# **SOFTWARE ENGINEERING PROJECT**

# **FINAL REPORT**

**CSE3001** 

**FOODZAPP** 



# **Team Structure:**

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# **Abstract:**

Foodzapp is an online food ordering android based application. It is a third party application which can be integrated into any restaurant system. This will allow that restaurant or food chain to take orders through this app. There will be an interactive graphical user interface through which the user can select anything from the restaurant menu and can place order by giving his/her name, phone number and address. The user has an option to pay the bill online through this app or at the time of delivery.

# **Functional Requirements:**

- Total bar (displays total amount)
- Type of food item
- Menu (List in that type)
- Amount selecting dropdown
- My plate button
- Add or delete option against food items in My plate
- Address field
- Phone number field
- Name field
- Make payment button
- Cash on delivery option
- Credit card details

# Non-functional Requirements:

- Welcome screen
- Total amount
- List of food items
- Details of each food item
- My plate screen

# **FOODZAPP WBS**

4	Α	В	С	D	Е	F	G
1		Task	name	Duration (Days)	Start	Finish	Resource Names
2		FOC	DDZAPP	80	01-Aug-16	22-Oct-16	Ritwik Kala, Yashasvi Asthana, Suryansh Bhardwaj, Ritwik Gupta
3	1. Analysis			20	01-Aug-16	20-Aug-16	
4		1.1 User requirements report		20	01-Aug-16	20-Aug-16	
5			1.1.1 Interview Users	6	01-Aug-16	06-Aug-16	Ritwik Kala
6			1.1.2 Documents Requirements	14	07-Aug-16	20-Aug-16	Ritwik Gupta, Suryansh Bhardwaj
7			1.1.3 Milestone: user's sign off on requirements report				
8		1.2 Milestone: Anlaysis complete					
9							
10	2. Design			55	21-Aug-16	13-0ct-16	
11		2.1 XML Designing		15	21-Aug-16	04-Sep-16	
12			2.1.1 Menu module	7	21-Aug-16	27-Aug-16	Yashasvi Asthana
13			2.1.2 User credentials module	5	28-Aug-16	01-Sep-16	Suryansh Bhardwaj, Ritwik Gupta
14			2.1.3 Payment module	3			Ritwik Kala
15		2.2 JAVA coding		40		13-Oct-16	
16			2.2.1 Menu module	15			Yashasvi Asthana, Suryansh Bhardwaj
17			2.2.2 User credentials module	10			Yashasvi Asthana, Ritwik Kala
18			2.2.3 Payment module	10			Suryansh Bhardwaj, Ritwik Gupta
19			2.2.4 Relating modules	5	09-Oct-16	13-Oct-16	ALL
20							
_	3. Testing			5		18-Oct-16	
22		3.1 App Testing		5		18-Oct-16	
23			3.1.1 Alpha Testing	2			Yashasvi Asthana, Ritwik Kala
24			3.1.2 Beta Testing	3	16-Oct-16	18-Oct-16	Suryansh Bhardwaj, Ritwik Gupta
25							
26	4. Presentation			5		22-Oct-16	
27		4.1 Final presentation		.2		19-Oct-16	
28		4.2 Presentation in Exhibition		3	20-Oct-16	22-Oct-16	ALL
29		4.3 Milestone: Presentation complet	е				

# Software Requirements Specification

for

# **Foodzapp**

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7/9/2016

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#### 1. Introduction

#### 1.1 Purpose

Foodzapp is an Online Food Ordering Android based Application. It is a third party application which can be integrated into any restaurant system. This application therefore enables restaurants and food chains to take orders online in a convenient and organized manner. The document provides information about the application's requirements, both functional and non-functional as well as provides details regarding the User Interface(UI) and features of the application.

#### 1.2 Document Conventions

No such conventions have been used to show special significance. However, the document provides:

- (a) A description of the environment in which the application is expected to operate.
- (b) A definition of the application's features.
- (c) A specification of the application's functional and nonfunctional requirements.

#### 1.3 Intended Audience and Reading Suggestions

This document is intended for users, developers, testers as well as the project coordinators. The SRS has been organized as seen in the Table of Contents. The SRS includes an introduction, an overview of the product as well as functional and non-functional requirements and UI. Users can refer to the overview get a basic idea of the product whereas developers can hover over to the requirements to get more in depth knowledge about the application system.

#### 1.4 Product Scope

Foodzapp is an online food ordering android based application. It is a third party application which can be integrated into any restaurant system. This will allow that restaurant or food chain to take orders through this app. There will be an interactive graphical user interface through which the user can select anything from the restaurant menu and can place order by giving his/her name, phone number and address. The user has an option to pay the bill online through this app or at the time of delivery. The main selling point of the application is its exclusivity. An organization has to register with us before they can put their menu on the application which ensures quality. The application will provide the following capabilities:

- The application can be accessed via Wifi or Data Plan in cellphones.
- Users will be able to manage their own account.
- Search function for food items based on the categories and item name.

The project's clients have determined that this application will provide the following benefits:

- Provide a more organized way to manage the food cart.
- Provide better reliability and security to the users on transactions.
- Provide flexibility and convenience to the users.

The scope of this product is that it is available to anyone with v5.0.1 and above android device at any time in any place.

## 2. Overall Description

#### 2.1 Product Perspective

This product is a derivative of the giants in this genre namely, Food Panda and/or Zomato. We differ from such applications primarily in the way we make our application accessible to restaurants and food chain. In our application we maintain exclusivity in terms of merchant access ensuring that only the most trusted and reliable brands can use the service.

#### 2.2 Product Functions

- Show the Menu
- Take the Order
- Online Payment

#### 2.3 User Classes and Characteristics

- General User: This is the class of users who can simply see the menu and then make order of their will. This is the class which is most important to satisfy.
- Merchant: This class will be the class of merchants which can see what all are the orders and their payment methods too. This class is the least important to satisfy.
- Executive User: The class is especially for the Developers and Project Managers. They would definitely be provided with some more features and accessibility.

#### 2.4 Operating Environment

We are planning to release the application on android versions above v4.0 but we are also planning to release it on IOS as well as Windows depending on the kind of response we get after the application is released on android.

#### 2.5 Design and Implementation Constraints

The application acts as a connecting point between the merchant and the user. If for some reason the merchant decides to cancel a particular user order, we are powerless to do anything about it. The application is only android based so far and thus IOS and Windows users do not have access to the service we provide.

#### 2.6 User Documentation

We will be providing on-line help and tutorials on the application and also if any issue/error occurs then the customers can contact and solve their queries via email or contacting us on the given number.

#### 2.7 Assumptions and Dependencies

The following is a list of assumptions and dependencies that would affect the software requirements if they turned out to be false.

- Android version that we catered the application around is updated which can cause discrepancies within the application. To avoid it, regular updates have to be pushed out with each new android software update.
- Users don't have enough basic understanding to Android, IOS or windows phone and Internet.

• We assume that traffic would be well under the range of our server's capability and thus we assume that the system wouldn't crash.

# 3. External Interface Requirements

#### 3.1 User Interfaces

#### <u>Usability</u>

Interfaces are a critical class of components within the DML that will provide the means by which users interact with the system. All interfaces should provide easy access to help as well as clearly indicate the current state of the user's transaction when the user isn't idle.

The first screen for the user would be a login or sign up screen. User can create an account with our application and/or login to an already existing account. He is then redirected to choose the restaurant from which he wants to make an order which is followed by a screen showing the menu of that particular restaurant. User can choose the food items he wants to order and add them to the cart using the 'Add to Cart' Button. User can then review the cart, make changes and finally click 'Confirm' to move the payment portal where he can choose a payment method and be redirected to the bank's payment portal to complete the transaction after which he is redirected back to the application with an order confirmation form.

#### <u>Administrative</u>

Administrative interfaces will assist Administrators and Developers in maintaining database and controlling access to them. Because of the complexity of the data model, administrators will be able to edit multiple records simultaneously and create links between them.

#### 3.2 Hardware Interfaces

The application is supported on android devices with v5.0.1 and above. The communication protocol followed here is basically within the application itself. The merchant can login to the application and if any orders have been placed for his restaurant, he will get alerts for the same there.

#### 3.3 Software Interfaces

A database of orders placed would be maintained using SQL and/or other such DB query languages and as mentioned earlier we support android v 5.0.1 and above. Once the user places an order it gets stored in the database and a message is sent to the restaurant where the order is placed. Once the order is delivered the user entry is deleted from the database.

#### 3.4 Communications Interfaces

Communication function includes the electronic forms which will be filled out by the customers when he is checking out his order to put in his credentials. Email and Web Browser support is also provided for contacting if any issues occur. HTTP Protocol will be used for network server communication protocol.

# 4. System Features

#### 4.1 Add-To-Cart Feature

#### 4.1.1 Description and Priority

Users can add food items to the cart. They can add multiple food items directly and can avail various offers and coupons while placing an order. It is of High priority as it provides users a systematic way to see the selected items and without the cart, maintaining the data would be difficult.

#### 4.1.2 Stimulus/Response Sequences

The user picks the items that he wants to order from the restaurant menu and they are all added to cart as a response from the system. The user can check the items he picked so far by clicking on the add to cart icon on the screen which also shows the total amount for the entire order and a payment portal option.

#### 4.1.3 Functional Requirements

REQ-1:<Remove Item> User can drop a food item from the cart. The total amount will automatically readjust.

