



# **Daffodil International University**

## **Project Report**

### **Title: Red-Onion**

Course Name: Pervasive Computing and Mobile App Development

Course Code: CSE335

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## **Abstract:**

Our technology is getting more advanced day by day and mobile is one of the most important parts of this technology. When we're talking about mobile, nowadays android takes up the largest part of the market which means android operating system based mobiles are the most used these days. As, we are now doing a course on Mobile Application Development, in particular learning android software development and hence we are interested Food Delivery App. An online ordering system where people can order and get their ordered item. This ordering system is very useful for the buyer's situations and the system is always open and the system is very fluent.

## **Motivation:**

Red-Onion allows users to conveniently discover food around their neighbourhood and directly order their favourite meals online or via mobile.

## **Objective:**

To become the world's fastest, most innovative business in the good food sector. Entertaining a unique brand of humor, at Red-Onion we believe that the best stories are created with creativity, wit and a definite insight into local cuisine culture.

## **Introduction:**

"Red-Onion" is an Android application to provide food delivery service to the people. Red-Onion ordering method follows a step-by-step procedure. First, Red-Onion collects the customer's postal information. The information is then filtered based on the data of restaurants in the region that offer delivery. In addition to the regular restaurant bargains, there are certain additional bonus deals that a client may use while buying through Red-Onion on the app. The restaurants' menus are further separated into sub-categories based on the type of food they provide. Customers receive a confirmation message from the Red-Onion operators after placing an order, and they are informed of the projected delivery time. Red-Onion transmits the order data as well as the customer's contact information to the restaurant in case there are any issues with the meal delivery.

## **Background:**

Designed UI for users of all ages.

Designed using XML in Android Studio.

Project is an android application.

## **Studies:**

- ✓Designed a user-friendly UI using XML.
- ✓Created various layout and draw able assets.
- ✓Created and connected database to the system.
- ✓Used SQLite.
- ✓Used JSON parsing.
- ✓Implemented multiple activities using INTENT.
- ✓Used multiple recycler views with cards.
- ✓Used Dependencies Injection.
- ✓Used CPU threading to run operations smoothly.
- ✓Performed Networking Operations like accessing the internet.
- ✓Added related graphical representations along with content.
- ✓Designed ER model.
- ✓Used external libraries for fetching data.

## **Challenges:**

The most challenges step for us to fix the bug. We face many problems while working in this Project.

## **Software Requirements:**

Software Configuration:

The system is developed using java as the language, which is both front end and back end, supported by the android platform. XML used to design the front end design. SQLite used to support back end and database connectivity.

OS: Android.

IDE: Android Studio 4.2.0.

Gradle: 6.7.0

Database: SQLite, JSON Fetching.

Hardware Configuration:

API: 21

Android version: Mashmello

RAM: 4GB

ROM: 8GB

## **Features:**

- Navigation Button
- Sign Up/ Sign In work with SQLite
- Homepage
- Bottom Navbar (Extra Feature)
- If we click Home logo in bottom Navbar then it it directly go to the homepage.
- If we click support logo then it will go to the the new page where we show our top clients with JSON.
- You can cart a products.
- You can go to the Cart page by clicking cart logo on the bottom Navbar.
- In the cart page you can see all of your order.

- In cart page you can increase or decrease your order. And bottom you can see a checkout button.

## **Conclusion:**

We persevered our best to forge an application with a sign up, sign in feature that would use the database to cross match existing and new users. Then would show the pre-stored data from JSON host and present it to the user in a unique and friendly way, so that it would add the ultimate value as the user could be efficient rather than searching in multiple platforms about the synopsis and other information about the particular genre of content.

## **Future Scope of Developments:**

There are features that we will be adding in the near future as our capabilities and skill grows in the next version of our primary version of our application. Those features are: We will add the payment systems such as Bkash, Paypal, etc. We will add most of the payment systems that are available for Bangladesh. We didn't update many things for a short time. We will update those features in the future and those will help the user to get their item and order the item they want more easily.