



CAFE MANAGEMENT SYSTEM



CAFE MANAGEMENT SYSTEM

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CAFE MANAGEMENT SYSTEM

PREFACE

AS A STUDENT OF BACHELOR OF COMPUTER APPLICATION ACCORDING TO THE SYLLABUS SUBSCRIBED BY BHAKTA KAVI NARSINH MEHTA UNIVERSITY, JUNAGADH(GUJARAT). IN 5TH SEMESTER OF B.C.A. TO PREPARE A PROJECT ON ANY PARTICULAR SUBJECT OF STUDENT CHOICE. THE PROJECT SHOULD BE SELECTED ON PRECISE SUBJECT THAT WILL FULL FILL THE REQUIREMENTS.

THE MAIN OBJECTIVE OF THE PROJECT IS TO DEVELOP AWARENESS REGARDING APPLICATION OF THEORIES IN THE MODERN WORLD OF INFORMATION TECHNOLOGY.

HERE THE PROJECT REPORT TRAINING IS UNDER TAKEN AT DR.V.R. GODHANIYA INSTITUTE OF INFORMATION TECHNOLOGY IN PORBANDAR. PROJECT REPORT HAS BEEN PREPARED ON THE BASE OF INFORMATION COLLECTED WHICH IS A RESULT OF HARD WORK DONE BY US.

WE HAVE TAKEN ALMOST CARE THAT THE INFORMATION PROVIDED IN THE PROJECT IS TRUE AND PROJECT IS IN SMOOTH RUNNING CONDITION AND ERROR FREE WE SINCERELY APOLOGIES IF ANY WRONG IS GIVEN WE HAVE TRIED OUR LEVEL BEST TO PROVIDE ALL THE NECESSARY INFORMATION AS PER THE SYLLABUS.

ACKNOWLEDGEMENT

IT IS OUR GREAT PLEASURE TO PRESENT OUR PROJECT REPORT ON CAFE MANAGEMENT SYSTEM WHICH WE CONCEIVED DURING THE BCA 5TH SEM AFFILIATED TO BHAKTA KAVI NARSINH MEHTA UNIVERSITY.

WE TAKE THIS OPPORTUNITY TO EXPRESS OUR SINCERE GRATITUDE AND WE FEEL IMMENSE PLEASURE TO THANK OUR FACULTY, PHILOSOPHER AND GUIDE DR. NIRAV DATANI WHO HELPED US AND GAVE FULL SUPPORT IN EACH AND EVERY WAY TO FULL FILL AND ACCOMPLISH OUR PROJECT OF CAFE MANAGEMENT SYSTEM.

WE ARE INDEBTED TO OUR COLLEGE DR. V. R. GODHANIYA COLLEGE OF I.T OUR DIRECTOR MR. DHAVAL KHER FOR GIVEN US AN EXCELLENT CHANCE TO PROVE OUR BEST WORK AND EFFORTS.

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PROJECT PROFILE

PROJECT NAME	CAFE MANAGEMENT SYSTEM
FRONT END	JAVAFX
BACK END	JAVA, MYSQL
DEVELOPED BY	OM DAUDIA, KHODA KESHWALA AND DEVEN ODEDRA
OBJECTIVE	TO DEVELOP A SYSTEM THAT AUTOMATES THE OPERATIONS OF AN CAFE, INCLUDING ORDERING AND STOCK MANAGE.
SCOPE	THE PROJECT INCLUDES CUSTOMER ORDER, MAKE INVOICE AND STOCK MANAGE
TECHNOLOGIES USED	JAVA, JAVAFX, SCENE BUILDER, MYSQL AND ITEXT
TARGET AUDIENCE/USER	CAFÉ OWNER AND STAF
TIMELINE	TE PROJECT SPEND OVER ONE MONTH, WITH KEY MILISTONES INCLUDING PLANNING, SYSTEM DESIGN, IMPLIMENTATION AND TESTING.
DEVELOPED AT	DR. V. R. GODHANIYA COLLAGE OF I.T
TESING	Manual
TASK	ANALYSIS, DESIGNING, CODING, TESTING

CAFE MANAGEMENT SYSTEM

ABSTRACT OF PROJECT

THE CAFE MANAGEMENT SYSTEM WAS DEVELOPED TO ADDRESS THE CHALLENGES OF MANUAL MANAGEMENT IN ICE CREAM CAFES, SUCH AS INEFFICIENT ORDER PROCESSING AND STOCK MONITORING.

THE PRIMARY OBJECTIVE OF THIS PROJECT IS TO DESIGN AND IMPLEMENT AN AUTOMATED SYSTEM THAT STREAMLINES CAFE OPERATIONS BY MANAGING INVENTORY AND CUSTOMER ORDERS.

THE SYSTEM WAS DEVELOPED USING JAVA AND JAVA FX FOR THE USER INTERFACE, MYSQL FOR DATABASE MANAGEMENT, AND SCENE BUILDER FOR LAYOUT DESIGN.

IT PROVIDES FUNCTIONALITIES SUCH AS REAL-TIME ORDER TRACKING, AUTOMATED BILLING AND INVENTORY UPDATES.

THE SYSTEM RESULTED IN A SIGNIFICANT REDUCTION IN MANUAL ERRORS, INCREASED EFFICIENCY IN ORDER PROCESSING, AND IMPROVED INVENTORY MANAGEMENT.

OVERALL, THE CAFE MANAGEMENT SYSTEM SUCCESSFULLY MET THE PROJECT OBJECTIVES AND IMPROVED OPERATIONAL EFFICIENCY. FUTURE ENHANCEMENTS COULD INCLUDE SALES REPORTING, ONLINE ORDER INTEGRATION, EMPLOYEE SHIFT MANAGEMENT AND A CUSTOMER FEEDBACK SYSTEM.

FEASIBILITY STUDY

1. TECHNICAL FEASIBILITY

THIS PART EXAMINES WHETHER THE TECHNOLOGY AND TOOLS USED TO DEVELOP THE SYSTEM ARE ADEQUATE, CONSIDERING FACTORS SUCH AS HARDWARE, SOFTWARE, AND SKILLS.

