Final Project Report

EXPRESS PARKING

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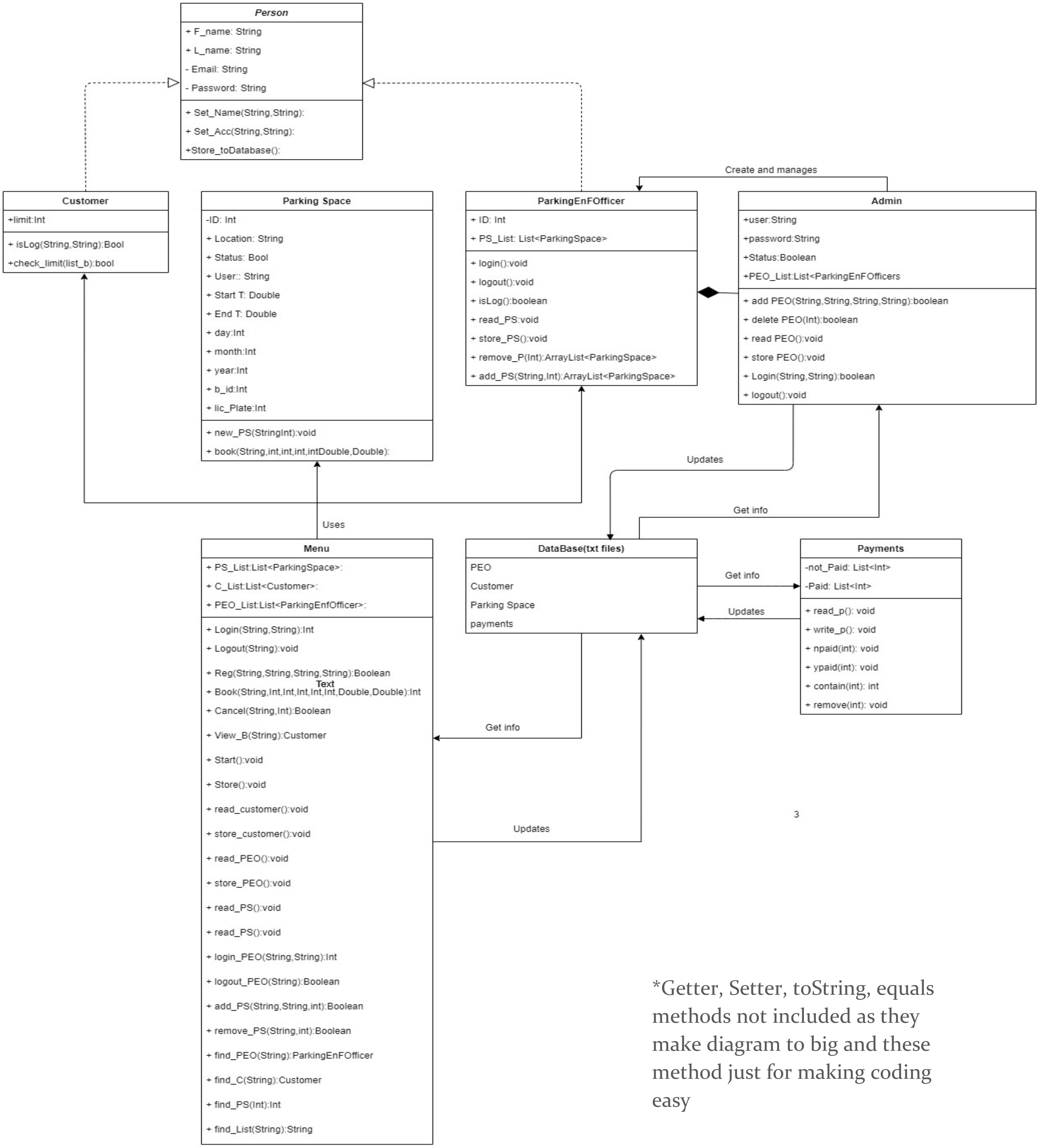
York ID:- 217514514
Prism ID:- lordwolf
Course:-EECS3311

Content:-

1. UML*



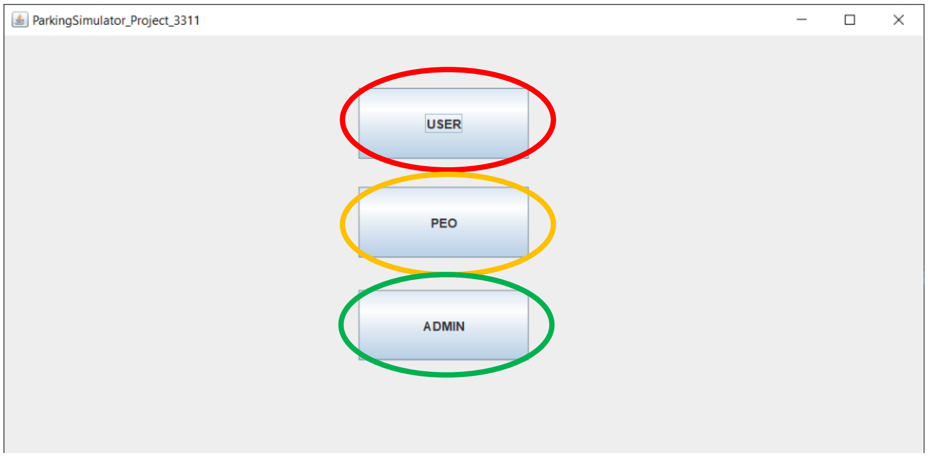
*Getter, Setter, toString, equals methods not included as they make diagram to big and these method just for making coding easy