REQ-2:<Add Item>User is redirected to the menu page where he can add more items to the cart.

REQ-3:<Payment>User is redirected to the payment portal.

#### 4.2 Payment-Portal Feature

#### 4.1.1 Description and Priority

Payment Portal redirects the user to secured page where he/she can choose the payment option of his choosing. User can use from a variety of options such as Debit Card, Credit Card, Paytm, Net Banking and Cash on Delivery.

#### 4.1.2 Stimulus/Response Sequences

User chooses the payment option of his choice and then adds the credentials for the same. The page then redirects him to the bank's particular payment portal where he can complete the payment. Once the payment is complete he is redirected back to the application with an order confirmation.

#### 4.1.3 Functional Requirements

REQ-1:<Pay> User can use this option to make payment for the order and he/she is redirected to the bank's secure payment portal.

REQ-2: Go Back User can use this option to go back to the 'add to cart' menu.

## 5. Other Nonfunctional Requirements

#### **5.1 Performance Requirements**

The application requires at least 512 MB of RAM and an android version 4.0 or above. The minimum space required is 30 MB only for the application.

#### 5.2 Safety Requirements

The customers are ensured safety by backing up the data at the moment it is saved in the Database. Developers and Project Managers must take precautions before editing/deleting any saved data.

#### **5.3 Security Requirements**

A third party organization would certify and provide a more secure environment to the customers/client. HTTPS Network Server Connection will be used for security/privacy issues. The transactions made, would have 128-bit encryption level.

#### **5.4 Software Quality Attributes**

The customers would be provided with a flexible, portable, reliable and a robust application. It will also be user-friendly and an easy to use application.

#### 5.5 Business Rules

Developer: Developer has overall control over the application. He can modify the roles of other individuals as well.

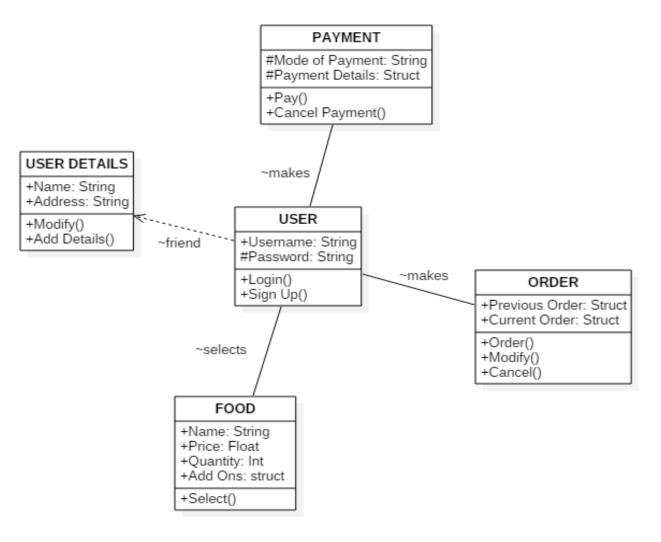
User: User is a client and can only access the parts which the developer gives him access to.

Merchant: Merchant is the seller and can only access the parts which the developer gives him access to.

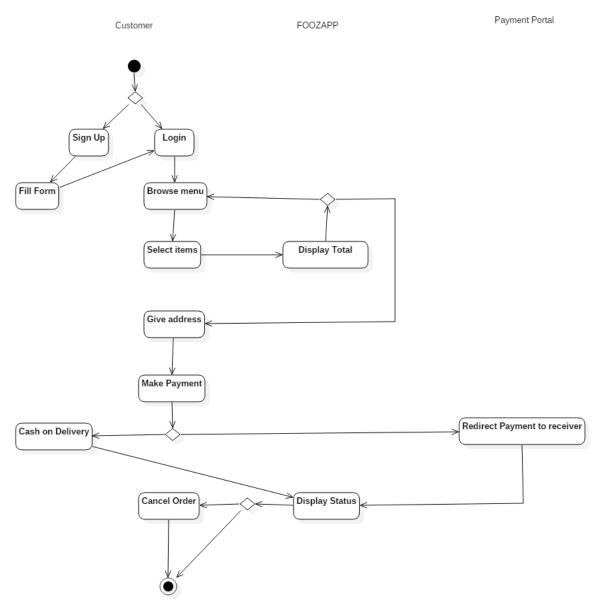
# **Appendix A: Glossary**

No such necessary terms required to interpret the SRS.

# **Appendix B: Analysis Models:**

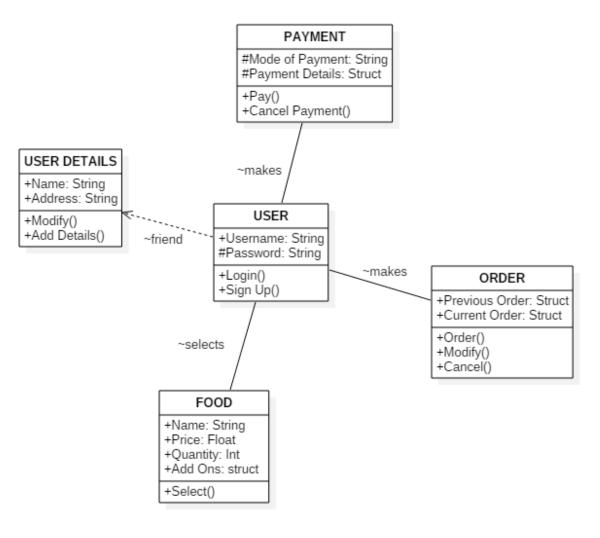


#### **UML DIAGRAMS**

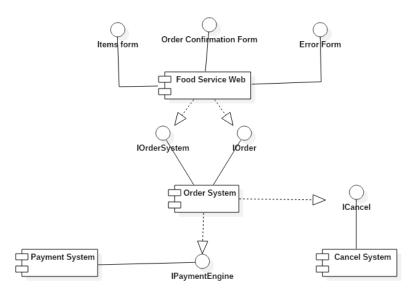


#### **ACTIVITY DIAGRAM**

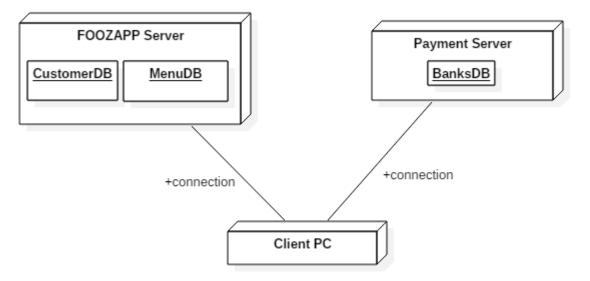
#### **CLASS DIAGRAM**



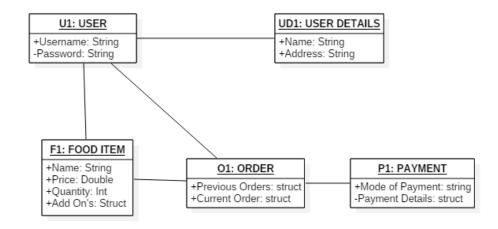
#### **COMPONENT DIAGRAM**



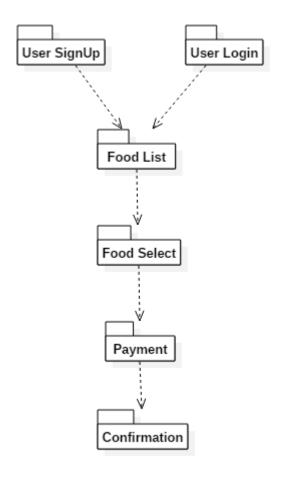
#### **DEPLOYMENT DIAGRAM**



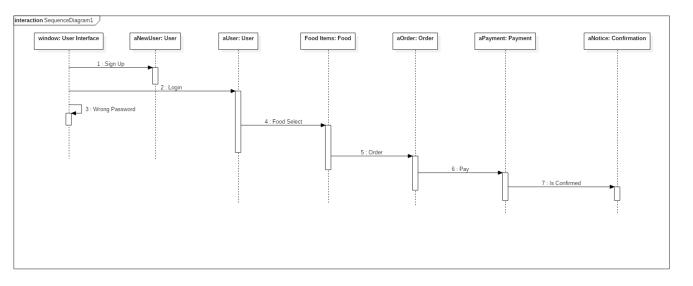
#### **OBJECT DIAGRAM**



#### **PACKAGE DIAGRAM**

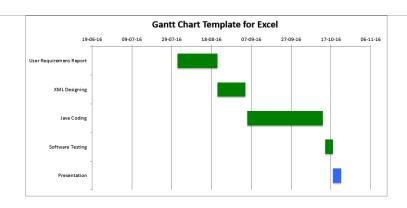


#### **SEQUENCE DIAGRAM**



#### **GANTT CHART**

Task Name	Start	End	Duration (days)
User			
Requiremens	01-08-16	20-08-16	20
XML Designing	21-08-16	04-09-16	14
Java Coding	05-09-16	13-10-16	38
Software Testing	14-10-16	18-10-16	4
Presentation	18-10-16	22-10-16	4



# A Software Design Specification Template For FOODZAPP

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#### 6. Introduction

The following is a basic template for the specification of software designs. Wherever possible, guidelines (instead of prescribing requirements) for the contents of various sections and subsections of the document have been provided. To obtain more detailed subsections of a particular section, choose one or more of the subsection topics from the list of guidelines provided.