- **TOOLS AND TECHNOLOGIES:**
 - **PROGRAMMING LANGUAGE:** JAVA
 - **FRAMEWORK:** JAVA FX FOR THE USER INTERFACE
 - **DATABASE:** MYSQL DATABASE

CAFE MANAGEMENT SYSTEM

- **LIBRARIES:** CONTROLSFX FOR ADVANCED UI CONTROLS, OTHER RELEVANT JAVA LIBRARIES FOR PDF GENERATION, ETC.
- **DEVELOPMENT__SKILLS:**
EVALUATE THE TEAM'S ABILITY TO WORK WITH JAVA AND JAVA FX AND WHETHER THEY HAVE THE SKILLS TO IMPLEMENT FEATURES LIKE BILLING, INVENTORY, ORDER MANAGEMENT.
- **HARDWARE REQUIREMENTS:**
 - MINIMUM: 2 GB RAM, 2 GHZ PROCESSOR, AND 500 MB STORAGE FOR RUNNING THE MANAGEMENT SYSTEM.
- **SOFTWARE REQUIREMENTS:**
 - JAVA DEVELOPMENT KIT (JDK)
 - INTELLIJ IDEA OR ANY OTHER IDE
 - SCENE BUILDER FOR UI DESIGN
 - MYSQL DATABASE MANAGEMENT SYSTEM

2. ECONOMIC FEASIBILITY

THIS SECTION EVALUATES THE COST-BENEFIT ANALYSIS OF THE SYSTEM. DETERMINE WHETHER THE PROJECT IS FINANCIALLY VIABLE BY COMPARING COSTS AGAINST EXPECTED BENEFITS.

- **INITIAL COSTS:**
 - DEVELOPMENT COST: SALARY OR HOURS SPENT BY DEVELOPERS.
 - HARDWARE: COMPUTERS, NETWORK INFRASTRUCTURE, AND SERVER COSTS (IF NEEDED).
 - SOFTWARE: PURCHASE OF IDEs (IF NECESSARY), DATABASE LICENSES (IF NOT USING OPEN-SOURCE OPTIONS).

CAFE MANAGEMENT SYSTEM

- **OPERATIONAL COSTS:**

- MAINTENANCE: UPDATING THE SYSTEM, BUG FIXES, AND TECHNICAL SUPPORT.
- SERVER AND HOSTING COSTS: IF CLOUD SERVICES ARE REQUIRED TO STORE DATA OR PROVIDE MULTI-LOCATION ACCESS.

- **EXPECTED BENEFITS:**

- AUTOMATION OF MANUAL PROCESSES, REDUCING HUMAN ERROR AND SAVING TIME.
- STREAMLINED OPERATIONS (INVENTORY, BILLING) TO IMPROVE PROFITABILITY.
- SCALABILITY FOR FUTURE GROWTH (E.G., MULTI-LOCATION CAFÉS).

- **COST-BENEFIT__ANALYSIS:**

CALCULATE THE RETURN ON INVESTMENT (ROI) BY ESTIMATING HOW MUCH TIME AND COST SAVINGS THE CAFÉ CAN EXPECT ONCE THE SYSTEM IS IN USE.

3. OPERATIONAL FEASIBILITY

OPERATIONAL FEASIBILITY ADDRESSES HOW WELL THE PROPOSED SOLUTION WILL SOLVE THE PROBLEMS OF THE CAFÉ AND WHETHER THE END-USERS (CAFÉ STAFF, MANAGERS) WILL ADAPT TO THE SYSTEM.

- **USER INVOLVEMENT:**

- THE SYSTEM SHOULD BE USER-FRIENDLY WITH MINIMAL TRAINING REQUIRED FOR STAFF MEMBERS TO USE THE POINT-OF-SALE (POS) AND INVENTORY MANAGEMENT.

- **PROCESSES COVERED:**

- ORDER MANAGEMENT
- BILLING
- INVENTORY MANAGEMENT

CAFE MANAGEMENT SYSTEM

- **RESISTANCE TO CHANGE:**

- CAFÉ EMPLOYEES MAY NEED TRAINING SESSIONS TO TRANSITION FROM MANUAL PROCESSES TO AN AUTOMATED SYSTEM. ASSESS HOW EASILY THE SYSTEM CAN INTEGRATE INTO DAILY OPERATIONS.

- **SUPPORT & MAINTENANCE:**

OUTLINE HOW MAINTENANCE, UPDATES, AND SUPPORT WILL BE HANDLED TO ENSURE THE SYSTEM'S SMOOTH FUNCTIONING OVER TIME.

6. MARKET FEASIBILITY

WHILE NOT ALWAYS ESSENTIAL FOR INTERNAL SYSTEMS, UNDERSTANDING THE MARKET NEED CAN HELP DEFINE THE PROJECT'S FUTURE SCALABILITY.

- **MARKET DEMAND:**

RESEARCH THE DEMAND FOR SUCH CAFÉ MANAGEMENT SYSTEMS. ARE THERE COMPETITORS? COULD YOUR SYSTEM BE EXPANDED INTO A PRODUCT FOR SALE OR LICENSING TO OTHER CAFÉS?

- **COMPETITOR ANALYSIS:**

ANALYZE SIMILAR SYSTEMS IN THE MARKET (SQUARE, TOAST, ETC.) AND IDENTIFY THEIR STRENGTHS AND WEAKNESSES. HIGHLIGHT WHAT MAKES YOUR SYSTEM UNIQUE OR BETTER SUITED FOR A PARTICULAR CAFÉ SIZE OR STYLE.

7. RISK FEASIBILITY

IDENTIFY THE RISKS INVOLVED IN DEVELOPING AND DEPLOYING THE SYSTEM.

- **TECHNICAL RISKS:**

- UNFORESEEN BUGS DURING DEVELOPMENT.
- INTEGRATION ISSUES WITH EXTERNAL SYSTEMS (E.G., PAYMENT GATEWAYS).

- **OPERATIONAL RISKS:**

- DIFFICULTY IN TRAINING CAFÉ STAFF TO USE THE SYSTEM.
- SYSTEM DOWNTIME, WHICH MAY LEAD TO OPERATIONAL DELAYS.

CAFE MANAGEMENT SYSTEM

- **FINANCIAL RISKS:**

- OVERESTIMATION OF THE SYSTEM'S ROI.
- UNFORESEEN COSTS DURING THE DEVELOPMENT OR OPERATIONAL PHASES.

- **MITIGATION PLANS:**

- TESTING STRATEGIES TO CATCH BUGS EARLY.
- PROVIDING COMPREHENSIVE TRAINING AND DOCUMENTATION FOR THE END-USERS.