2. GUI AND EXAMPLE DATA ILLUSTRATION

System Starts from here:-

There are three you can login:-

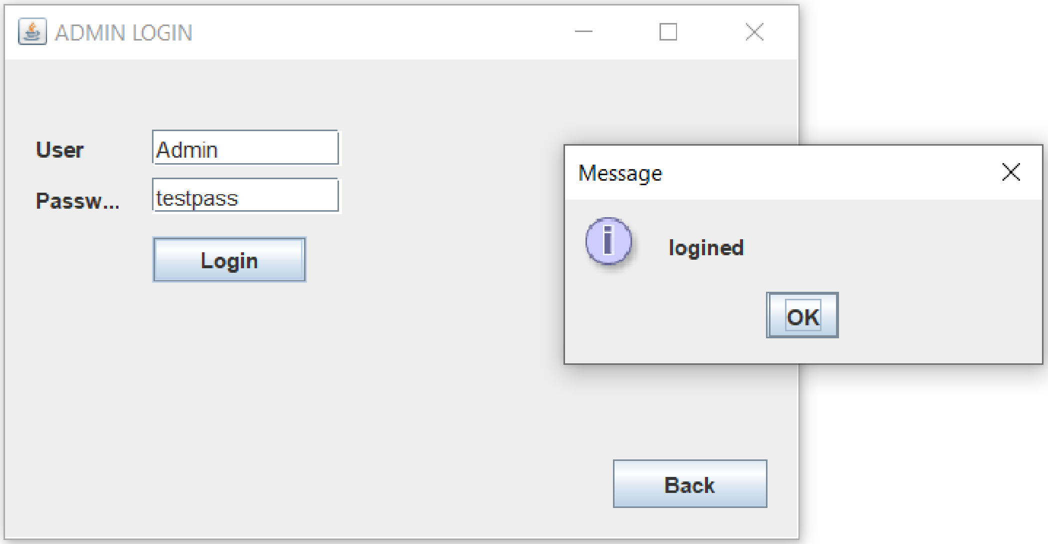
1. As Customer through "USER"
2. As Parking Enforcement Officer through "PEO"
3. As Admin through "ADMIN"



Let go through ADMIN:-

For testing purpose User:- Admin Password:- testpass

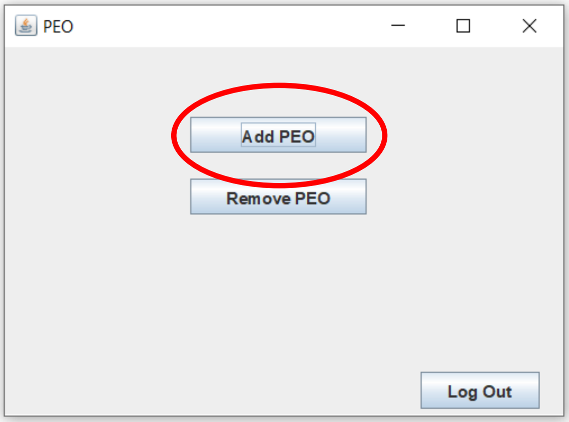
From this 4.1 Manage Parking Enforcement Officer requirements starts