In devising this template, information from many sources have been gleamed, including various texts on Software Engineering (Pressman and Somerville), Android development, various SEI reports and documentation requirements.

This software design specification is designed to meet the following criteria:

- It adequately serves as training material for new project members, imparting to them enough information and understanding about the project implementation, so that they are able to understand what is being said in design meetings.
- It serves as "objective evidence" that the designers and/or implementers are following through on their commitment to implement the functionality described in the requirements specification.

• It needs to be as detailed as possible, while at the same time not imposing too much of a burden on the designers and/or implementers that it becomes overly difficult to create or maintain.

NOTE: The sections in this document are concerned solely with the design of the software.

#### **6.1 Document Outline**

- Introduction
- System Overview
- Design Considerations
  - Assumptions and Dependencies
  - General Constraints
  - Goals and Guidelines
- Detailed System Design
  - o module-1 Login module
  - o module-2 Food-Menu module
  - o module-3 Add-to-Cart module
  - o module-4 Payment module
- Glossary
- Bibliography

#### **6.2 Document Description**

Here is the description of the contents (by section and subsection) of the proposed template for software design specifications:

#### 6.2.1 Introduction

This document is a reference for developers and testers to give them an idea about the development and design procedures.

The purpose of this document is to provide a detailed description about the application FOODZAPP. This document is intended for different types of readers such as developers, project managers, and testers as well as the project coordinators providing architectural and system designing.

The document will provide the document outline regarding the FOODZAPP 1.0. The SRS of FOODZAPP is also referenced to this document. There are no such pre-requisite for this document.

#### **6.2.2** System Overview

There will be an interactive graphical user interface through which the user can choose the restaurant and then select the food items. The user then uses the ADD-TO-CART feature to add the selected food items in the cart. The order placed is shown only once in the process. Then the user is redirected to the Payment Portal.

# 7. Design Considerations

This section describes many of the issues which need to be addressed or resolved before attempting to devise a complete design solution.

#### 7.1 Assumptions and Dependencies

The following assumptions and Dependencies are taken regarding the application:

- Android Studio is recommended for the development procedure.
- Android Version 4.0 or above is required on the user's end.
- The design of login page and other pages may differ in design.
- The application would be able to handle the traffic.
- Space required to store the data in database is enough.
- The user should have an internet access via Wi-Fi or Data Plan.

#### 7.2 General Constraints

- Minimum 30MB space on drive
- 512MB ram
- Android version 4.0 or later
- Internet Connection via Wi-Fi or Data Plan
- Updated version of the app
- The application needs to be certified by a third party security validation organization.
- App is not supported on Windows or IOS devices.

#### 7.3 Goals and Guidelines

The KISS principle ("Keep it simple stupid!") is followed throughout the design.
 This is required so that the development is more efficient and streamlined.

 Balance between performance and quality is maintained to make sure that the processing is easy and the interface is visually aesthetic.

#### 7.4 Development Methods

The software interface of the application and all its features have been designed in JAVA and the backend database is being designed using MySQL query language. XML is used for developing the User Interface (UI) of the application.

# 8. Architectural Strategies

The model followed in the development of the software is Incremental. The incremental model is a method of software development where the product is designed, implemented and tested incrementally (a little more is added each time) until the product is finished. This model was chosen so that all the packages can be built separately by the team members and then combined as single software.

Java and XML will be used to develop the android program. The tool used is android studio. SQL will be used to create and maintain the database which will be accessible by the application.

Existing modules in android studio are used. Some of them are – OS, view, widget and many more.

This is just a prototype application. In future the application can be modified according to the customer restaurant who buys the application. The database will then be taken from the restaurant server (if existent). The customer restaurant can also demand some additional modules which will be designed then accordingly.

This application will require internet connection to work. The changes in database will be in real time. Multiple servers will be established to remove any lag in the client server communication.

The user should have at least 512mb ram and android 4.0 or later to run the application.

# 9. System Architecture

There are 3 modules – Login/Signup Module, Food Select Module and My Cart Module.

The signup option opens a link in the browser and where all the necessary fields should be filled to signup.

The functions/methods available to the user include Add Details, Modify User Details, Login, Signup, Select Food, Order, Modify Order, Cancel Order, Pay, Cancel Payment, etc.

#### 10. Policies and Tactics

The project revolves around the use of Android Studio. Compiling of the Java Code was done using Eclipse and Android Studio. The database was designed using MySql and Sql Plus.

No specific coding conventions were followed however; the lines of code were minimalized to the maximum extent. The use of Brute Force Algorithms was also minimalized wherever possible to decrease the lines of code.

A prototype of the android application will be created. This would be made available to our clients and end users for their inputs on user interface, time managements and usability. The users get a peek of our app after completion of every module and their feedbacks are well received.

A beta version of the app would be made available to our clients. The app would be launched and tested by the end users. However, before that a detailed testing of the same would be carried out in our environment.

Once a restaurant wishes for our app to be customized for them, the orders would be directed directly to them through the app. However, weekly maintenance of the application would be carried out by us. New features as well as improvements will also be provided.

# 11. Detailed System Design

#### 11.1 Classification

The whole project was divided into the following modules – Login/Signup Module, Food Select Module and My Cart Module.

The Modules were broken down into sub modules which involves –

User requirements report and its analysis, XML Designing, Java Coding, Alpha and Beta Testing as well as Final Presentation.

The functions/methods available to the user include Add Details, Modify User Details, Login, Signup, Select Food, Order, Modify Order, Cancel Order, Pay, Cancel Payment, etc.

#### 11.2 Definition and Responsibilities

The Login Module is the most basic module. Through it, the user can make an account which will be registered in our database. The user's choice and history of orders will be stored through the account he logs in through.

Food Select module would contain a huge list of food items of that particular restaurant for which the app is modified and designed. It would enable the user to choose the food items he desires from the list. The user can select as many items de deems necessary and add it to "My Cart".

All the food items that the user wishes to order, does so by adding it to My Cart. Hence, My Cart would include the users order. The user can modify the order by changing the quantity of items, adding another food item or dropping a selected item from his order list. This module would also include the history of previous orders made by the user for his reference.

After the user finalizes his choice and places an order, he is asked for Payment options. The user can pay through inline banking or has the option for paying through Cash on Delivery Method. After the payment is completed the user gets an order confirmation mail or text message as the restaurant's acknowledgement.

#### 11.3 Constraints

Through the Login Module, the user logs into his account. However, the user can login to only one account at a time, i.e., the orders can be placed through a single account per phone. The password length should be minimum 8 characters.

The My Cart Module can display only the history of 3 previous orders placed using the application, i.e., the previous orders placed would fade away. While placing an order there might be items that might not get selected, that would happen only if the restaurant considers that item as unavailable or out of season. During season or it's availability, the item can then be selected.

The user can select a food item as well as its amount in the Food Select Module, however the quantity has a limit. The limit is decided by the restaurant and a quantity limit is added to that particular item.

Also, humongous party orders cannot be placed using the application, the reason being a lot of time to prepare the order as well as problems in delivering it. A huge order will be decided by the total quantity of food items selected or through a price limit.

Some other constraints for the android application is -

- Minimum 30MB space on drive
- 512MB ram
- Android version 4.0 or later

- Internet Communication via Wi-Fi or Data Plan
- Updated version of the app
- The application needs to be certified by a third party security validation organization.
- App is not supported on Windows or IOS devices.

#### 11.4 Composition

The Modules were broken down into sub modules which involves –

User requirements report and its analysis:

Basic user requirements were gathered through thorough research on previous such mobile applications and considering factors like user interface, ease and flexibility of the application. Each of these requirements were deeply analyzed and a report entailing every detail was prepared.

#### XML Designing:

The layout of the application as well as its contents were designed using XML in Android Studio. The design and interface was given flexibility and updation and other modifications were done easily using XML.

#### Java Coding:

On obtaining a well-developed design and structure of the application numerous links and responses were done using JAVA. The XML Designing and Java Coding were done parallel to each other.

#### Testing:

On completion of each module, testing of the application took place. The feedbacks received were considered and modifications were done. This completes that particular module. In such a way one module after another was tested and completed. On the completion of the application as a whole, alpha and beta testing was done. The changes and modifications, if any, were done to the whole project while fixing all the bugs and issues. The mobile application was then deployed.

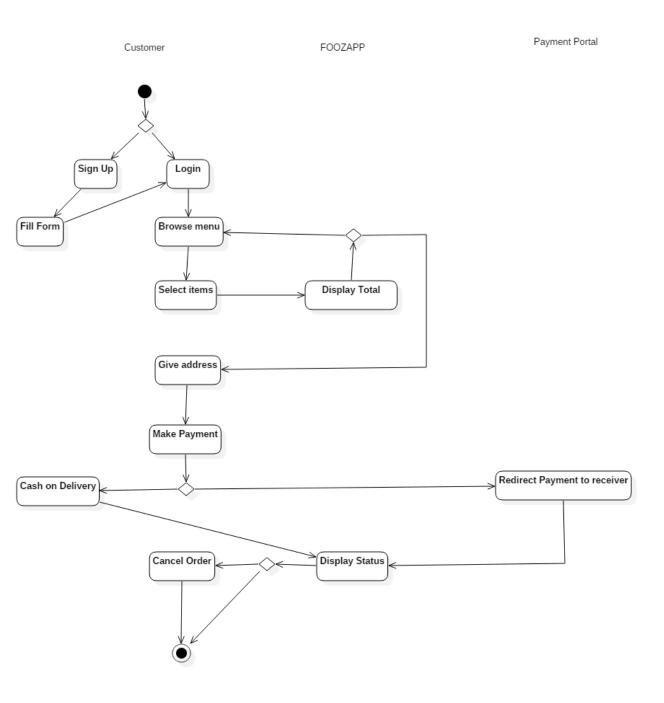
#### 11.5 Uses/Interactions

The user logs in through the Log in Module and the id and password is checked with the database. The user is notified in case of a wrong password or id.

