

Pizza Delivery System

Introduction

This is a Pizza delivery System for “Pizza Man” who specializes in taking late night deliveries for hungry students and delivering direct to the door within 30 minutes of Order. We have made a simple console app for handling all the functionalities for the User.

On starting the application the user is presented with 3 choices:

- * Login
- * Register
- * Exit

Here the user can login with his email and pwd or Register with a new account.

Once the user has logged in, he is presented with a second menu with following choices :

- Order a Pizza
- Cancel an Order
- View Orders
- Edit Registration
- Exit

Here the user can order a Pizza by selecting the base, size , different toppings and other details of the Pizza. The user can also cancel an order but only within 10 minutes of the order. The user can view the orders ordered by him and edit his details.

We have used plain java for coding this app. We are also handling the errors when the user select a choice of what to do.

Analysis/Decisions

In our Analysis Phase, we made a design of how we should structure our code. We have made 5 entity classes namely :

- * Base
- * Order
- * Size
- * Topping
- * User

These entities are saving all the respective information about them.

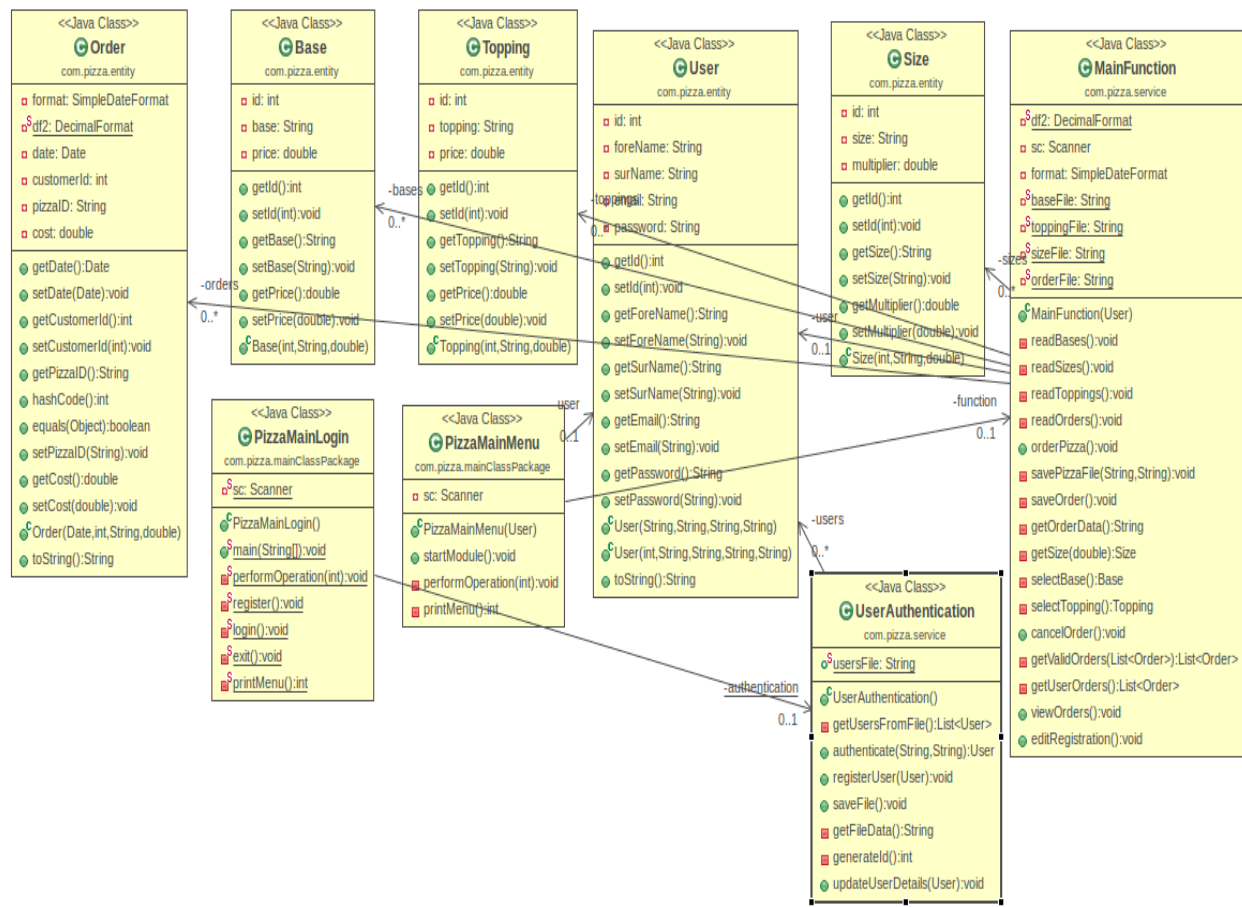
Apart from this we have also made two Menu classes and two functional classes to perform the functionality.