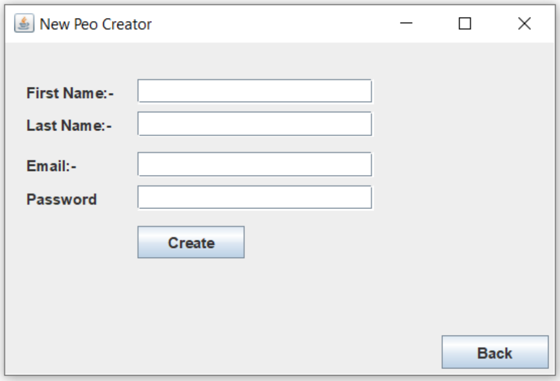


User: Admin
Passw...: testpass

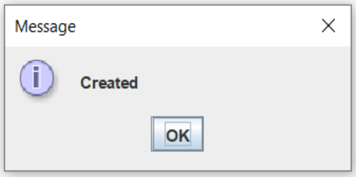
logined

To add new PEO go through Add PEO



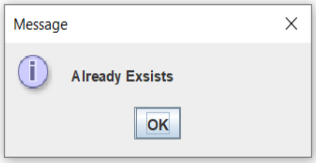


You can add new PEO here and if info is right message appears

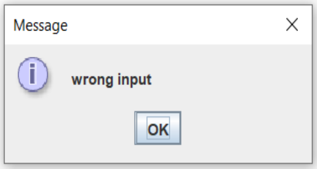


Created

Else if already existed or any info not filled

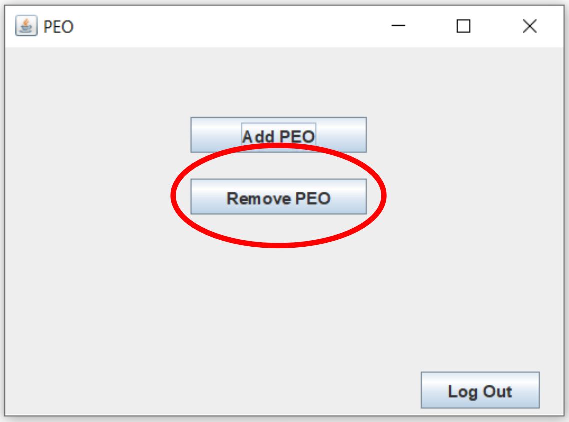


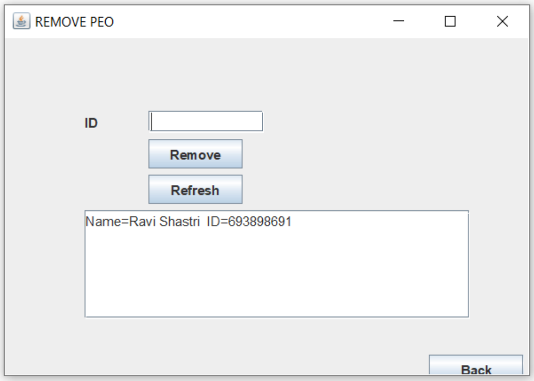
Already Exsists



wrong input

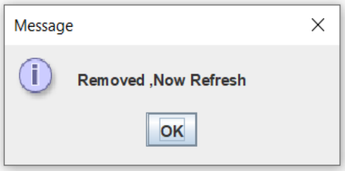
To reomve already existed PEO





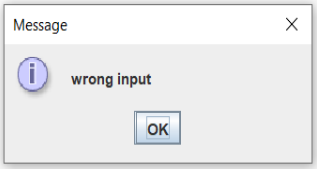
Name=Ravi Shastri ID=693898691

You delete PEO here and a list is also given for you and if info is right



Removed ,Now Refresh

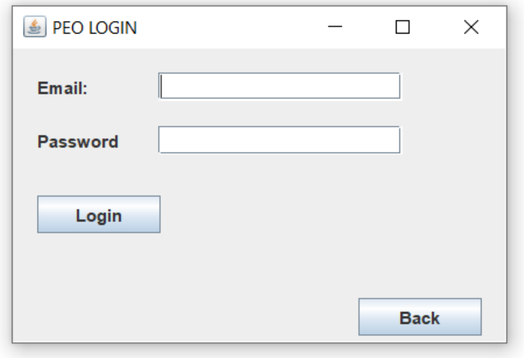
Info is Wrong



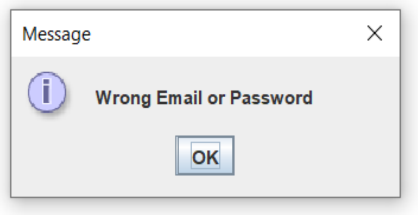
wrong input

Now we Go through PEO

From here 4.8 Manage Parking Spaces requirements Start



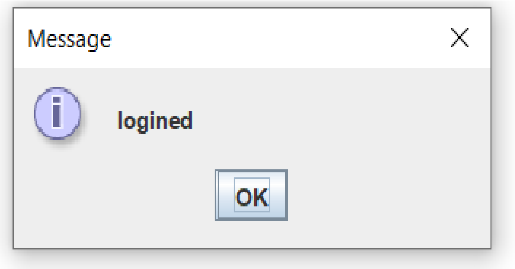
Wrong Info



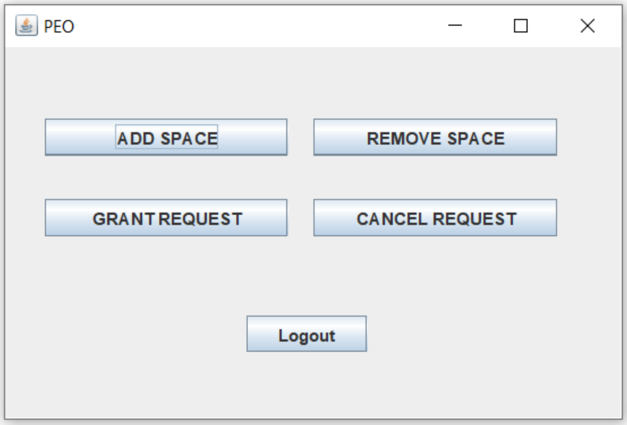
Wrong Email or Password

Right Info, For test try :-

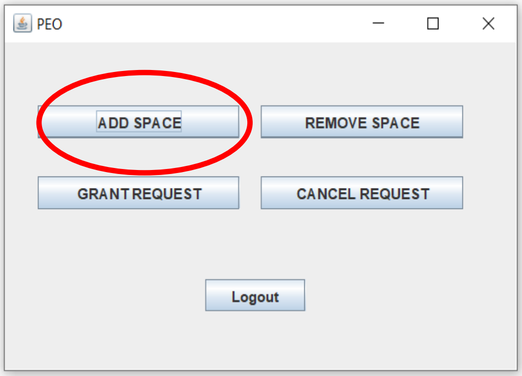
Email-rh@gm.com P:-12345

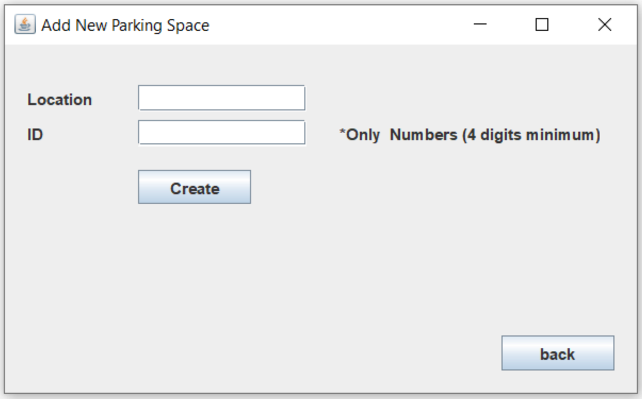


logined

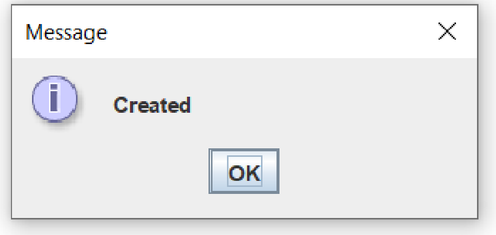


To add new Parking Space



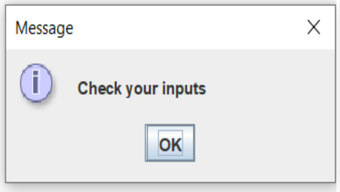


If info right then:-

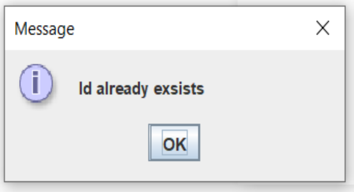


Created

Else,if wrong info or already exist

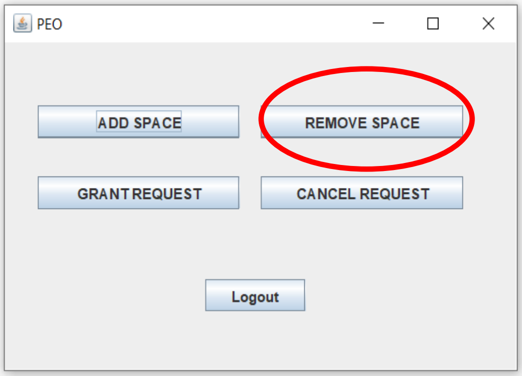


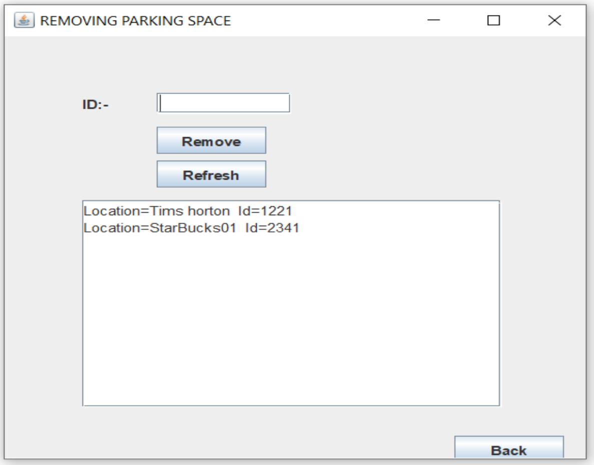
Check your inputs



Id already exsists

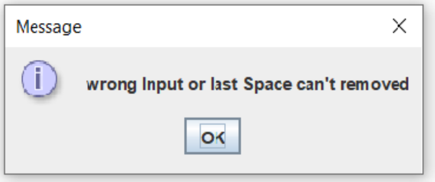
To remove Parking Space





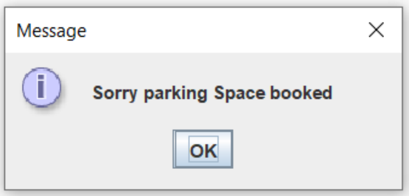
```
Location=Tims horton  Id=1221
Location=StarBucks01  Id=2341
```

