SOFTWARE ENGINEERING LAB EXERCISE NO 1

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Fast Food on Wheels Delivery System

1 Project Description

A client is requesting the implementation of custom tailored fast food delivery software management system to run on a server (or on cloud computing service). The kinds of fast food normally to be served include, Pizza, Hamburgers, Hot-dogs, etc. You can safely assume that the restaurant has preset limited types of fast foods, except that clients can choose, add or refuse, condiments and dressings. The system runs a back-end service which manages all the essential databases, e.g., available dishes, customers and customer orders, stocks of ingredients for the dishes, employees - part-timers and full-timers, managers, suppliers of stocks, etc. The front-end services feature interfaces for interacting with the management systems.

Responsibility of each student in your group

Sibusiso Mgidi - Front End and Back End

Culu Muzikawufani - Front End Siala Mbofholowo - Back End Ndivho Mamathuba - Back End

Back End Tasks

The system runs a back-end service which manages all the essential databases, e.g., available dishes, customers and customer orders, stocks of ingredients for the dishes, employees part-timers and full-timers, managers, suppliers of stocks, etc.

Front End Tasks

The front-end services feature interfaces for interacting with the mend developer is responsible for implementing visual elements that users see and interact with in a software application.

2 Actors interacting with the system

- Customer
- Restaurant Manager
- System Administrator

The customer interacts with the system:

Customer Registration

—Username.

- —Contact Details
- —Email address/phone numbers (for confirmation purpose)
- —Password
- —Address

Possible constrains

The password must contain an uppercase letter and be a minimum of 8 characters

User logins

- —Username
- —Password

Ordering use case

- —User can see the menu
- —User adds an item item from the menu
- —User orders the food
- —User can track the order in real time
- —User can cancel the order —User pays for the order
- —Payment options: Cash/Card

The rwestaurant manager interacts with the system to manage:

- —Stock Inventory
- —Orders
- —Customer database
- —Track delivery
- —Accounting/Finacial Administration
- —Duties, off-days, leaves, etc.
- —Generation of reports- Analytics

System Administrator responsibilities:

- —Setting up databases
- —Stopping/restarting system services
- —General system maintanance
- —Managing users accounts
- —Performing backups
- —Upgrading software