A huge database consisting of food items of a particular restaurant's menu is created and the user selects food from it. When the user orders the food he wants, the order is placed through the account he logs into in the Login Module. The history of such orders is present in the My Cart menu.

After Payment for the order, the user receives a notification as a sign of acknowledgement on the account he logs into.

# 11.6 Detailed Subsystem Design



# 12. Glossary

No such terms or abbreviations have been made.

# 13. Bibliography

No such references are made.

# **FOODZAPP**

Test Plan

# Version 1.0

Dated: 24<sup>th</sup> October, 2016

Authors

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# **Revision History**

Date	Version	Description	Author
24 <sup>th</sup> October, 2016	1.0	First version	Test Team

#### 14. BACKGROUND

Foodzapp is an online food ordering android based application. It is a third party application which can be integrated into any restaurant system. This will allow that restaurant or food chain to take orders through this app. There will be an interactive graphical user interface through which the user can select anything from the restaurant menu and can place order by giving his/her name, phone number and address. The user has an option to pay the bill online through this app or at the time of delivery.

#### 15. INTRODUCTION

This test plan is a basic guideline for future testing in the FOODZAPP Application. It mainly focuses on two problems: what we will test and how we will test.

#### 16. TEST ITEMS

- 16.1 GUI test
- 16.2 Basic function test
- 16.3 Database test
- 16.4 Network test

#### 17. FEATURES TO BE TESTED

#### **17.1 GUI test**

System should provide a GUI for restaurant employees to interface with the backend FOODZAPP database

#### 17.2 Database test

- 17.2.1 Basic operations: add/update/delete/query records in each table
- 17.2.2 Advanced operations: start/stop, backup, recover the database

#### 17.3 Basic function test

- 17.3.1 Add to cart
- 17.3.2 Update/delete cart items
- 17.3.3 Search for a particular food item
- 17.3.4 View item price
- 17.3.5 View item detail
- 17.3.6 Payment portal

#### 17.4 Network test

Check connectivity of the system in the LAN environment

#### 18. FEATURES NOT TO BE TESTED

#### 18.1 Maximum simultaneous online-users is no more than 50

Reason: This is only an assumption condition in requirement specification

#### 18.2 Licensing requirement

Reason: Since they are free software, they need not be tested.

#### 19. APPROACH

- 19.1.1 Unit testing (class testing)
- 19.1.2 Integrity testing (thread-based testing)
- **19.1.3** Validation testing

#### 20. ITEM PASS CRITERIA

#### 20.1 GUI test

Pass criteria: Restaurant employees could use this GUI to interface with the backend FOODZAPP database without any difficulties

#### 20.2 Database test

Pass criteria: Results of all basic and advanced operations are normal (refer to section 4)

#### 20.3 Basic function test

Add to cart

Pass criteria:

- User can choose and add a particular item to his cart using this function.
- The retrieved item information should appear in the cart form.

#### 20.3.1 Update/delete cart items

Pass criteria:

- 20.3.2 The record would be selected using the item ID
- 20.3.3 Updates can be made on the cart form or the menu form.
- 20.3.4 The item can be deleted from the cart in the cart form or the menu form.
- If an item is deleted, it will not appear in further totaling and cart search queries.

#### 20.3.5 Search for a particular food item

Pass criteria:

- Each food item shall have following attributes: Name, Item ID.
- The retrieved food item information should contain these attributes.

#### 20.3.6 View item price

Pass criteria:

- The item item can be retrieved using the item ID
- The food item can be deleted only if the user has not already paid for it.
- If items were deleted, they would not appear in further cart search queries.
- Item price should be equal to the value associated with the Item ID times the no of those items.

#### 20.3.7 View item detail

Pass criteria:

- The product shall let the restaurant employee/customer query food item' detail information by their item ID.
- The search results would produce a list of items, which match the search parameters with following Details: Item ID, Name.
- The display would also provide the stock which is available for further orders.
- The search display will be restricted to 20 results per page and there would be means to navigate from sets of search results.
- The user can perform multiple searches before finally selecting a set of items for checkout. These should be stored across searches.

#### 20.3.8 Payment portal

Pass criteria:

- Customers can check out the orders using a specific order ID.
- The checkout is initiated using the make payment button on the cart form.
- The User ID who is making the transaction would be entered
- The checkout date and time would automatically reflect the current system date.
- An order once made cannot be cancelled.
- The maximum order a user can make is up to Rs.8000. The system should not allow checkout of orders beyond this limit.

#### 20.4 Network test

Pass criteria: Results of operations (ping, ftp and ODBC connectivity check) are normal

#### 21. TEST DELIVERABLES

#### 21.1 Test plan

#### 21.2 Test report

#### 22. ENVIRONMENTAL NEEDS

- Hardware: Minimum 250 MB RAM and 25 MB Disk Space required.
- Software: Android Version 4.0 or above.

#### 23. RESPONSIBILITIES

- Mr. Ritwik Gupta and Mr. Suryansh Bhardwaj are involved in test plan document
- All members of testing group are involved in testing process
- Mr. Ritwik Kala and Mr. Yashasvi Asthana are involved in test report document

#### 24. STAFFING

- Mr. Yashasvi Asthana, leader of testing group
- Mr. Ritwik Gupta, member of testing group
- Mr. Ritwik Kala, member of testing group
- Mr. Suryansh Bhardwaj, member of testing group

#### 25. SCHEDULE

- Test plan is due on October 25
- Test report is due on October 25

#### 26. RESOURCES

- Developers of the system are involved in testing process (debugging, unit testing, even integrity testing)
- Users of the system are involved in testing process (integrity testing)

#### 27. RISKS CONTINGENCIES

Should prototype of the system not be due before October 12, test report could not be guaranteed to be available on October 25

#### 28. APPROVALS

No such approvals.

#### **TEST-CASE**

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8 8.1 8.1.1 Verify FORM has 5 fields Form has 5 fields Form has 5 fields Form has 5 fields High High Completed  8.2 8.2.1 Verify 1st field is Name Form has a Name field Form has a Name field High High Completed  8.3 8.3.1 Verify 2nd field is Phone number field Form has a Phone number field High High Completed  8.4 8.4.1 Verify 3rd field is Password Form has a Password field Form has a Password field High High Completed  8.5 8.5.1 Verify 4th field is Confirm Password Password Form has a Confirm Password field Password field Password field Password field High High Completed  8.6 8.6.1 Verify 5th field is Submit Button Form has a submit button Form has a submit button High High Completed Completed Password field Password field Password field Password field High High Completed Completed Completed Password Form has a submit button High High Completed Complete		-								
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8.3 8.3.1 Verify 2nd field is Phone number field Form has a Phone number field High Completed  8.4 8.4.1 Verify 3rd field is Password Form has a Password field Form has a Password field High High Completed  8.5 8.5.1 Verify 4th field is Confirm Password Password field Password field Password field Password field High Completed  8.6 8.6.1 Verify 5th field is Submit Button Form has a submit button Form has a submit button High High Completed  9 9.1 9.1.1 Verify Name has atmost 30 Other Assumption Completed Characters Charact	8	8.1	8.1.1	verify FUHIM has 5 helds	Form has 5 helds	r-orm has 5 Helds	High	High	Completed	
8.3 8.3.1 Verify 2nd field is Phone number field Form has a Phone number field High Completed  8.4 8.4.1 Verify 3rd field is Password Form has a Password field Form has a Password field High High Completed  8.5 8.5.1 Verify 4th field is Confirm Password Password field Password field Password field Password field High Completed  8.6 8.6.1 Verify 5th field is Submit Button Form has a submit button Form has a submit button High High Completed  9 9.1 9.1.1 Verify Name has atmost 30 Other Assumption Completed Characters Charact		0.2	0.24	Verify 1et Gold is Nome	Form has a Name Gold	Form has a Name Gold	List	Lint	Complete	
8.4 8.4.1 Verify 3rd field is Phone number field field High High Completed  8.4 8.4.1 Verify 3rd field is Password Form has a Password field Form has a Password field High High Completed  8.5 8.5.1 Verify 4th field is Confirm Password Password field Password field High High Completed  8.6 8.6.1 Verify 5th field is Submit Button Form has a submit button Form has a submit button High High Completed  9 9.1 9.11 Verify Name has atmost 30 Name has atmost 30 Oharacters Oharacters Oharacters Completed		8.2	8.2.1	verify iscribio is Name	r offit has a Mame field	r onni rias a Name Neid	High	High	Completed	
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8.5 8.5.1 Verify 4th field is Confirm Password Password field Password field Password field High Completed  8.6 8.6.1 Verify 5th field is Submit Button Form has a submit button Form has a submit button High High Completed  9 9.1 9.1.1 Verify Name has atmost 30 Name has atmost 30 Oharacters Oharac				realing and held is Frione number	ris iu	IIV IV	riigh	. nigh	Completed	
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8.6 8.6.1 Verify 4th field is Confirm Password Password field Password field High High Completed  8.6 8.6.1 Verify 5th field is Submit Button Form has a submit button Form has a submit button High Completed  9 9.1 9.1.1 Verify Name has atmost 30 Characters Charact		0.4	0.4.1	verny sturietu is massword	i omirias a r assword field	i omi nas a r assword neid	migr	nign	Completed	
8.6 8.6.1 Verify 4th field is Confirm Password Password field Password field High High Completed  8.6 8.6.1 Verify 5th field is Submit Button Form has a submit button Form has a submit button High Completed  9 9.1 9.1.1 Verify Name has atmost 30 Characters Charact					Form has a Confirm	Form has a Confirm				
8.6 8.6.1 Verify 5th field is Submit Button Form has a submit button Form has a submit button High Completed  9 9.1 9.1.1 Verify Name has atmost 30 Name has atmost 30 Name has atmost 30 Characters C			8.5.1	Verify 4th field is Confirm Password			High	High	Completed	
9 9.1 9.1.1 Verify Name has atmost 30 Name has atmost 30 Name has atmost 30 Characters Characters Characters Low Medium Completed		8.5		. sang ranners is committee assword	. Saamord neld	. approvation	riigh	. ragn	Completed	-
9 9.1 9.1.1 Verify Name has atmost 30 Name has atmost 30 Name has atmost 30 Characters Characters Characters Low Medium Completed		8.5								
9 9.1 9.1.1 characters characters characters characters Low Medium Completed			8.6.1	Verify 5th field is Submit Button	Form has a submit button	Form has a submit button	Hick	High	Completed	
9 9.1 9.1.1 characters characters characters characters Low Medium Completed			8.6.1	Verify 5th field is Submit Button	Form has a submit button	Form has a submit button	High	High	Completed	
		8.6					High	High	Completed	
	9	8.6		Verify Name has atmost 30	Name has atmost 30	Name has atmost 30				