At the beginning our Login Menu class starts and perform the login functionality and registration process with the help of UserAuthentication class. Once the user successfully logs in The control is passed to PizzaMainMenu class which then performs the functionality with the MainFunction class.

Design

We have followed an object oriented approach.

Class Diagram

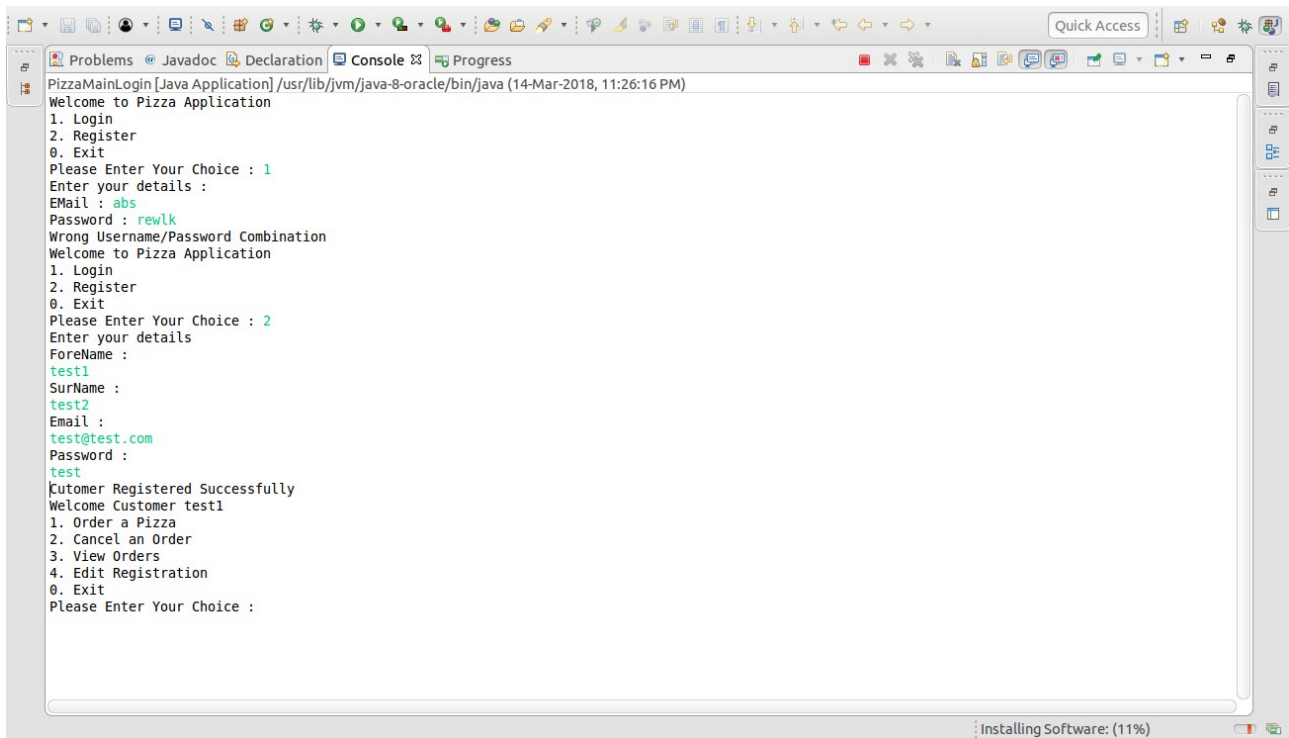


Testing

We have done a thorough testing of the code.