Wrong input:-



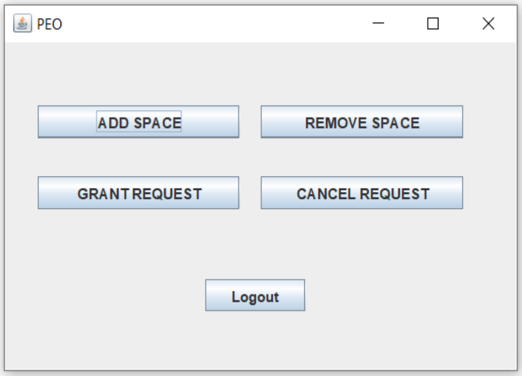
wrong Input or last Space can't removed

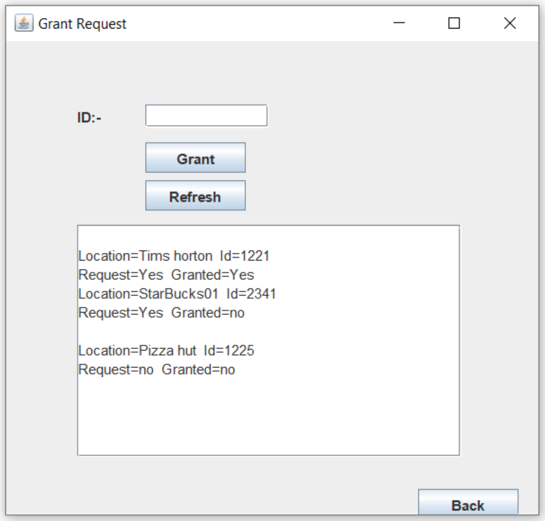
Correct input but space booked:-



Sorry parking Space booked

To Grant Request

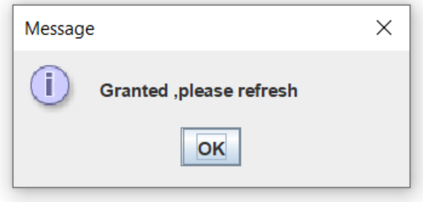




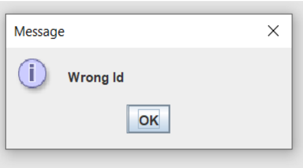
```
Location=Tims horton  Id=1221
Request=Yes  Granted=Yes
Location=StarBucks01  Id=2341
Request=Yes  Granted=no

Location=Pizza hut  Id=1225
Request=no  Granted=no
```

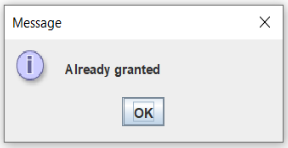
Message after Successful granting, wrong id or Already granted error



Granted ,please refresh

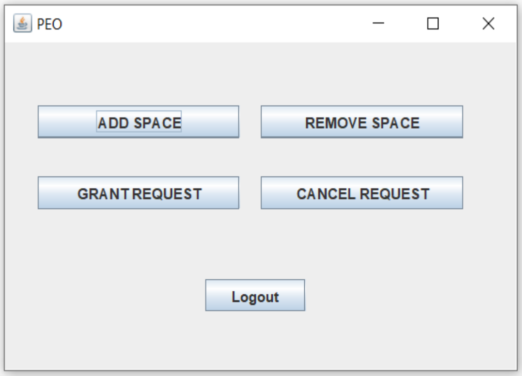


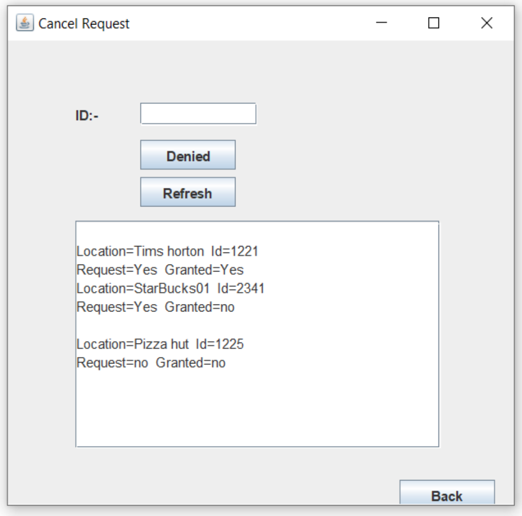
Wrong Id



Already granted

To Cancel Request

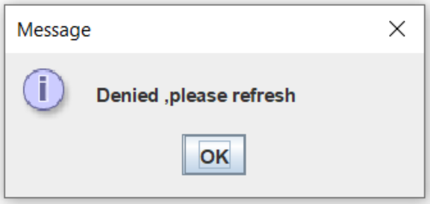




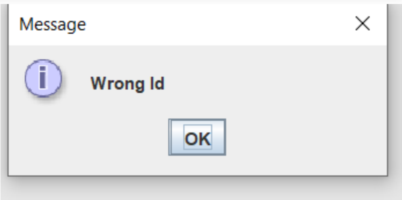
```
Location=Tims horton  Id=1221
Request=Yes  Granted=Yes
Location=StarBucks01  Id=2341
Request=Yes  Granted=no

Location=Pizza hut  Id=1225
Request=no  Granted=no
```

Message after Succesfull Denied or Wrong ID



Denied ,please refresh



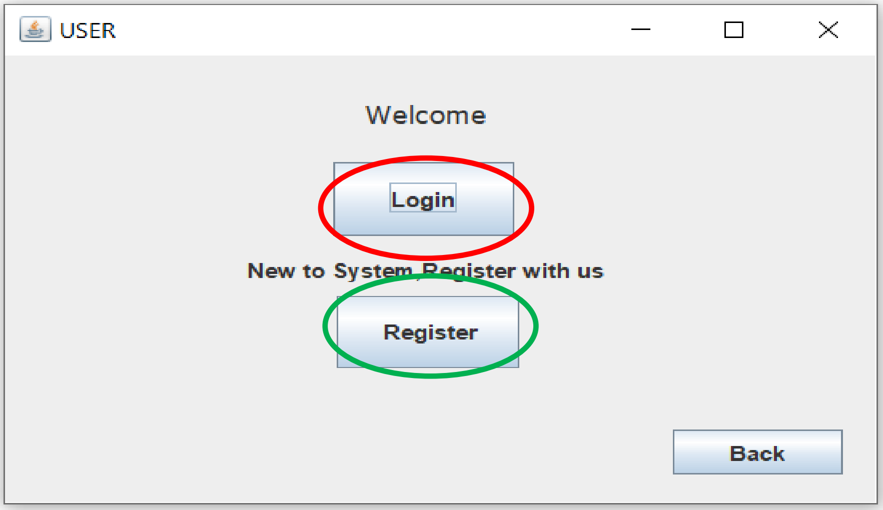
Wrong Id

Now we Go through Customer

There are two options:-

For new Customer go through "Register"