			Verify Name has atmost 30	Name has atmost 30	Name has atmost 30			
9	9.1	9.1.1	characters	characters	characters	Low	Medium	Completed
			Verify Name "Moja" is allowed	Name Moja is allowed	Name Moia is allowed	Low		Completed
			renignanie irioja is allowed	Idame i loja is allowed	ruanne i vioja is allowed	LOW	1 · lealain	Completed
	9.2	9.2.1	Verify Name doesnot have any	Name doesn't have any	Name doesn't have any			
			numbers	numbers	numbers Name YASH123 is incorrect	Low	Medium	Completed
			Verify Name YASH123 is incorrect	Name YASH123 is incorrect and is not accepted	and is not accepted	Low	Medium	Completed
			Verify Name Suryansh is correct	Name Suryansh is accepted	Name Suryansh is accepted	Low		Completed
			Transferance designation desired	Training and an array in a	Trainit Garyanania Garapita		1-10-01-011	
10	10.1	10.1.1	Verify Phone number has 10 digits	Phone number has 10 digits	Phone number has 10 digits	Low	Medium	Completed
			Verify username 98732065111 is	Username is incorrect:Must	Username is incorrect:Must			
			incorrect	have only 10 digits	have only 10 digits	Low	Medium	Completed
			Verify username 987320651 is incorrect	Username is incorrect,must have 10 digits	Username is incorrect,must have 10 digits	Low	B. d. a. disser-	Completed
			Verify username 9873206511 is	Username is correct	Username is correct	Low		Completed
			verify disernance 367320601115	Osemanie is conect	OSEMAINE IS CORRECT	LOW	iviedidili	Completed
	10.2	10.2.1	Verify Phone number has only digits	Phone number has only digits	Phone number has only digits	Low	Medium	Completed
			Verify Phone number 98997080A2 is incorrect	Phone number is not allowed	Phone number is not allowed	Low	Medium	Completed
			Verify number 9899708081 is correct	Number is correct and accepted	Number is correct and accepted	Low		Completed
				·	·			
11	11.1	11.1.1	Verify password has any characters	Password can have any character	Password can have any character	Low	Medium	Completed
			Verify Password "Suryan12" is correct	Password is correct	Password is correct	Low		Completed
			Verify Password "Sur@123"" is	Password is correct	Password is correct	Low	Medium	Completed
		11.2.1	Verify Password must have minimum 6 length	Password has minimum 6 length	Password has minimum 6 length	Low	Medium	Completed
			Verify Password "sur12" is incorrect	Password sur12 is incorrect	Password sur12 is incorrect	Low	Medium	Completed
			Verify Password "surya12" is correct	Password suryal2 is correct	Password suryal2 is correct	Low	Medium	Completed
			Verify Password "Suryansh" is	Password Surgansh is	Password Surgansh is	Low	Medium	Completed

12	12.1	12.1.1	should be same as the above	Passwords match and	Passwords match and Password gets confirmed			
			password	Password gets confirmed	r assword gets commined	High	High	Completed
13	13.1	13.1.1			Submit button works			
13	10.1	10.1.1	Submit button works	Submit button works properly	properly	High	High	Completed
		13.1.2	Next Form gets opened	MENU Form get's opened	MENU Form get's opened	High	High	Completed
3.FORGO L								
PASSVO 14	14.1	14.1.1	Verify FORM has 4 fields	Form has 4 fields	Form has 4 fields	High	High	Completed
	14.2	14.2.1	Verify 1st field is Phone number	field	Form has a Phone number	High	High	Completed
	14.3	14.3.1	Verify 2nd field is "Send Password"	Form has a Send Password	Form has a Send Password			
	14.3	14.3.1	button	button	button	High	High	Completed
	14.4	14.4.1	Verify 3rd field is Key	Form has a field named Key	Form has a field named Key	High	High	Completed
	14.5	14.5.1	Verify 4th field is "VERIFY" button	Form has a VERIFY button	Form has a VERIFY button	High	High	Completed
15	15.1	15.1.1	Verify "Send Password" button works	"Send Password" button works properly	"Send Password" button works properly	High	High	Completed
	15.2	15.2.1	Verify the button sends New Password at the registered phone	New Password is being sent to the Registered number	New Password is being sent to the Registered number	High	High	Completed
16	16.1	16.1.1	Verify Key has any characters	Key can have any character	Key can have any character	Low	Medium	Completed
.5	10.1	10.1.1	Verify key "RITWI34" is correct	Key RITWI34 is accepted	Key RITWI34 is accepted	Low		Completed
			Verify key "YASH@12" is correct	Key YASH@12 is correct	Key YASH@12 is correct	Low		Completed
	16.2	16.2.1	Key can have any number of characters	Key can have any number of characters	Key can have any number of characters	Low		Completed
			Verify key "qwertyuiop" is correct	Key is correct	Key is correct	Low		Completed
			Verify key 1234asd@#\$ is correct	Key is correct	Key is correct	Low	Medium	Completed

17	17.1	17.1.1	Verify if "VERIFY" Button works	VERIFY Butto properly	n works	VERIFY Button work properly	s	High	High	Completed	
		17.1.2	Verify if Key is matched with Password	Key get's mato password	hed with	Key get's matched wi password	th	High	High	Completed	
		17.1.3	Verify, error is created when key doesn't matches with password	Error is created situation	d in that	Error is created in tha situation	t	High	High	Completed	
4.MENU PAGE											
18	18.1	18.1.1	Verify if Form has 2 fields	Form has 2 fie	lds	Form has 2 fields		High	High	Completed	
	18.2	18.2.1	Verify the 1st field is List of all the food items with corressponding	Form has a Lis	st	Form has a List		High	High	Completed	
	18.3	18.3.1	Verify the 2nd field is TOTAL	Form has a fie TOTAL	ld named	Form has a field nam TOTAL	ed	High	High	Completed	
19	19.1	19.1.1	Verify all the available checkboxes clickable	s are Available chec	kboxes are	Available checkboxe clickable	s are	High	High	Completed	
	19.2	19.2.1	Verify that all the drop down "Quantity" menu have 10 values	All the drop do menu have 10 t		All the drop down Qu menu have 10 values	antity	High	High	Completed	
20	20.1	20.1.1	as per the number of checkboxes selected and their corressponding quantities	:	ates	Total field updates		High	High	Completed	
		20.1.2	Verify that the TOTAL field is clickable and links to the CART	Total Field link Page	s to the CART	Total Field links to th CART Page	e	High	High	Completed	
5.CART											
21	21.1	21.1.1	Verify if Form has 4 fields	Form has 4 fie	lds	Form has 4 fields		High	High	Completed	
	21.2	21.2.1	Verify the 1st field is the List of foo items selected in the MENU Page			List has all the food it selected in the MENU		High	High	Completed	
	21.3	21.3.1	Verify the 2nd field is TOTAL and is same as the TOTAL in MENU Page	Form has a TOTAL f	ield Form	has a TOTAL field	High	High	Comple	ted	
	21.4	21.4.1	Verify the 3rd field is an Address box	Form has an Address	s box Form	has an Address box	High	High	Comple	ted	
	21.5	21.5.1	Verify the 4th field is MAKE PAYMENT button	Form has a MAKE PAYMENT Button		has a MAKE MENT Button	High	High	Comple	ted	
22	22.1	22.1.1	Verify the Address box can take input upto 255 characters	Address box's chara- is 255	cter limit Addre	ess box's character limit j	High	High	Comple	ted	
		23.1.1	Verify that the MAKE PAYMENT	MAKE PAYMENT E		E PAYMENT Button	High	High	Comple	ted	
23	23.1	20.111	Button works	works properly	works	s properly	mign	riigii			

# **FOODZAPP Testing**

#### Group Members:

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FOODzapp is a third party android application developed using Android Studio.