SYSTEM ANALYSIS AND DESIGNING

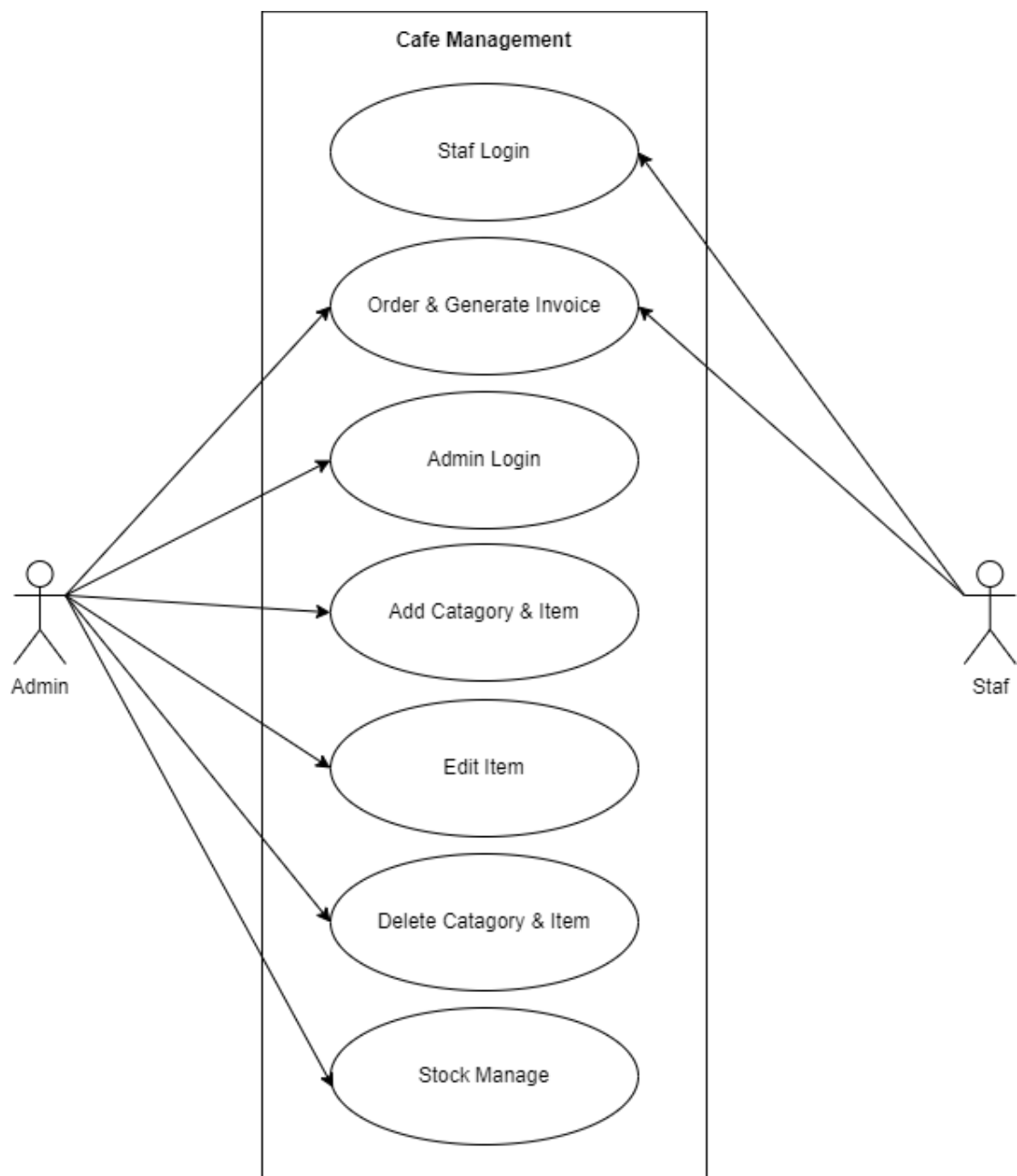
- **REQUIREMENT ANALYSIS**

- FUNCTIONAL REQUIREMENT :
 - THE SOFTWARE MUST ALLOW INPUT OF PRODUCT DATA FROM ADMINISTRATOR & SECURED ACCESS AT, AND FROM THE DATA STREAMING REAL-TIME MONITORING EQUIPMENT.
- NON-FUNCTIONAL REQUIREMENT :
 - THE SOFTWARE INTERFACE MUST FOLLOW DESIGN CONVENTIONS WHICH ALLOW FOR FAMILIAR LOCATION OF MENUS ETC.
 - INPUT ERRORS WILL BE RETURNED IN RED WITH APPROPRIATE MESSAGE BOX.
- USER REQUIREMENT :
 - THE USER OF SYSTEM ARE STAFF MANAGER.
 - THE USE MANUAL INSTALLATION GUIDE AND OTHER RELATED MATERIAL SHOULD BE SUFFICIENT TO EDUCATE THE USER HOW TO USE AND MAINTAIN THE SYSTEM.
- SOFTWARE REQUIREMENT :
 - MICROSOFT VISUAL STUDIO 2010 (SQL SERVER, DATABASE, .NET FRAMEWORK)
- HARDWARE REQUIREMENT :
 - MINIMUM : 1.6 GHZ CPU OR FASTER PROCESSOR, 1 GB (32 BIT) OR 2 GB (64 BIT) RAM.