Sno	Test Case	Expected Result	Actual Result	Result
1	Login a User	User login succes	User login succes	Pass
2	Register a User	User registered Successfully	User registered Successfully	Pass
3	Exit	Terminates the program	Terminates the program	Pass
4	Order a Pizza	Pizza ordered successfully	Pizza ordered successfully	Pass
5	Cancel an Order	Ordered Cancelled successfully	Ordered Cancelled successfully	Pass
6	Edit Registration	Email and pwd changed successfully	Email and pwd changed successfully	Pass

Test Screenshots

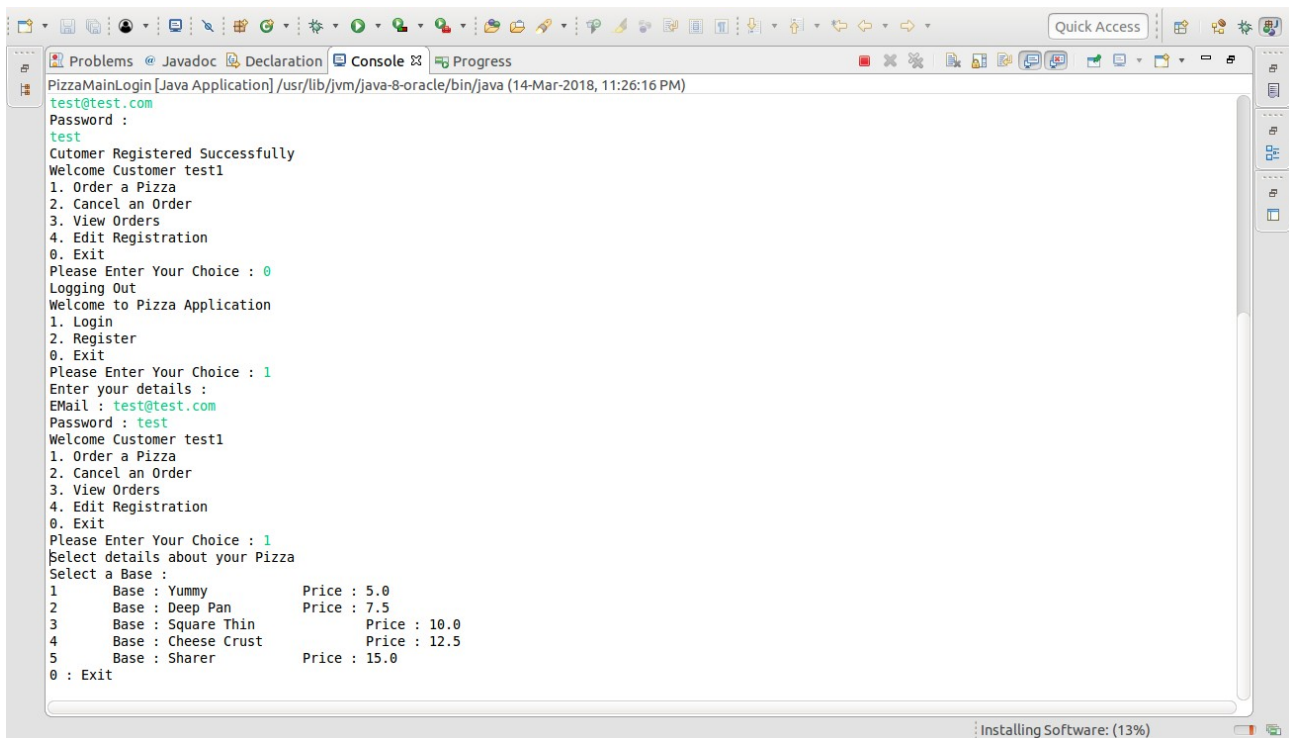


The screenshot shows a Java application window titled "PizzaMainLogin [Java Application] /usr/lib/jvm/java-8-oracle/bin/java (14-Mar-2018, 11:26:16 PM)". The console output displays the following sequence of events:

```
PizzaMainLogin [Java Application] /usr/lib/jvm/java-8-oracle/bin/java (14-Mar-2018, 11:26:16 PM)
Welcome to Pizza Application
1. Login
2. Register
0. Exit
Please Enter Your Choice : 1
Enter your details :
Email : abs
Password : rewlk
Wrong Username/Password Combination
Welcome to Pizza Application
1. Login
2. Register
0. Exit
Please Enter Your Choice : 2
Enter your details
ForeName :
test1
SurName :
test2
Email :
test@test.com
Password :
test
Customer Registered Successfully
Welcome Customer test1
1. Order a Pizza
2. Cancel an Order
3. View Orders
4. Edit Registration
0. Exit
Please Enter Your Choice :
```

The status bar at the bottom right indicates "Installing Software: (11%)".