Android Studio can include some testing simulators as an API. The Android Testing Support Library provides an extensive framework for testing Android apps. This library provides a set of APIs that allow you to quickly build and run test code for your apps, including JUnit 4 and functional user interface (UI) tests. You can run tests created using these APIs from the Android Studio IDE or from the command line.

#### Such an API is UI Automator:

The UI Automator testing framework provides a set of APIs to build UI tests that perform interactions on user apps and system apps. The UI Automator APIs allows you to perform operations such as opening the Settings menu or the app launcher in a test device. The UI Automator testing framework is well-suited for writing black box-style automated tests, where the test code does not rely on internal implementation details of the target app.

The key features of the UI Automator testing framework include:

- A viewer to inspect layout hierarchy.
- An API to retrieve state information and perform operations on the target device.
- APIs that support cross-app UI testing.

This tool requires Android 4.3 (API level 18) or higher.

#### **CODING:**

#### XML:

```
activity main.xml:
```

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   xmlns:tools="http://schemas.android.com/tools"
    android: layout width="match parent"
    android:layout height="match parent"
    android:paddingBottom="@dimen/activity vertical margin"
    android:paddingLeft="@dimen/activity horizontal margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity vertical margin"
    tools:context="com.foodzapp.yash.foodzapp.MainActivity"
    android:backgroundTint="#b0527dd4"
    android:background="#b25f61d1">
    <EditText
        android:layout width="wrap content"
        android: layout_height="wrap_content"
        android:hint="Phone Number"
        android:maxLength="10"
        android:id="@+id/phone"
        android:layout marginTop="136dp"
        android:layout alignParentTop="true"
        android:layout centerHorizontal="true"
        android:inputType="phone"
        android:textColor="#c73737" />
```

```
<EditText
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:hint="Password"
    android:id="@+id/password"
    android:inputType="textPassword"
    android:textStyle="normal"
    android:layout below="@+id/phone"
    android:layout alignLeft="@+id/phone"
    android:layout alignStart="@+id/phone"
    android:textColor="#c73737"
    android:selectAllOnFocus="true"
    android:focusable="true" />
<TextView
    android:layout width="120dp"
    android:layout height="60dp"
    android:textAlignment="center"
    android: textAppearance="?android:attr/textAppearanceLarge"
    android:text="LOGIN"
    android:id="@+id/LOGX"
    android:textStyle="bold"
    android:textSize="30dp"
    android:layout alignParentTop="true"
    android:layout_alignParentLeft="true"
    android:layout_alignParentStart="true"
    android:textColor="@color/light font"
    android:shadowColor="@color/text shadow"
    android:shadowDx="1"
    android:shadowDy="1"
    android:shadowRadius="2" />
<Button
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Login"
    android:id="@+id/login button"
    android:layout marginTop="43dp"
    android:layout below="@+id/password"
    android:layout centerHorizontal="true"
    android:clickable="true" />
<TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Forgot Password?"
    android:id="@+id/forgotpass"
    android:clickable="true"
    android:textSize="17dp"
    android:textStyle="bold"
    android:layout marginBottom="24dp"
    android:layout_alignParentBottom="true"
    android:layout_toRightOf="@+id/password"
    android:layout toEndOf="@+id/password" />
<TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="SignUp"
    android:id="@+id/signup"
    android:clickable="true"
    android:textSize="17dp"
    android:textStyle="bold"
```

```
android:layout marginBottom="27dp"
         android:layout above="@+id/forgotpass"
         android:layout_toRightOf="@+id/password"
         android:layout toEndOf="@+id/password" />
</RelativeLayout>
activity_forgotpass.xml:
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:paddingBottom="@dimen/activity vertical margin"
  android:paddingLeft="@dimen/activity_horizontal_margin"
  android:paddingRight="@dimen/activity_horizontal_margin"
  android:paddingTop="@dimen/activity_vertical_margin"
  tools:context="com.foodzapp.yash.foodzapp.forgotpass">
  <EditText
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:inputType="phone"
    android:ems="10"
    android:id="@+id/phn1"
    android:layout alignParentTop="true"
    android:layout centerHorizontal="true"
    android:layout_marginTop="103dp"
    android:textAlignment="center"
    android:hint="Phone Number" />
  <Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="GO"
    android:id="@+id/gobtn"
    android:layout below="@+id/phn1"
    android:layout_centerHorizontal="true"
```

```
android:layout_marginTop="39dp" />
  <Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Verify"
    android:id="@+id/verifybtn"
    android:layout_alignParentBottom="true"
    android:layout_alignLeft="@+id/gobtn"
    android:layout_alignStart="@+id/gobtn" />
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textAppearance="?android:attr/textAppearanceLarge"
    android:id="@+id/textView1"
    android:layout below="@+id/gobtn"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="37dp" />
  <EditText
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:inputType="number"
    android:ems="10"
    android:id="@+id/key"
    android:textAlignment="center"
    android:hint="Enter the key"
    android:layout_above="@+id/verifybtn"
    android:layout_centerHorizontal="true"
    android:layout_marginBottom="41dp" />
</RelativeLayout>
activity_register.xml:
<?xml version="1.0" encoding="utf-8"?>
< Relative Layout xmlns: android = "http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
```

```
android:layout height="match parent"
android:paddingBottom="@dimen/activity_vertical_margin"
android:paddingLeft="@dimen/activity_horizontal_margin"
android:paddingRight="@dimen/activity_horizontal_margin"
android:paddingTop="@dimen/activity_vertical_margin"
tools:context=".register">
<TextView
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:textAppearance="?android:attr/textAppearanceMedium"
  android:text="Fill in the form for Registeration"
  android:id="@+id/textView4"
  android:layout_alignParentTop="true"
  android:layout_alignParentLeft="true"
  android:layout_alignParentStart="true"
  android:textSize="25dp" />
<Button
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="Register"
  android:id="@+id/reg"
  android:onClick="ret"
  android:layout alignParentBottom="true"
  android:layout centerHorizontal="true"
  android:layout marginBottom="57dp"
  android:textSize="25dp" />
<EditText
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:inputType="textPassword"
  android:ems="10"
  android:id="@+id/pswd"
  android:hint="Password"
  android:layout_below="@+id/textView4"
  android:layout_alignParentLeft="true"
  android:layout_alignParentStart="true"
  android:layout_marginTop="138dp" />
<EditText
  android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
    android:inputType="textEmailAddress"
    android:ems="10"
    android:id="@+id/email"
    android:hint="E-mail Address"
    android:layout_below="@+id/editText"
    android:layout_alignParentLeft="true"
    android:layout_alignParentStart="true" />
  <EditText
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:inputType="textPassword"
    android:ems="10"
    android:id="@+id/editText"
    android:hint="Confirm Password"
    android:layout below="@+id/pswd"
    android:layout_alignRight="@+id/pswd"
    android:layout_alignEnd="@+id/pswd" />
  <EditText
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:inputType="phone"
    android:ems="10"
    android:id="@+id/editText2"
    android:hint="Phone"
    android:layout_marginBottom="48dp"
    android:layout_alignBottom="@+id/pswd"
    android:layout_alignRight="@+id/pswd"
    android:layout_alignEnd="@+id/pswd" />
</RelativeLayout>
row.xml:
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout height="match parent"
```

```
android:orientation="horizontal"
< Image View
  android:id="@+id/img"
  android:layout_width="150dp"
  android:layout_height="100dp"
  android:layout_alignParentTop="true"
  android:layout_alignParentLeft="true"
  android:layout_alignParentStart="true" />
<TextView
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:textAppearance="?android:attr/textAppearanceLarge"
  android:text="item name"
  android:id="@+id/item"
  android:layout_below="@+id/img"
  android:layout_alignParentLeft="true"
  android:layout_alignParentStart="true" />
<TextView
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:textAppearance="?android:attr/textAppearanceLarge"
  android:text="price"
  android:id="@+id/price"
  android:textSize="20dp"
  android:layout_alignParentTop="true"
  android:layout_alignLeft="@+id/additem"
  android:layout_alignStart="@+id/additem" />
<Button
  style="?android:attr/buttonStyleSmall"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="Add Item"
  android:id="@+id/additem"
  android:layout_marginRight="31dp"
  android:layout_marginEnd="31dp"
  android:layout_alignBottom="@+id/img"
  android:layout_alignParentRight="true"
```

```
android:layout alignParentEnd="true"
  android:textSize="15dp" />
<TextView
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:textAppearance="?android:attr/textAppearanceMedium"
  android:text="null"
  android:id="@+id/quantity"
  android:layout_alignBottom="@+id/item"
  android:layout_alignRight="@+id/additem"
  android:layout_alignEnd="@+id/additem"
  android:textSize="20dp" />
<TextView
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="Rs."
  android:id="@+id/textView2"
  android:textSize="20dp"
  android:layout_alignBottom="@+id/price"
  android:layout_toLeftOf="@+id/price"
  android:layout_toStartOf="@+id/price" />
<TextView
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="Quantity:"
  android:id="@+id/textView3"
  android:textSize="20dp"
  android:layout_alignTop="@+id/quantity"
  android:layout_alignRight="@+id/price"
  android:layout_alignEnd="@+id/price" />
<Button
  android:layout width="30dp"
  android:layout_height="wrap_content"
  android:text="-"
  android:id="@+id/delete"
  android:layout_alignTop="@+id/additem"
  android:layout_alignParentRight="true"
  android:layout_alignParentEnd="true"
  android:textSize="20dp" />
```