CAFE MANAGEMENT SYSTEM

□ USE CASE DIAGRAM

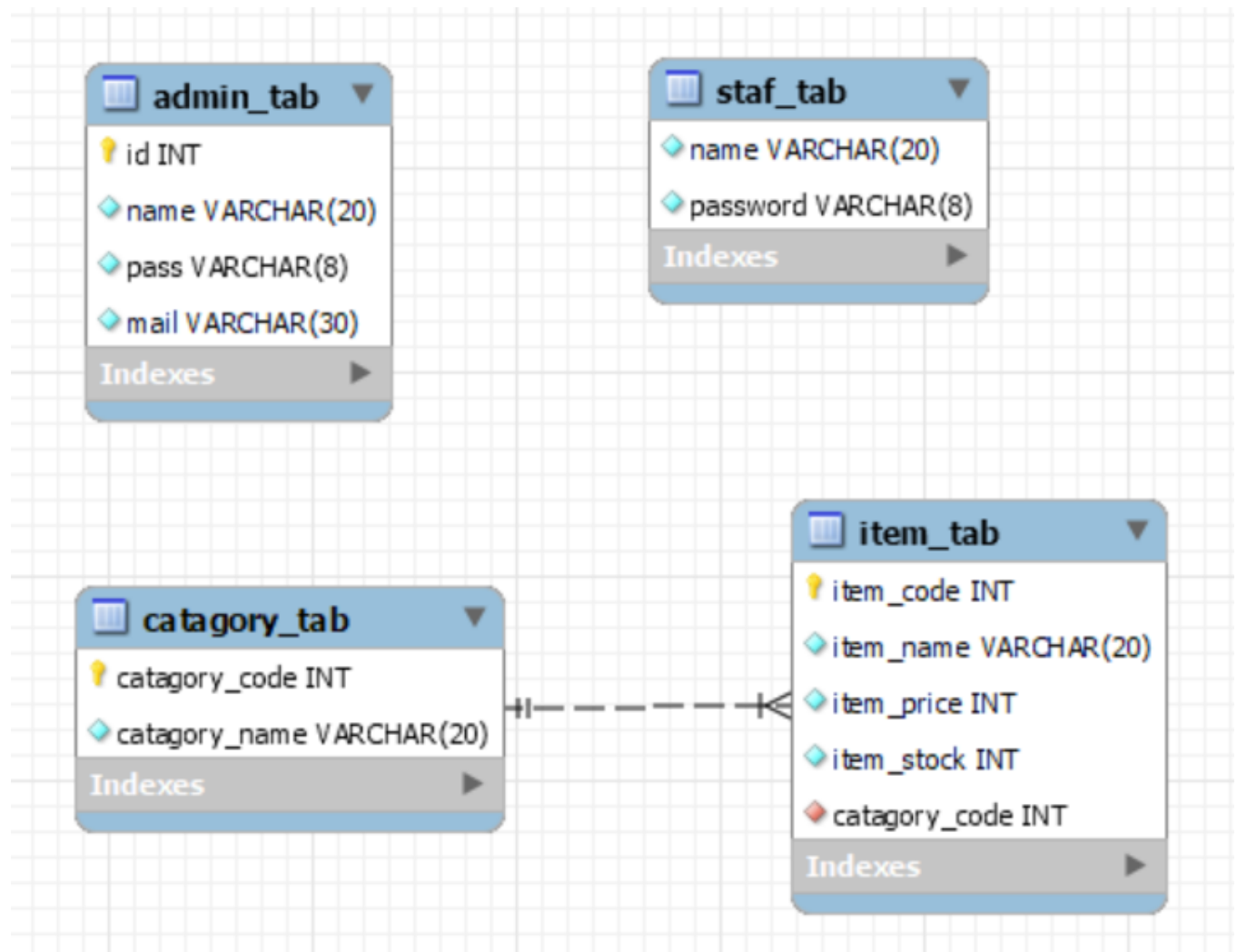
A USE CASE DIAGRAM IS USED TO REPRESENT THE DYNAMIC BEHAVIOR OF A SYSTEM. IT ENCAPSULATES THE SYSTEM'S FUNCTIONALITY BY INCORPORATING USE CASES, ACTORS, AND THEIR RELATIONSHIPS. IT MODELS THE TASKS, SERVICES, AND FUNCTIONS REQUIRED BY A SYSTEM/SUBSYSTEM OF AN APPLICATION. IT DEPICTS THE HIGH-LEVEL FUNCTIONALITY OF A SYSTEM AND ALSO TELLS HOW THE USER HANDLES A SYSTEM.



CAFE MANAGEMENT SYSTEM

□ CLASS DIAGRAM (OOP)

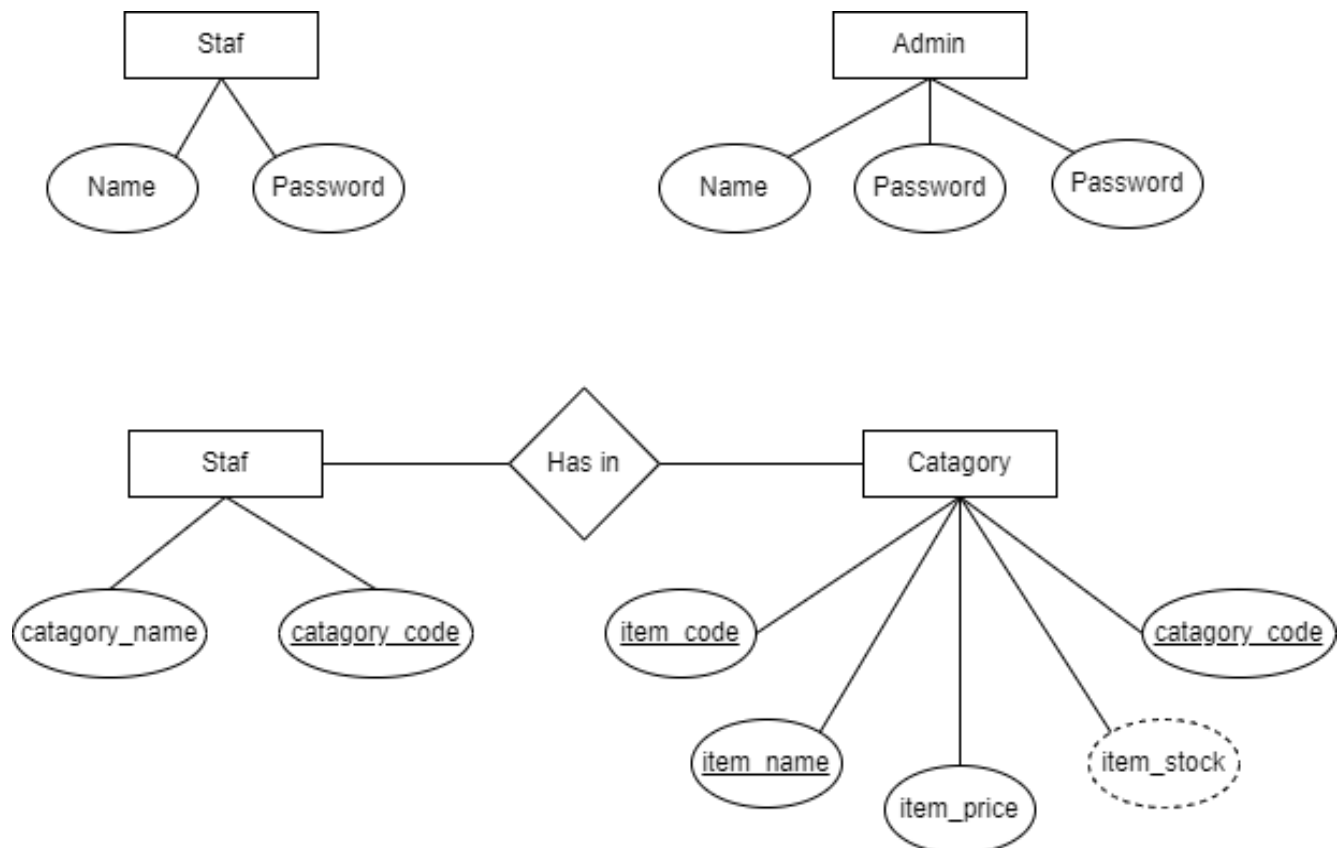
CLASS DIAGRAMS ARE A TYPE OF UML (UNIFIED MODELING LANGUAGE) DIAGRAM USED IN SOFTWARE ENGINEERING TO VISUALLY REPRESENT THE STRUCTURE AND RELATIONSHIPS OF CLASSES WITHIN A SYSTEM I.E. USED TO CONSTRUCT AND VISUALIZE OBJECT-ORIENTED SYSTEMS.