For old Customer go through "Login"

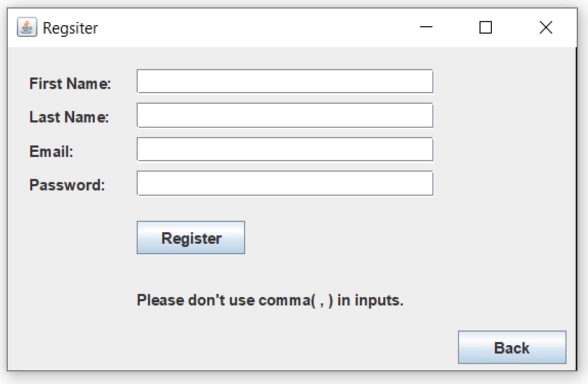


Welcome

New to System Register with us

Now we Go through Registration

From here 4.2 Customer Registration requirement starts



First Name:

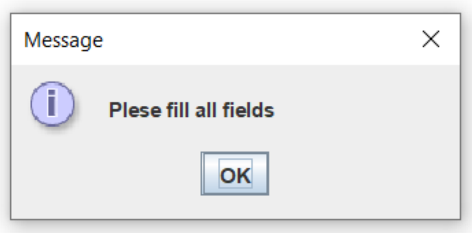
Last Name:

Email:

Password:

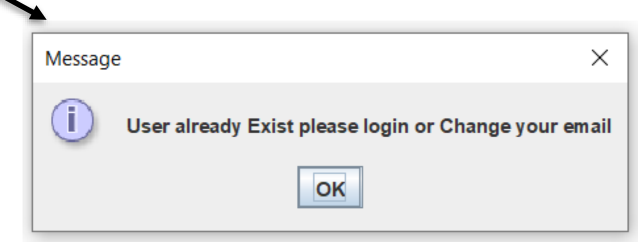
Please don't use comma(,) in inputs.