```
</RelativeLayout>
```

```
activity_menu2.xml:
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:paddingBottom="@dimen/activity_vertical_margin"
  android:paddingLeft="@dimen/activity_horizontal_margin"
  android:paddingRight="@dimen/activity_horizontal_margin"
  android:paddingTop="@dimen/activity_vertical_margin"
  tools:context="com.foodzapp.yash.foodzapp.Menu"
  android:windowSoftInputMode="adjustNothing">
  <ListView
    android:id="@+id/list menu"
    android:layout_width="350dp"
    android:layout_height="350dp"
    android:layout_centerVertical="true"
    android:layout_alignParentLeft="true"
    android:layout_alignParentStart="true"
    tools:listitem="@layout/row"
    android:divider="@android:color/transparent"
    android:dividerHeight="40sp">
  </ListView>
  <TextView
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="MENU"
    android:id="@+id/textView"
    android:layout_alignParentTop="true"
    android:layout_alignParentLeft="true"
    android:layout_alignParentStart="true"
    android:textSize="30dp" />
```

```
<TextView
    android:layout_width="200dp"
    android:layout_height="wrap_content"
    android:text="TOTAL = 0"
    android:id="@+id/total"
    android:textSize="26dp"
    android:layout_alignBottom="@+id/order"
    android:layout_alignParentLeft="true"
    android:layout_alignParentStart="true" />
  <Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Order"
    android:id="@+id/order"
    android:layout alignParentBottom="true"
    android:layout_alignParentRight="true"
    android:layout_alignParentEnd="true" />
</RelativeLayout>
activity_order.xml:
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:paddingBottom="@dimen/activity vertical margin"
  android:paddingLeft="@dimen/activity horizontal margin"
  android:paddingRight="@dimen/activity_horizontal_margin"
  android:paddingTop="@dimen/activity_vertical_margin"
  tools:context="com.foodzapp.yash.foodzapp.order">
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Your total bill amount is "
    android:id="@+id/textView5"
    android:layout_alignParentTop="true"
    android:layout_alignParentLeft="true"
```

```
android:layout alignParentStart="true"
  android:layout_marginTop="113dp"
  android:textSize="20dp" />
<TextView
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="0"
  android:id="@+id/urtotal"
  android:layout_alignBottom="@+id/textView5"
  android:layout_alignParentRight="true"
  android:layout_alignParentEnd="true"
  android:textSize="25dp" />
<Button
  style="?android:attr/buttonStyleSmall"
  android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:text="PAY NOW"
  android:id="@+id/pay"
  android:layout_marginBottom="85dp"
  android:layout_alignParentBottom="true"
  android:layout_centerHorizontal="true" />
<EditText
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:inputType="textMultiLine"
  android:ems="8"
  android:id="@+id/address"
  android:layout_centerVertical="true"
  android:layout_alignParentRight="true"
  android:layout_alignParentEnd="true" />
<TextView
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="Address"
  android:id="@+id/textView6"
  android:layout_alignBottom="@+id/address"
  android:layout_alignParentLeft="true"
  android:layout_alignParentStart="true"
```

```
android:textSize="25dp" />
</RelativeLayout>
JAVA:
MainActitvity:
package com.foodzapp.yash.foodzapp;
import android.app.ActionBar;
import android.content.Intent;
import android.graphics.Color;
import android.graphics.drawable.ColorDrawable;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  Button login;
  EditText phone,password;
  TextView forgotpass, signup;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    login=(Button)findViewById(R.id.login_button);
    phone=(EditText)findViewById(R.id.phone);
    password=(EditText)findViewById(R.id.password);
```

forgotpass=(TextView)findViewById(R.id.forgotpass);

```
signup=(TextView)findViewById(R.id.signup);
final Intent forgot=new Intent(this,forgotpass.class);
forgotpass.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View v) {
    startActivity(forgot);
});
signup.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View v) {
    startActivity(new Intent(MainActivity.this,register.class));
  }
});
login.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View v) {
     Bundle extras = getIntent().getExtras();
     String ph=extras.getString("username");
    //String ps=extras.getString("pass");
    if(extras!=null){
       ph="notset";
      //ps="notset";
    if(phone.getText().toString().equals("9958792078") &&
         password.getText().toString().equals("yash")){
       Toast.makeText(getApplicationContext(),"WELCOME ADMIN...",Toast.LENGTH_SHORT).show();
    else if(phone.getText().toString().equals("9958446074") &&
         password.getText().toString().equals("mak")){
       Toast.makeText(getApplicationContext(),"WELCOME USER...",Toast.LENGTH_SHORT).show();
       startActivity(new Intent(MainActivity.this,Menu.class));
    }
```

```
/*else if(phone.getText().toString().equals(ph)&& password.getText().toString().equals(0)){
            Toast.makeText(getApplicationContext(),"WELCOME USER...",Toast.LENGTH_SHORT).show();
           startActivity(new Intent(MainActivity.this,Menu.class));
         ]*/
         else{
           Toast.makeText(getApplicationContext(),"Invalid Credentials",Toast.LENGTH_SHORT).show();
    });
forgotpass:
package com.foodzapp.yash.foodzapp;
import java.util.concurrent.TimeUnit;
import android.app.ActionBar;
import android.app.PendingIntent;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.telephony.SmsManager;
import android.util.Log;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.os.CountDownTimer;
import android.widget.EditText;
public class forgotpass extends AppCompatActivity {
  EditText phone1;
  EditText key;
  TextView resend;
```

```
Button go;
Button verify;
TextView _tv;
CountDownTimer countdowntimer;
@Override
protected void onCreate(Bundle savedInstanceState) {
  super.onCreate(savedInstanceState);
  setContentView(R.layout.activity_forgotpass);
  phone1=(EditText)findViewById(R.id.phn1);
  key=(EditText)findViewById(R.id.key);
  go=(Button)findViewById(R.id.gobtn);
  verify=(Button)findViewById(R.id.verifybtn);
  _tv = (TextView) findViewById( R.id.textView1);
  class CountDownTimerClass extends CountDownTimer {
    public CountDownTimerClass(long millisInFuture, long countDownInterval) {
       super(millisInFuture, countDownInterval);
    }
    @Override
    public void onTick(long millisUntilFinished) {
      int progress = (int) (millisUntilFinished/1000);
       _tv.setText(Integer.toString(progress)+" seconds left to enter the key");
    }
    @Override
    public void onFinish() {
       _tv.setText("TIME UP !");
       key.setEnabled(false);
```

```
// ADD THE CODE TO SEND A MESSAGE ON PHONE
    go.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         key.setEnabled(true);
         go.setEnabled(false);
         SmsManager smsManager = SmsManager.getDefault();
         smsManager.sendTextMessage("9790718874", null, "Your key to login is 4533", null, null);
         countdowntimer = new CountDownTimerClass(300000,1000);
         countdowntimer.start();
      }
    });
    verify.setOnClickListener(new View.OnClickListener() {
       @Override
      public void onClick(View v) {
         startActivity(new Intent(forgotpass.this,Menu.class));
      }
    });
register:
package com.foodzapp.yash.foodzapp;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class register extends AppCompatActivity {
```

```
Button register;
  EditText newphone;
  EditText newpass;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_register);
    newphone=(EditText)findViewById(R.id.phone);
    newpass=(EditText)findViewById(R.id.pswd);
    register=(Button)findViewById(R.id.reg);
    register.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         Intent i=new Intent(getApplicationContext(),MainActivity.class);
         //i.putExtra("username",newphone.getText().toString());
         //i.putExtra("pass",newpass.getText().toString());
         startActivity(i);
       }
    });
CustomList:
package com.foodzapp.yash.foodzapp;
* Created by Yashasvi on 31-10-2016.
import android.app.Activity;
import android.content.Context;
import android.support.v7.widget.RecyclerView;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.TextView;
```

```
import java.util.ArrayList;
import java.util.HashMap;
public class CustomList extends ArrayAdapter<String>{
  private final Activity context;
  private final String[] web;
  private final String[] price;
  private final Integer[] imageld;
  private final String[] quantity;
  private final Integer[] additem;
  public CustomList(Activity context,
             String[] web, String[] price, Integer[] imageId, String[] quantity, Integer[] additem) {
     super(context, R.layout.row, web);
     this.context = context;
     this.web = web;
     this.price = price;
     this.imageId = imageId;
     this.quantity=quantity;
     this.additem=additem;
  }
  @Override
  public View getView(final int position, View view, ViewGroup parent) {
     LayoutInflater inflater = context.getLayoutInflater();
     View rowView= inflater.inflate(R.layout. row, null, true);
     TextView txtTitle = (TextView) rowView.findViewByld(R.id. item);
     TextView pri=(TextView) rowView.findViewById(R.id.price);
     ImageView imageView = (ImageView) rowView.findViewById(R.id.img);
     Button additem=(Button) rowView.findViewById(R.id. additem);
     final TextView quan=(TextView) rowView.findViewById(R.id.quantity);
     Button delete=(Button) rowView.findViewById(R.id. delete);
     quan.setText(quantity[position]);
     additem.setOnClickListener(new View.OnClickListener() {
       @Override
```