PROJECT LIFE CYCLE

□ E R DIAGRAM

THE ENTITY RELATIONAL MODEL IS A MODEL FOR IDENTIFYING ENTITIES TO BE REPRESENTED IN THE DATABASE AND REPRESENTATION OF HOW THOSE ENTITIES ARE RELATED. THE ER DATA MODEL SPECIFIES ENTERPRISE SCHEMA THAT REPRESENTS THE OVERALL LOGICAL STRUCTURE OF A DATABASE GRAPHICALLY.



□ DATA FLOW DIAGRAM (DFD)

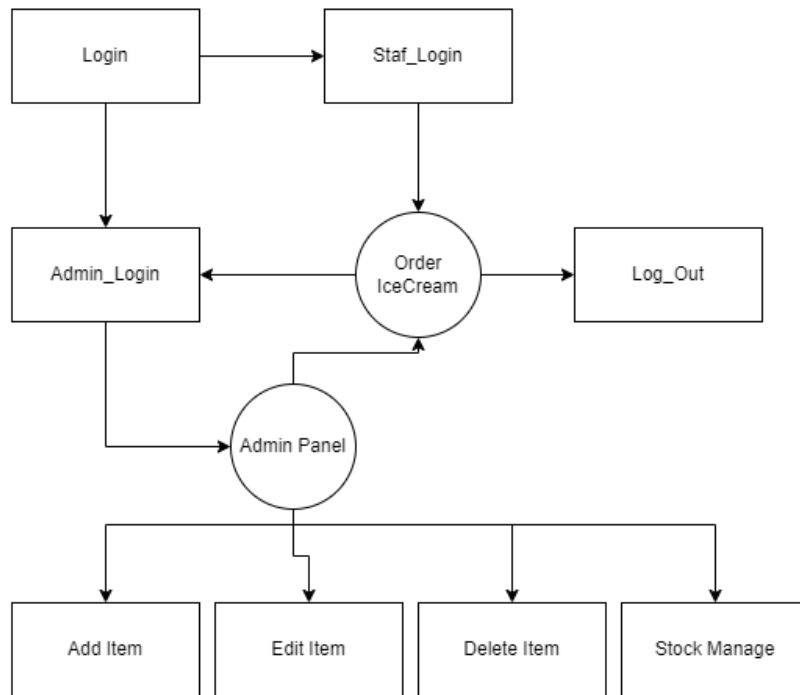
A DATA FLOW DIAGRAM (DFD) IS A TRADITIONAL VISUAL REPRESENTATION OF THE INFORMATION FLOWS WITHIN A SYSTEM. A NEAT AND CLEAR DFD CAN DEPICT THE RIGHT AMOUNT OF THE SYSTEM REQUIREMENT GRAPHICALLY. IT CAN BE MANUAL, AUTOMATED, OR A COMBINATION OF BOTH. IT SHOWS HOW DATA ENTERS AND LEAVES THE SYSTEM, WHAT CHANGES THE INFORMATION, AND WHERE DATA IS STORED.