Info left empty



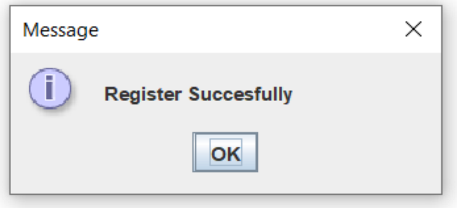
Plese fill all fields

Email already exists



User already Exist please login or Change your email

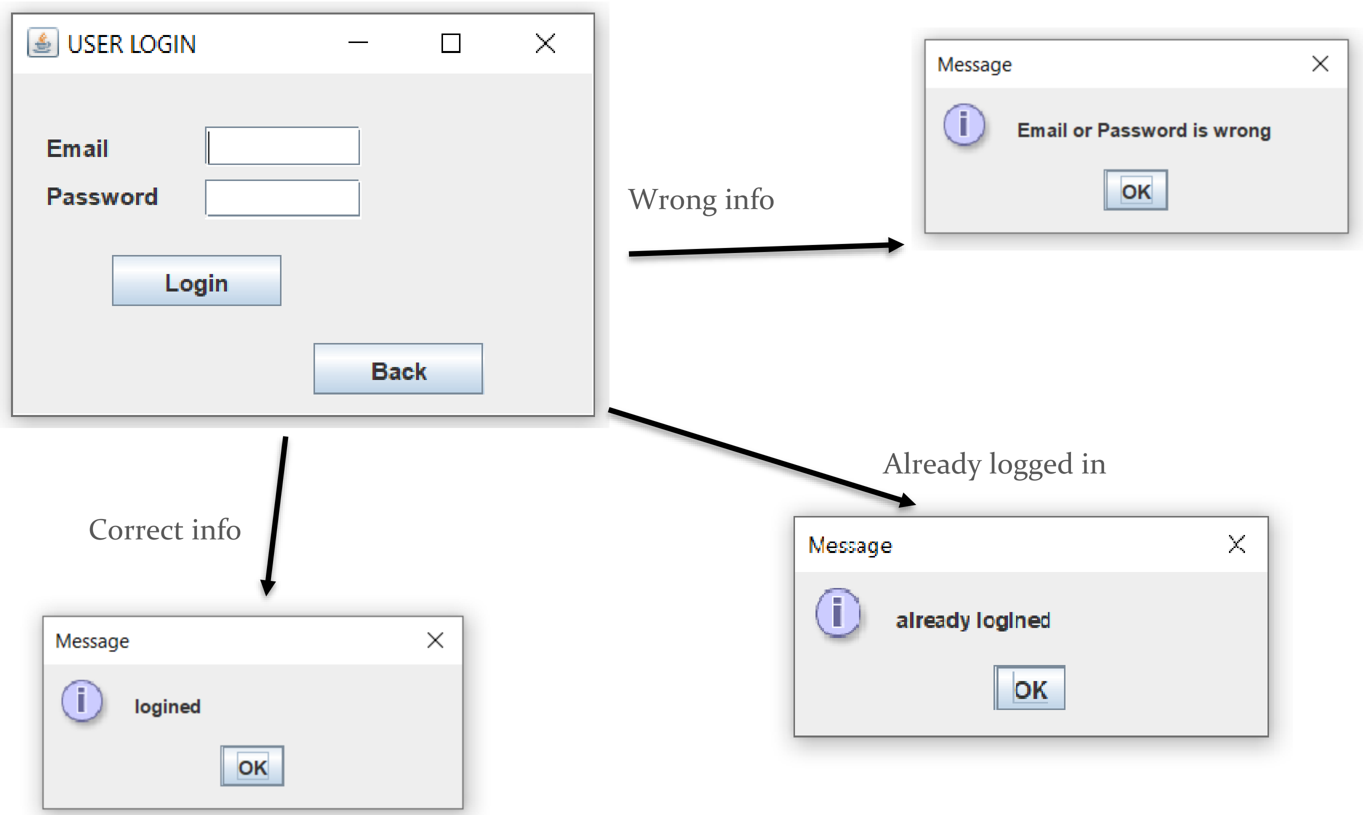
Successful Registration



Register Succesfully

Now we Go through Login

Now 4.3 User Login requirements will start



Wrong info

Email or Password is wrong

Already logged in

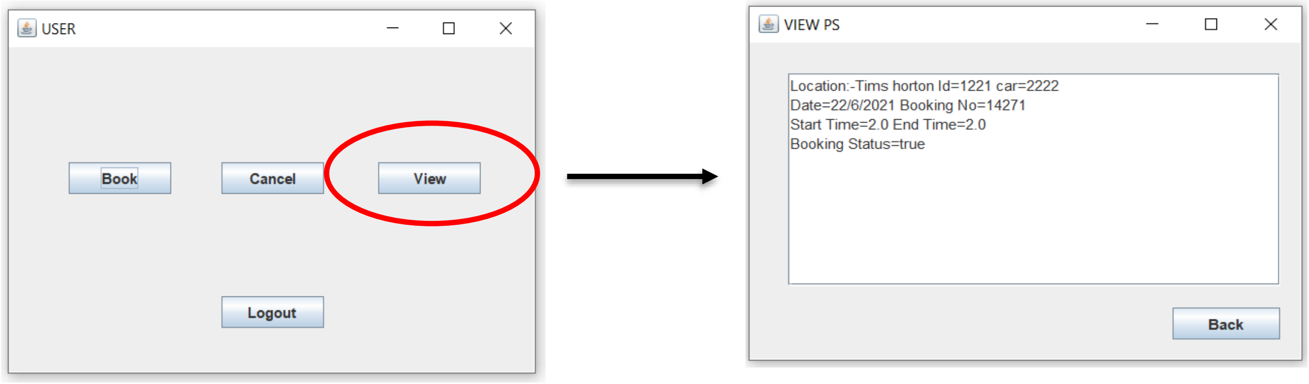
already logined

Correct info

logined

Now we Go through View option

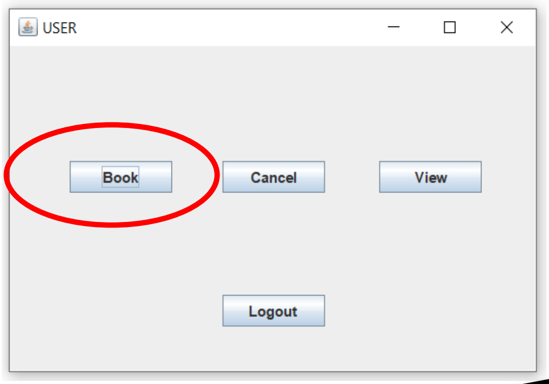
Now 4.7 View Bookings requirements will start

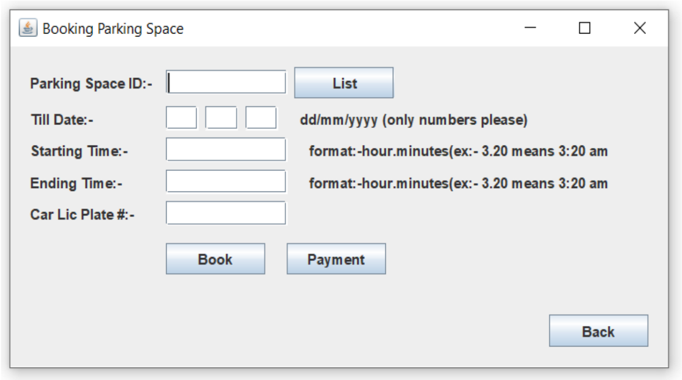


```
Location:-Tims horton Id=1221 car=2222
Date=22/6/2021 Booking No=14271
Start Time=2.0 End Time=2.0
Booking Status=true
```

Now we Go through Book option

Now 4.4 Book a Parking Space requirements will start





Parking Space ID:-

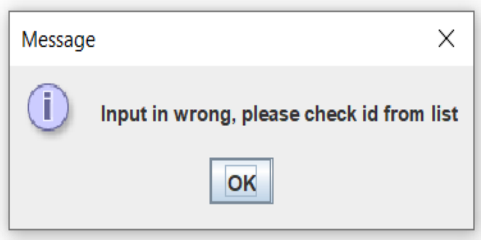
Till Date:- dd/mm/yyyy (only numbers please)

Starting Time:- format:-hour.minutes(ex:- 3.20 means 3:20 am

Ending Time:- format:-hour.minutes(ex:- 3.20 means 3:20 am

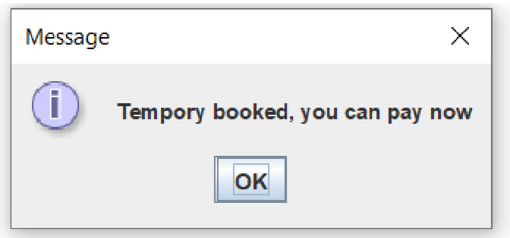
Car Lic Plate #:-

Worng ID



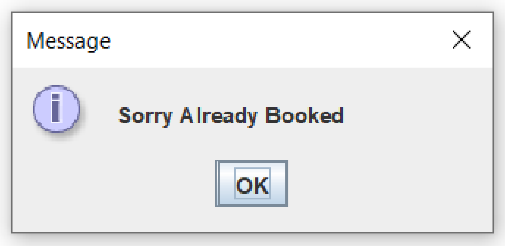
Input in wrong, please check id from list

Booked



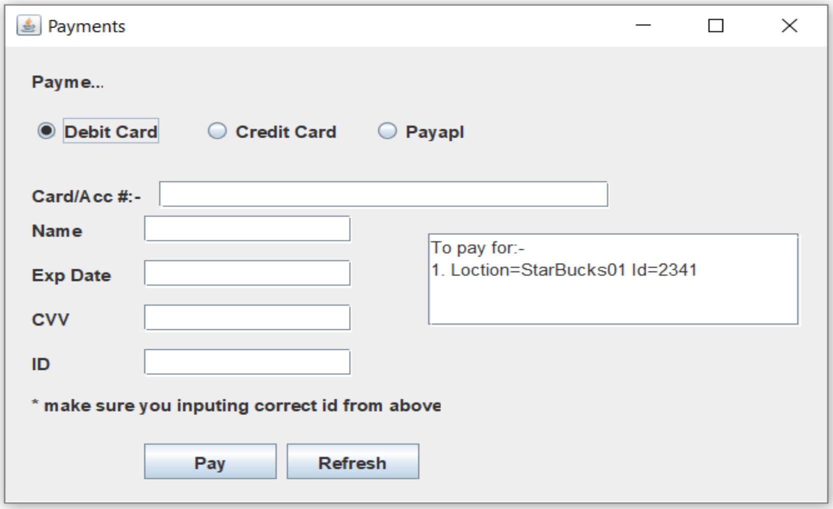
Tempory booked, you can pay now

Already Booked



Sorry Already Booked

After temporary booked we will see how to pay and here 4.6 Payment requirement will start



Payme...

