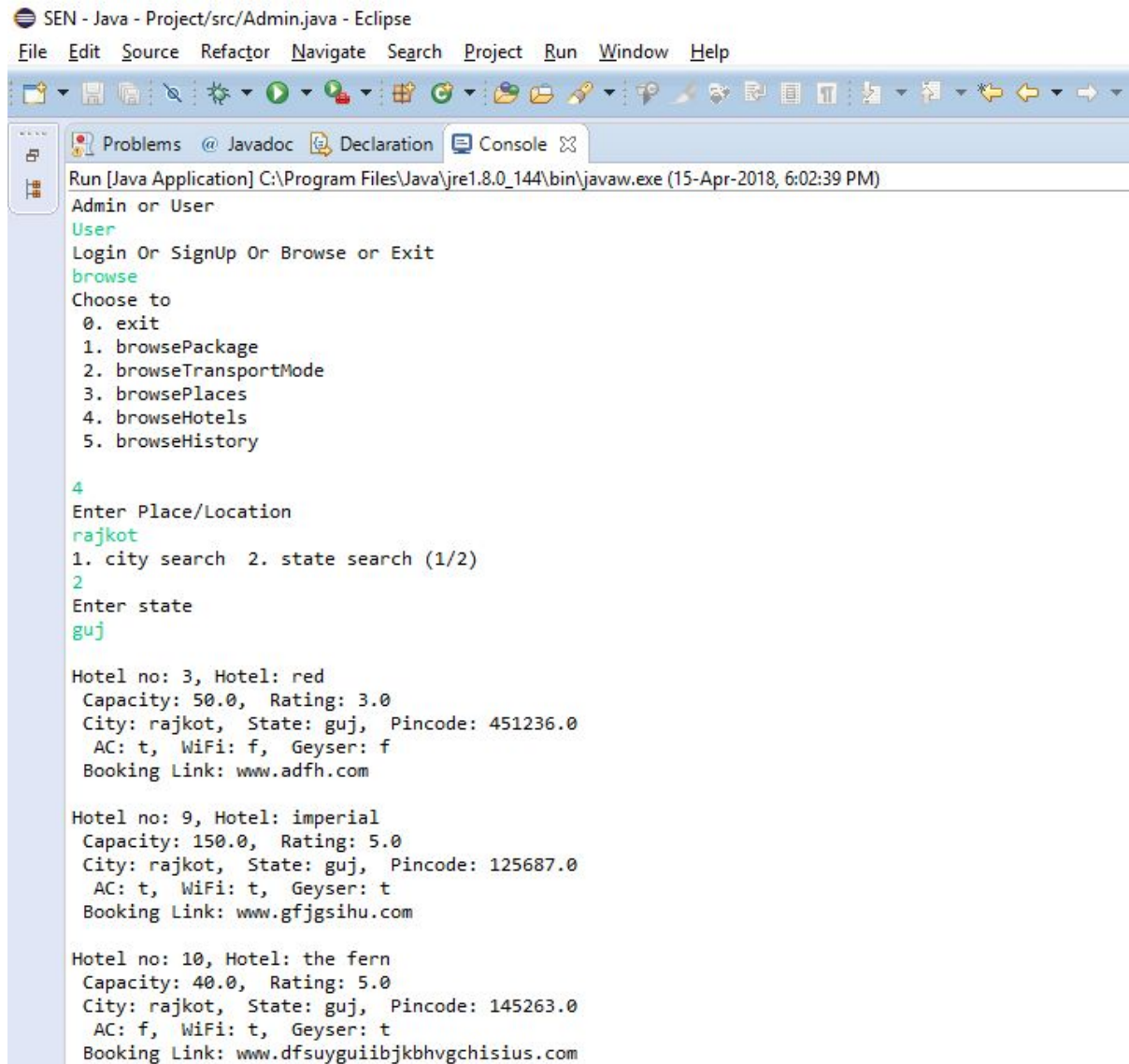
2  
Enter source  
abad  
Enter Destination  
gandhinagar  
|  
Bus link: www.mybus.com  
Car link: www.uber.com

Login Or SignUp Or Browse

### 3. Functionalities for System User

The system users can use the system without logging in and signing up. The options they can see are related to browsing. Also, they are able to see their browsed history(the packages, transportation, hotels selected by them) but these do not get stored in the database.

Also, they are able to see the following functionalities only:



```
SEN - Java - Project/src/Admin.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help

Run [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (15-Apr-2018, 6:02:39 PM)
Admin or User
User
Login Or SignUp Or Browse or Exit
browse
Choose to
0. exit
1. browsePackage
2. browseTransportMode
3. browsePlaces
4. browseHotels
5. browseHistory

4
Enter Place/Location
rajkot
1. city search 2. state search (1/2)
2
Enter state
guj

Hotel no: 3, Hotel: red
Capacity: 50.0, Rating: 3.0
City: rajkot, State: guj, Pincode: 451236.0
AC: t, WiFi: f, Geyser: f
Booking Link: www.adfh.com

Hotel no: 9, Hotel: imperial
Capacity: 150.0, Rating: 5.0
City: rajkot, State: guj, Pincode: 125687.0
AC: t, WiFi: t, Geyser: t
Booking Link: www.gfjgsihu.com

Hotel no: 10, Hotel: the fern
Capacity: 40.0, Rating: 5.0
City: rajkot, State: guj, Pincode: 145263.0
AC: f, WiFi: t, Geyser: t
Booking Link: www.dfsuyguiibjkbhvgchisius.com
```

Even they are just show the browsed history which is never saved in the database. It can be seen that the user has the option to choose a hotel state wise too.

**The Source code can be found at the link:**

<https://drive.google.com/open?id=17V4JqQXI02VzGhoR4RpRbdHjHYprblM8>

The src folder has the .java files

**Note:** Many methods have the task of getting the database, thus they are just written down, however their tasks are being performed.