CAFE MANAGEMENT SYSTEM

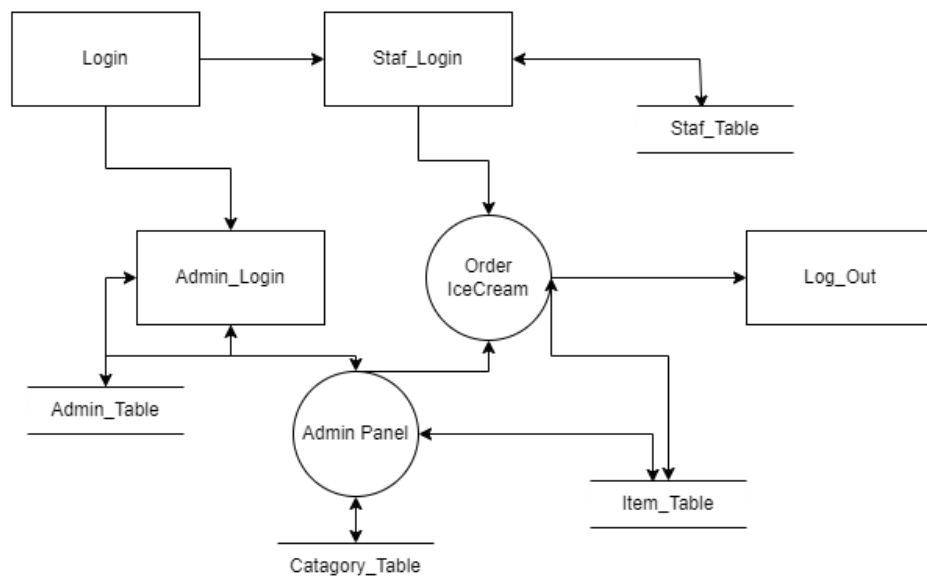
Level 0



Level 1.0



Level 1.1



□ **ACTIVITY DIAGRAM**

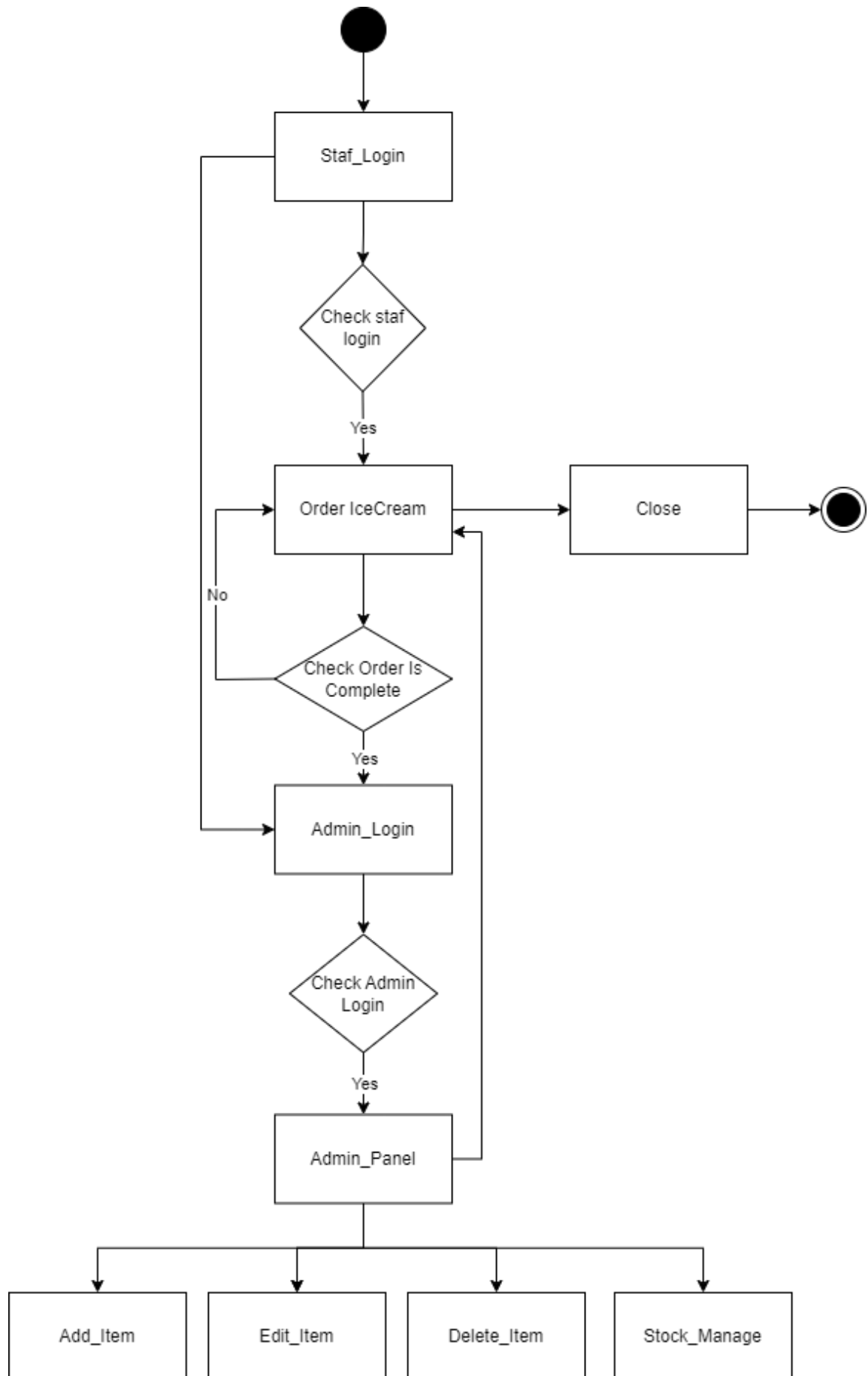
ACTIVITY DIAGRAMS ARE USED TO ILLUSTRATE THE FLOW OF CONTROL IN A SYSTEM AND REFER TO THE STEPS INVOLVED IN THE EXECUTION OF A USE CASE. WE CAN DEPICT BOTH SEQUENTIAL PROCESSING AND CONCURRENT PROCESSING OF ACTIVITIES USING AN ACTIVITY DIAGRAM IE AN ACTIVITY DIAGRAM FOCUSES ON THE CONDITION OF FLOW AND THE SEQUENCE IN WHICH IT HAPPENS.

WE DESCRIBE WHAT CAUSES A PARTICULAR EVENT USING AN ACTIVITY DIAGRAM.

AN ACTIVITY DIAGRAM PORTRAYS THE CONTROL FLOW FROM A START POINT TO A FINISH POINT SHOWING THE VARIOUS DECISION PATHS THAT EXIST WHILE THE ACTIVITY IS BEING EXECUTED.

THEY ARE USED IN BUSINESS AND PROCESS MODELING WHERE THEIR PRIMARY USE IS TO DEPICT THE DYNAMIC ASPECTS OF A SYSTEM.

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CAFE MANAGEMENT SYSTEM

DATA DICTIONARY

□ TABLES

○ ADMIN TABLE

FIELD NAME	DATA TYPE	CONSTRAINTS
NAME	VARCHAR(20)	NO
PASSWORD	VARCHAR(8)	NO
EMAIL	VARCHAR(20)	NO

○ STAFF TABLE

FIELD NAME	DATA TYPE	CONSTRAINTS
NAME	VARCHAR(20)	NO
PASSWORD	VARCHAR(8)	NO

○ CATEGORY TABLE

FIELD NAME	DATA TYPE	CONSTRAINTS
CATEGORY_CODE	INT	P.K & A.I
CATEGORY_NAME	VARCHAR(20)	NO

○ ITEM TABLE

FIELD NAME	DATA TYPE	CONSTRAINTS
ITEM_CODE	INT	P.K & A.I
ITEM_NAME	VARCHAR(20)	NO
ITEM_PRICE	DOUBLE	NO
ITEM_STOCK	INT	NO
CATEGORY_CODE	INT	F.K