● Debit Card ○ Credit Card ○ Payapl

Card/Acc #:-

Name

Exp Date

CVV

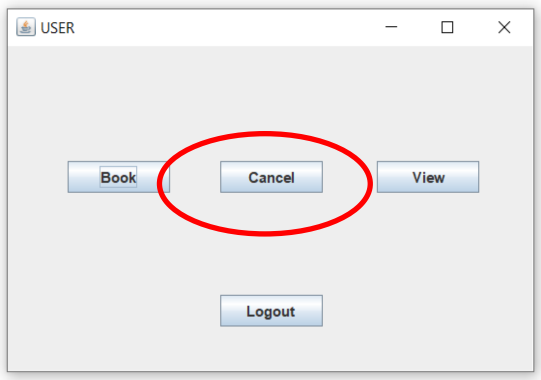
ID

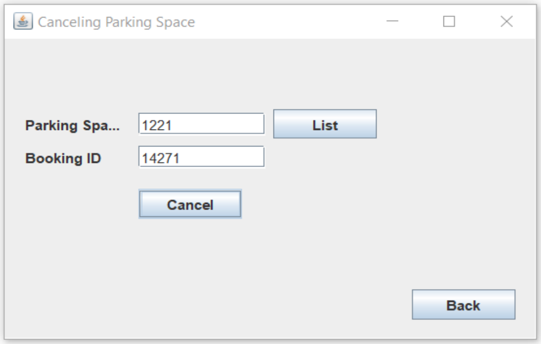
To pay for:-
1. Loction=StarBucks01 Id=2341

* make sure you inputing correct id from above

Now we Go through Cancel option

Now 4.5 Cancel a Parking space requirement will start



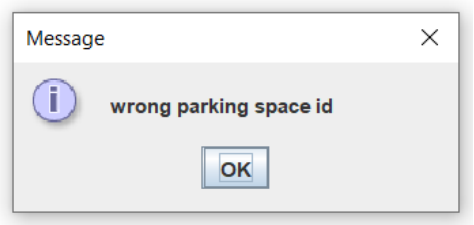


Parking Spa... 1221

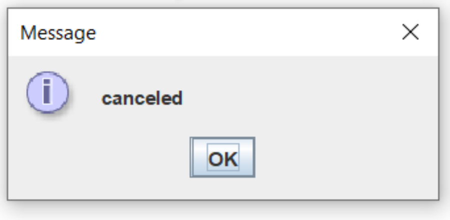
Booking ID 14271

Wrong Id or not booked buy user

Successful Cancelation



wrong parking space id



canceled

3. DIFFERERNCE BETWEEN FINAL AND INITIAL DESIGN

There are a lot of differences between the initial design and final because of following fators:-

1.Intial Design was made for database(SQl based),but final Design database is just text files.

2.Some methods ,variables and concepts can only come to mind while coding so initial design doesn't have those.

3.Initial design had many faults which were corrected in final design while working on implemntation.

Differences between them are stated below:-

1.Database is now text files instead of a Database Management System.

1.Person has being change from a interface to abstract class.

2.Many new methods and variables are added to classes like menu, admin to counter the database issue

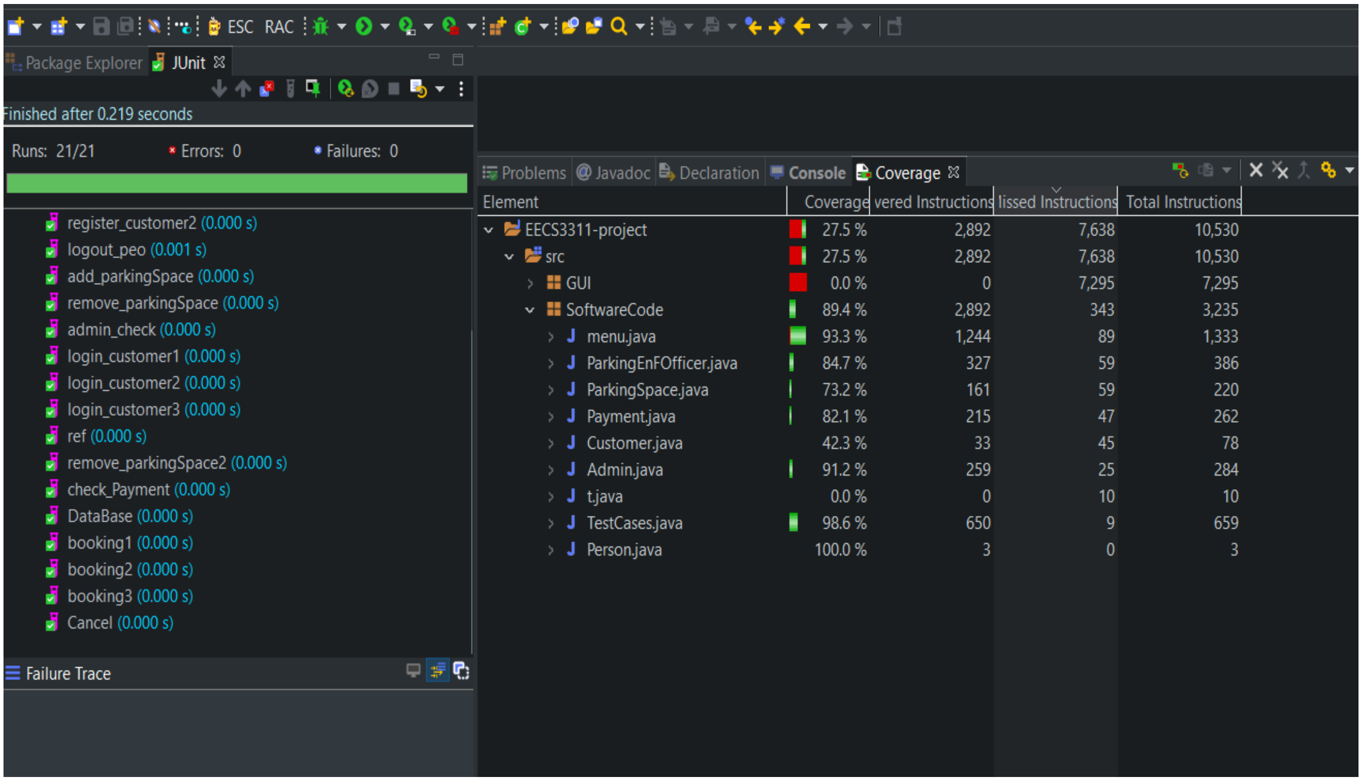
3.All the faults and wrong point were corrected by either removing or adding variables and methods or by changing the working or process of the classes.