Login And registration



The screenshot shows the same Java application window, now displaying the pizza ordering menu after successful registration. The console output continues from the previous state:

```
test@test.com
Password :
test
Customer Registered Successfully
Welcome Customer test1
1. Order a Pizza
2. Cancel an Order
3. View Orders
4. Edit Registration
0. Exit
Please Enter Your Choice : 0
Logging Out
Welcome to Pizza Application
1. Login
2. Register
0. Exit
Please Enter Your Choice : 1
Enter your details :
Email : test@test.com
Password : test
Welcome Customer test1
1. Order a Pizza
2. Cancel an Order
3. View Orders
4. Edit Registration
0. Exit
Please Enter Your Choice : 1
Select details about your Pizza
Select a Base :
1 Base : Yummy Price : 5.0
2 Base : Deep Pan Price : 7.5
3 Base : Square Thin Price : 10.0
4 Base : Cheese Crust Price : 12.5
5 Base : Sharer Price : 15.0
0 : Exit
```

The status bar at the bottom right indicates "Installing Software: (13%)".

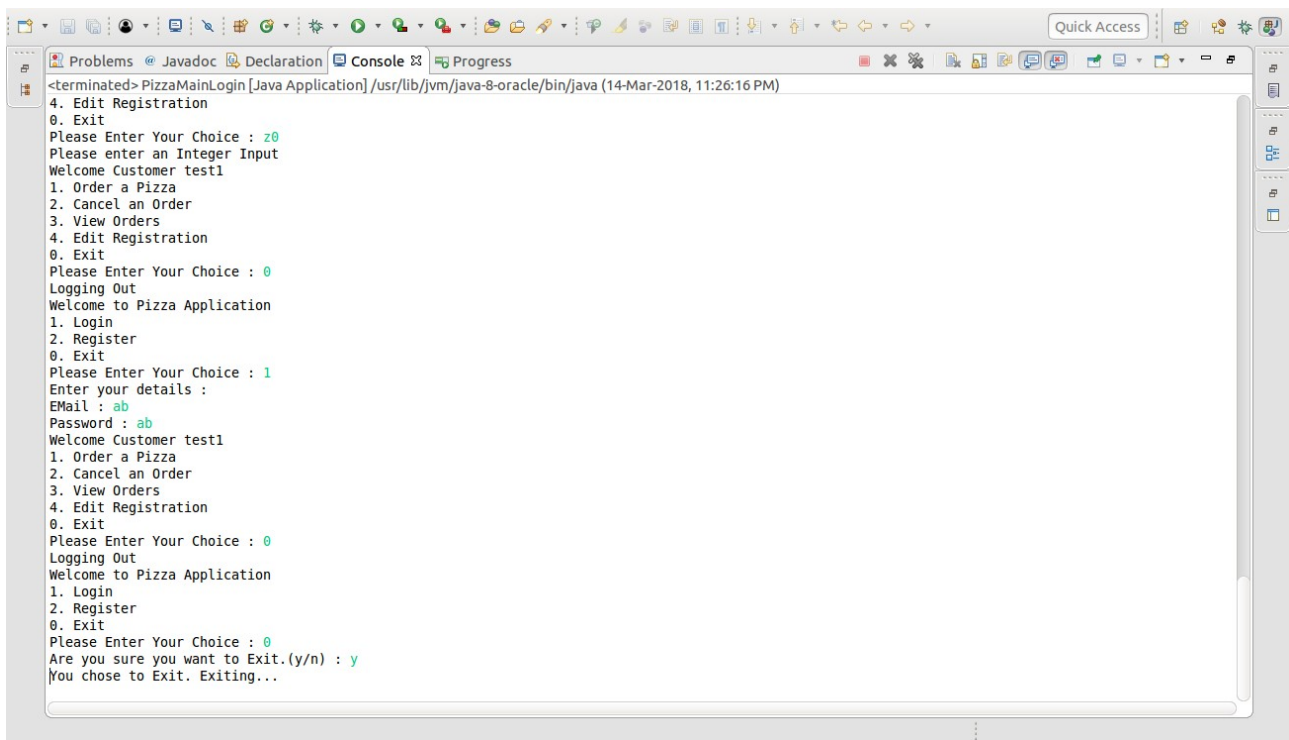
Order Pizza

```
Problems @ Javadoc Declaration Console Progress
PizzaMainLogin [Java Application] /usr/lib/jvm/java-8-oracle/bin/java (14-Mar-2018, 11:26:16 PM)
5 Base : Sharer Price : 15.0
0 : Exit
2
Deep Pan
Select a Topping :
1 Topping : Chorizo Sausage Price : 2.0
2 Topping : Magic Herbs Price : .3
3 Topping : Garlic Butter Price : .5
4 Topping : Green Peppers Price : .5
5 Topping : Ground Meat Price : 2.0
6 Topping : Jalapeno Peppers Price : 1.0
7 Topping : Meatballs Price : 3.0
8 Topping : Mushrooms Price : .5
9 Topping : Onions Price : .5
10 Topping : Pastrami Price : 2.0
11 Topping : Pepperoni Price : 2.0
12 Topping : Pineapple Price : .5
13 Topping : Sweetcorn Price : .5
14 Topping : Tandoori Chicken Price : 2.0
15 Topping : Tomato Price : .5
16 Topping : Tuna Price : 2.5
17 Topping : Kebab Price : 1.5
18 Topping : Veggie Chunks Price : 1.0
19 Topping : Chips Price : 1.5
20 Topping : Mango Cubes Price : .5
0 : Exit
3
Garlic Butter
Do you want to add another Topping(y/n) : n
Select a Size :
1 Size : standard Total Cost Price : 8.0
2 Size : medium Total Cost Price : 12.0
3 Size : deluxe Total Cost Price : 16.0
0 : Exit
3
Do you confirm your order (y/n) :
```