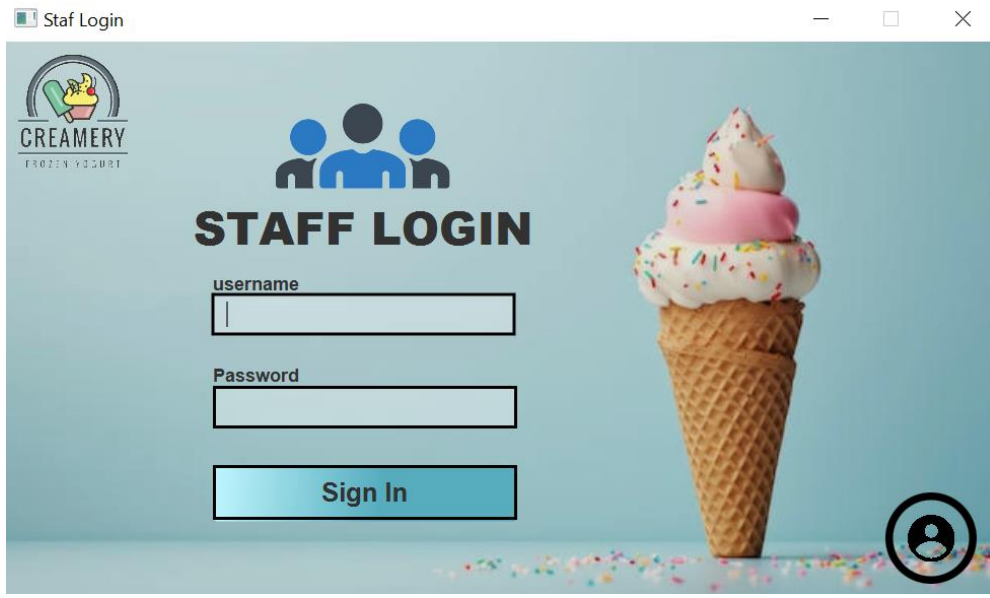
TESTING

- **MANUAL (ISSUES & SOLUTIONS) WITH DATA**
 - MANUAL TESTING IS A METHOD USED BY SOFTWARE DEVELOPERS TO RUN TESTS MANUALLY. THERE ARE MANY MANUAL TESTING TYPES WHICH ARE CARRIED OUT MANUALLY AS WELL AS AUTOMATICALLY.
- **BLACK BOX TESTING:**
 - IT IS A TESTING METHOD TO TEST FUNCTIONALITIES AND REQUIREMENTS OF THE SYSTEM. IT DOES NOT TEST THE INTERNAL PART OF THE SYSTEM.
- **WHITE BOX TESTING:**
 - IT IS A TESTING METHOD BASED ON INFORMATION OF THE INTERNAL LOGIC OF AN APPLICATION'S CODE AND ALSO KNOWN AS GLASS BOX TESTING. IT WORKS ON INTERNAL WORKING CODE OF THE SYSTEM.
- **SYSTEM TESTING:**
 - IT IS A TECHNIQUE TO TEST WHOLE SYSTEM.
- **UNIT TESTING:**
 - TESTING METHOD TO TEST SPECIFIC COMPONENT OF SOFTWARE OR MODULE. IT IS SPECIALLY DONE BY PROGRAMMERS AND NOT BY TESTERS, BECAUSE IT NEEDS THOROUGH KNOWLEDGE OF THE INTERNAL PROGRAMMING DESIGN AND CODE.
- **ACCEPTANCE TESTING:**
 - THIS TYPE OF TESTING VERIFIES THAT THE SYSTEM MEETS THE CUSTOMER SPECIFIED REQUIREMENTS OR NOT. USER OR A CUSTOMER DOES THIS TESTING TO DECIDE WHETHER TO ACCEPT APPLICATION.

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USER INTERFACE(SNAPSHOTS) & SOURCE CODE

STAFF LOGIN :



❑ **MAIN JAVA FILE** STAF_LOGIN.JAVA
PACKAGE ORG.EXAMPLE.CAFE_MANAGEMENT;

```
IMPORT JAVA.FX.APPLICATION.APPLICATION;  
IMPORT JAVA.FX.FXML.FXMLLoader;  
IMPORT JAVA.FX.SCENE.SCENE;  
IMPORT JAVA.FX.STAGE.STAGE;
```

```
IMPORT JAVA.IO.IOEXCEPTION;
```

```
PUBLIC CLASS STAF_LOGIN EXTENDS APPLICATION {
```

```
    @Override
```

```
    PUBLIC VOID START(STAGE STAGE) THROWS EXCEPTION {
```

```
        FXMLLoader fXMLLoader = new
```

```
        FXMLLoader(CAFE.CLASS.GETRESOURCE("STAF_LOGIN-VIEW.FXML"));
```

```
        SCENE SCENE = null;
```

```
        TRY {
```

```
        SCENE = NEW SCENE(FXMLLOADER.LOAD());
//    STAGE.SETFULLSCREEN(TRUE);
        STAGE.SETMAXIMIZED(FALSE);
        STAGE.SETTITLE("STAF LOGIN");
        STAGE.SETSCENE(SCENE);
        STAGE.SETMAXIMIZED(FALSE);
        STAGE.SETRESIZABLE(FALSE);
        STAGE.SHOW();
    } CATCH (IOEXCEPTION E) {
        SYSTEM.OUT.PRINTLN(E.TOSTRING());
    }
}

PUBLIC STATIC VOID MAIN(STRING[] ARGS) {
    LAUNCH();
}
}
```

□ **FXML FILE** STAF-VIEW.FXML

```
<?XML VERSION="1.0" ENCODING="UTF-8"?>

<?IMPORT JAVA.FX.SCENE.CONTROL.BUTTON?>
<?IMPORT JAVA.FX.SCENE.CONTROL.LABEL?>
<?IMPORT JAVA.FX.SCENE.CONTROL.PASSWORDFIELD?>
<?IMPORT JAVA.FX.SCENE.CONTROL.TEXTFIELD?>
<?IMPORT JAVA.FX.SCENE.EFFECT.COLORADJUST?>
<?IMPORT JAVA.FX.SCENE.IMAGE.IMAGE?>
<?IMPORT JAVA.FX.SCENE.IMAGE.IMAGEVIEW?>
<?IMPORT JAVA.FX.SCENE.LAYOUT.PANE?>
<?IMPORT JAVA.FX.SCENE.TEXT.FONT?>

<PANE MAXHEIGHT="566.0" MAXWIDTH="695.0" MINHEIGHT="-INFINITY"
MINWIDTH="-INFINITY" PREFHEIGHT="367.0" PREFWIDTH="654.0"
XMLNS="HTTP://JAVAFX.COM/JAVAFX/22" XMLNS:FX="HTTP://JAVAFX.COM/FXML/1"
FX:CONTROLLER="ORG.EXAMPLE.CAFE_MANAGEMENT.LOGIN_CONTROLLER">
    <CHILDREN>
```