```
public void onClick(View v) {
         int a=Integer.valueOf(quantity[position]);
         a++;
         quantity[position]=String.valueOf(a);
         quan.setText(quantity[position]);
       }
    });
    delete.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         int a=Integer.valueOf(quantity[position]);
         a--;
         if(a==-1){
            a=0;
         }
         quantity[position]=String.valueOf(a);
         quan.setText(quantity[position]);
       }
    });
     txtTitle.setText(web[position]);
     pri.setText(price[position]);
    imageView.setImageResource(imageId[position]);
     return rowView;
menu:
package com.foodzapp.yash.foodzapp;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;
import android.app.Activity;
```

}

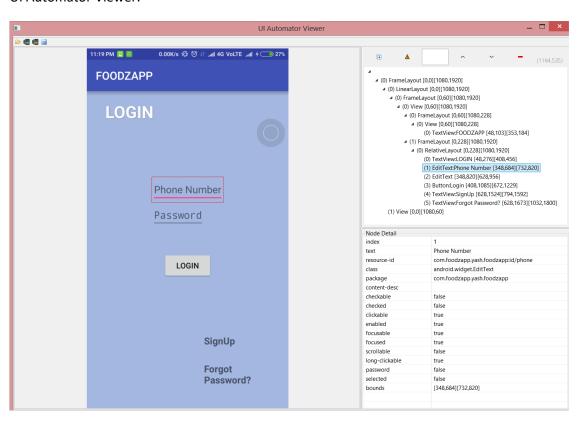
```
public class Menu extends Activity {
  TextView totaltxt;
  int total:
  Button order;
  ListView list:
  String[] web = {
       "Butter Chicken", "Kadai Chicken",
       "Kadai Paneer", "Shahi Paneer", "Butter Naan", "Coke"
  };
  String[] price = {
       "200","210","170","165","30","35"
  };
  Integer[] imageId = {
       R.drawable. download, R.drawable. kadai,
       R.drawable. kadaipaneer,
       R.drawable.shahi,
       R.drawable.naan,
       R.drawable.coke
  };
  String[] quantity= {
       "0","0","0","0","0","0"
  };
  Integer[] additem={
       R.id.additem
  };
  @Override
  protected void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
     setContentView(R.layout.activity_menu2);
     totaltxt=(TextView)findViewById(R.id.total);
     order=(Button)findViewById(R.id.order);
     CustomList adapter = new CustomList(Menu.this, web, price, imageId, quantity, additem);
     list=(ListView)findViewById(R.id.list_menu);
     list.setAdapter(adapter);
     list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
```

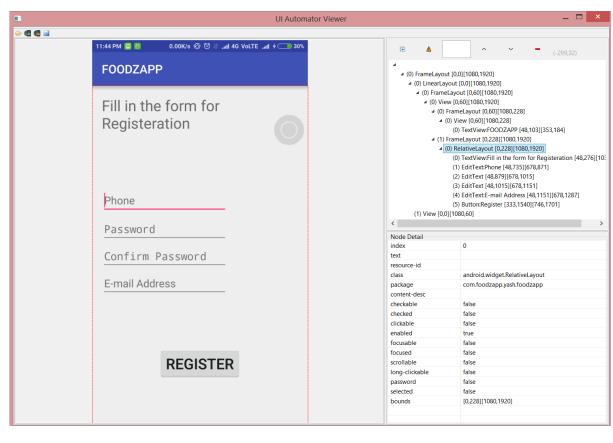
```
@Override
       public void onItemClick(AdapterView<?> parent, final View view,
                      final int position, long id) {
         Toast. make Text (Menu. this, "You Clicked at " +web[+ position], Toast. LENGTH_SHORT). show();
       }
    });
     totaltxt.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         total=0;
         for(int i=0;i<quantity.length;i++){</pre>
            total=total + Integer.valueOf(quantity[i])*Integer.valueOf(price[i]);
            totaltxt.setText("TOTAL = "+total);
         }
       }
    });
     order.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         Intent i=new Intent(getApplicationContext(),order.class);
         i.putExtra("total",total);
         startActivity(i);
       }
    });
order:
package com.foodzapp.yash.foodzapp;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
```

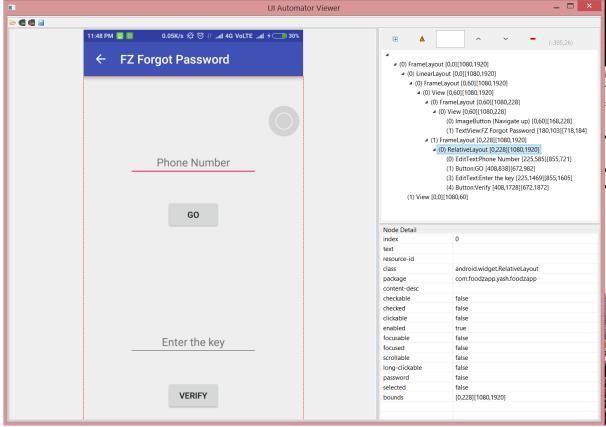
```
import android.widget.Toast;
public class order extends AppCompatActivity {
  TextView urtotal:
  EditText address:
  Button pay;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_order);
    urtotal=(TextView)findViewById(R.id.urtotal);
    int b;
    b=0;
    Bundle extras = getIntent().getExtras();
    if(extras!=null){
       b=extras.getInt("total");
    }
    urtotal.setText("Rs."+b);
    address=(EditText)findViewById(R.id.address);
    pay=(Button)findViewById(R.id.pay);
    pay.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         if(address.getText()==null){
            Toast.makeText(order.this, "Please fill the Address!",
                Toast. LENGTH_LONG).show();
         }
         Toast.makeText(order.this, "Payment portal not active!",
              Toast. LENGTH_LONG).show();
    });
```

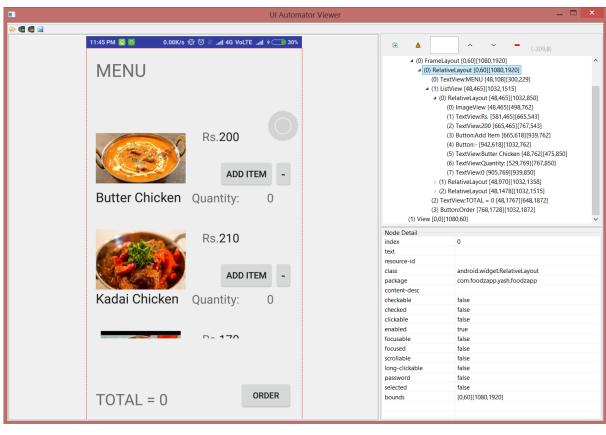
### **TESTING:**

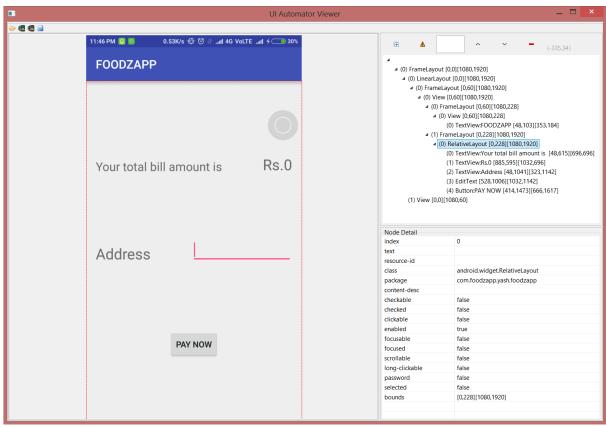
#### **UI Automator Viewer:**













## Foodzapp: Online Food Ordering App

Ritwik Kala, Yashasvi Asthana, Ritwik Gupta, Suryansh Bhardwaj

Prof. Anusha K.

**School of Computing Science and Engineering** 

### Introduction

The main objective behind this project was to provide a reliable online food ordering system that is robust and flexible. We have created an android application as platform for this purpose. The interactive graphical user interface and the overall simplicity of the application makes it easier for customers/users to place and pay for orders online.

## **Scope of Project**

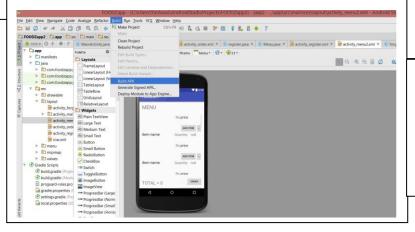
The scope our project is to provide an online food ordering android based application. It is a third party application which can be integrated into any restaurant system. This will allow that restaurant or food chain to take orders through this app. Users can select anything from the restaurant menu and can place order by giving his/her name, phone number and address. The user has an option to pay the bill online through this app or at the time of delivery.

# Methodology

Foodzapp is an online food ordering android based application. The application was created using Android Studio.

The interface of the android applications was designed through efficient XML Coding while the linking of pages and functionalities were designed using JAVA Coding.

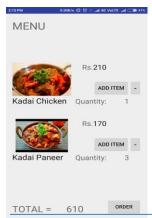
An APK was build using Android Studio through which the app can be installed.



### Results



This is the web application for Foodzapp which includes the functions as stated above. The screenshot includes interface through which we can login and place orders on the application.



This screenshot includes all the basic food ordering facilities of the application.

#### **Conclusion**

This project was not possible without the help and support from the faculties who assigned us and guided us during this project. We were successfully able to implement the basic functionality and provide an interesting application for both consumers and sellers.

### **Contact Details**

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