Order and View Pizza

```
Problems @ Javadoc Declaration Console Progress
PizzaMainLogin [Java Application] /usr/lib/jvm/java-8-oracle/bin/java (14-Mar-2018, 11:26:16 PM)
4. Edit Registration
0. Exit
Please Enter Your Choice : 2
Select an Order to Remove :
1 Order : P1521050272642-10.0
1
Order cancelled successfully
Welcome Customer test1
1. Order a Pizza
2. Cancel an Order
3. View Orders
4. Edit Registration
0. Exit
Please Enter Your Choice : 3
Orders for test1
No Order exist for test1
Date Size Base Price
Welcome Customer test1
1. Order a Pizza
2. Cancel an Order
3. View Orders
4. Edit Registration
0. Exit
Please Enter Your Choice : 4
Enter new Email id :
ab
Enter new Password :
ab
User registration updated successfully.
Welcome Customer test1
1. Order a Pizza
2. Cancel an Order
3. View Orders
4. Edit Registration
0. Exit
Please Enter Your Choice :
```

Cancel Order and Edit Registration



```
<terminated> PizzaMainLogin [Java Application] /usr/lib/jvm/java-8-oracle/bin/java (14-Mar-2018, 11:26:16 PM)
4. Edit Registration
0. Exit
Please Enter Your Choice : z0
Please enter an Integer Input
Welcome Customer test1
1. Order a Pizza
2. Cancel an Order
3. View Orders
4. Edit Registration
0. Exit
Please Enter Your Choice : 0
Logging Out
Welcome to Pizza Application
1. Login
2. Register
0. Exit
Please Enter Your Choice : 1
Enter your details :
EMail : ab
Password : ab
Welcome Customer test1
1. Order a Pizza
2. Cancel an Order
3. View Orders
4. Edit Registration
0. Exit
Please Enter Your Choice : 0
Logging Out
Welcome to Pizza Application
1. Login
2. Register
0. Exit
Please Enter Your Choice : 0
Are you sure you want to Exit.(y/n) : y
You chose to Exit. Exiting...
```

Check New Registraion and Exit

Conclusions

This is a great console application for handling all the pizza ordering applications for the Pizza Man. All the bill is generated successfully and all orders are handled automatically by using this software. We can further enhance this application by building a GUI for this.

Appendix

This application is totally our own work and we have not taken help from anywhere.