4.Relatioship between some classes changed to tactical the faults, shortcomings of project and database issue.

*No new class was introduced so no change in that area.

4.TEST CASE COVERAGE

SoftwareCode is the non-GUI package and coverage in 89.4% with test cases made for project



```
Finished after 0.219 seconds

Runs: 21/21      Errors: 0      Failures: 0

register_customer2 (0.000 s)
logout_peo (0.001 s)
add_parkingSpace (0.000 s)
remove_parkingSpace (0.000 s)
admin_check (0.000 s)
login_customer1 (0.000 s)
login_customer2 (0.000 s)
login_customer3 (0.000 s)
ref (0.000 s)
remove_parkingSpace2 (0.000 s)
check_Payment (0.000 s)
DataBase (0.000 s)
booking1 (0.000 s)
booking2 (0.000 s)
booking3 (0.000 s)
Cancel (0.000 s)
```

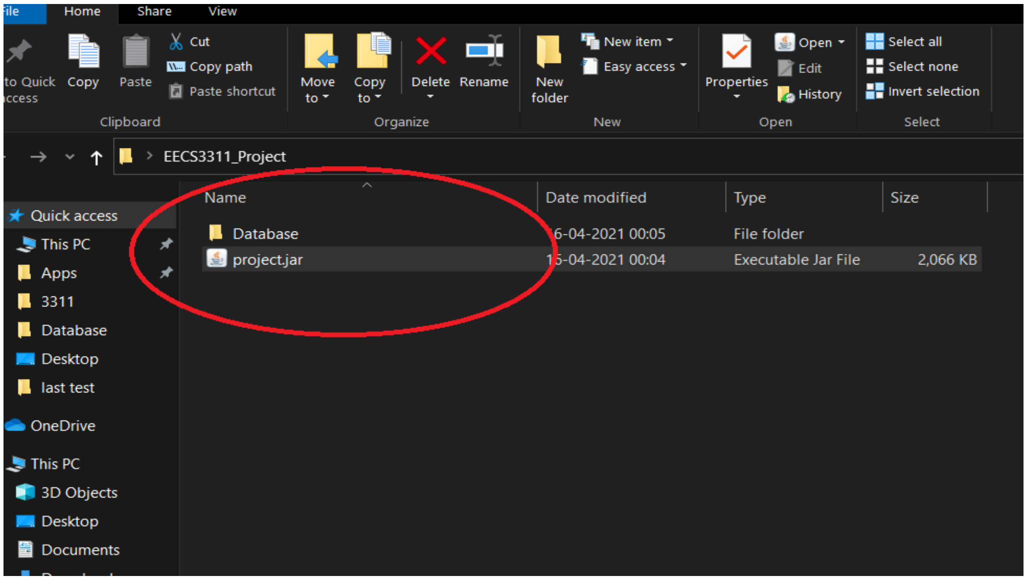
Element	Coverage	vered Instructions	lissed Instructions	Total Instructions
EECS3311-project	27.5 %	2,892	7,638	10,530
src	27.5 %	2,892	7,638	10,530
GUI	0.0 %	0	7,295	7,295
SoftwareCode	89.4 %	2,892	343	3,235
menu.java	93.3 %	1,244	89	1,333
ParkingEnFOfficer.java	84.7 %	327	59	386
ParkingSpace.java	73.2 %	161	59	220
Payment.java	82.1 %	215	47	262
Customer.java	42.3 %	33	45	78
Admin.java	91.2 %	259	25	284
t.java	0.0 %	0	10	10
TestCases.java	98.6 %	650	9	659
Person.java	100.0 %	3	0	3

5. How to run

There are two ways:-

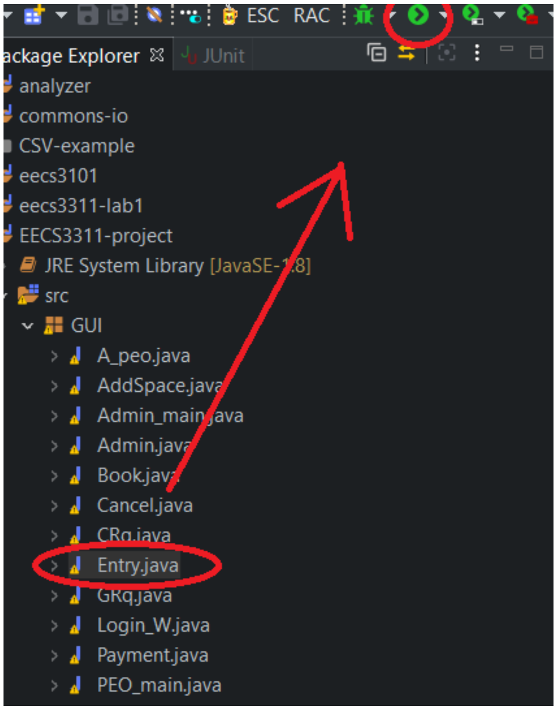
1.Either run from jar file:- project.jar

* Keep these file together for that as folder Database folder is required.



Name	Date modified	Type	Size
Database	6-04-2021 00:05	File folder	
project.jar	15-04-2021 00:04	Executable Jar File	2,066 KB

2.Run entry class from GUI folder of src in eclipse.



ESC
RAC
ackage Explorer
JUnit
analyzer
commons-io
CSV-example
eecs3101
eecs3311-lab1
EECS3311-project
JRE System Library [JavaSE-1.8]
src
GUI
A_peo.java
AddSpace.java
Admin_main.java
Admin.java
Book.java
Cancel.java
CRq.java
Entry.java
GRq.java
Login_W.java
Payment.java
PEO_main.java