CAFE MANAGEMENT SYSTEM

```
<ImageView FITHEIGHT="368.0" FITWIDTH="655.0" PICKONBOUNDS="TRUE"
PRESERVERATIO="TRUE">
    <EFFECT>
        <COLORADJUST BRIGHTNESS="-0.1" />
    </EFFECT>
    <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/BACK5.JPEG" />
    </IMAGE>
</ImageView>
<ImageView FITHEIGHT="92.0" FITWIDTH="92.0" PICKONBOUNDS="TRUE"
PRESERVERATIO="TRUE">
    <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/LOGO1.PNG" />
    </IMAGE>
</ImageView>
<ImageView FITHEIGHT="137.0" FITWIDTH="157.0" LAYOUTX="168.0"
PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE">
    <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/STAFF_ICON.PNG"
/>
    </IMAGE>
</ImageView>
<PANE FX:ID="LOGINPANE" LAYOUTX="119.0" LAYOUTY="145.0"
PREFHEIGHT="211.0" PREFWIDTH="236.0">
    <CHILDREN>
        <LABEL LAYOUTX="19.0" LAYOUTY="6.0" TEXT="USERNAME">
            <FONT>
                <FONT NAME="ARIAL BOLD" SIZE="12.0" />
            </FONT>
        </LABEL>
        <TEXTFIELD FX:ID="STAF_USERNAME" LAYOUTX="18.0" LAYOUTY="20.0"
PREFHEIGHT="15.0" PREFWIDTH="200.0" STYLE="-FX-BORDER-COLOR: BLACK; -
FX-BACKGROUND-COLOR: #FFFFFF56; -FX-BORDER-WIDTH: 2PX;">
            <FONT>
                <FONT NAME="ARIAL" SIZE="13.0" />
            </FONT>
        </TEXTFIELD>
```

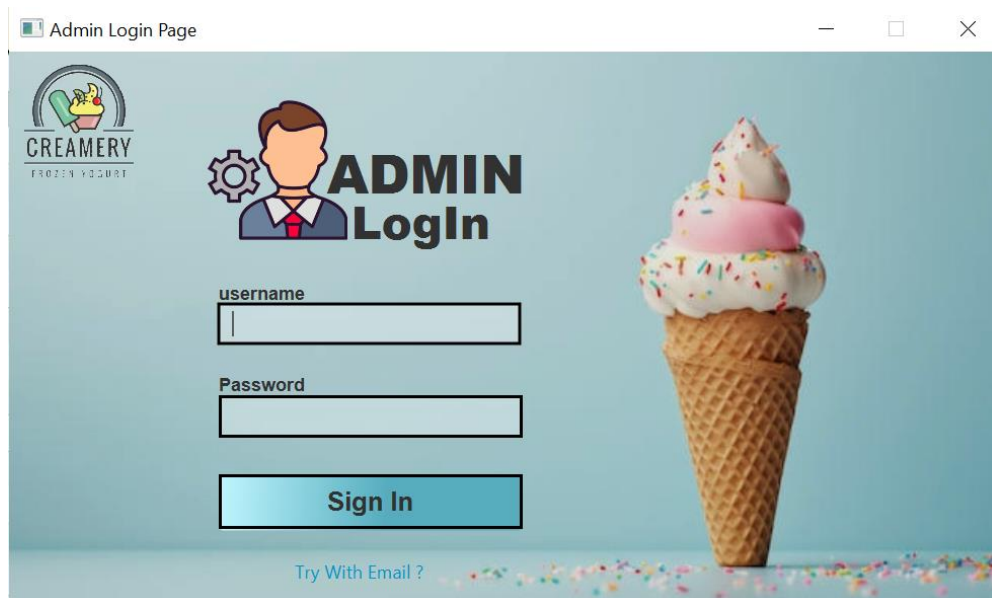
CAFE MANAGEMENT SYSTEM

```
<LABEL LAYOUTX="19.0" LAYOUTY="66.0" TEXT="PASSWORD">
  <FONT>
    <FONT NAME="ARIAL BOLD" SIZE="12.0" />
  </FONT>
</LABEL>
<TEXTFIELD FX:ID="MAIL" LAYOUTX="19.0" LAYOUTY="81.0"
PREFHEIGHT="15.0" PREFWIDTH="200.0" STYLE="-FX-BORDER-COLOR: BLACK; -
FX-BACKGROUND-COLOR: #FFFFFF56; -FX-BORDER-WIDTH: 2PX;" VISIBLE="FALSE">
  <FONT>
    <FONT NAME="ARIAL" SIZE="13.0" />
  </FONT>
</TEXTFIELD>
<PASSWORDFIELD FX:ID="STAF_PASS" LAYOUTX="19.0" LAYOUTY="81.0"
PREFHEIGHT="15.0" PREFWIDTH="200.0" STYLE="-FX-BACKGROUND-COLOR:
#FFFFFF56; -FX-BORDER-COLOR: BLACK; -FX-BORDER-WIDTH: 2PX;">
  <FONT>
    <FONT NAME="ARIAL" SIZE="13.0" />
  </FONT>
</PASSWORDFIELD>
<BUTTON LAYOUTX="19.0" LAYOUTY="133.0" MNEMONICPARSING="FALSE"
ONACTION="#STAG_LOGIN_ACTION" PREFHEIGHT="32.0" PREFWIDTH="200.0"
STYLE="-FX-BORDER-COLOR: BLACK; -FX-BACKGROUND-COLOR: LINEAR-
GRADIENT(FROM 0.0% 21.7666% TO 100.0% 59.306%, #BFF6FF 0.0%, #57ADBE
55.2573%, #57ADBE 100.0%); -FX-BORDER-WIDTH: 2PX;" TEXT="SIGN IN">
  <FONT>
    <FONT NAME="ARIAL BOLD" SIZE="17.0" />
  </FONT>
</BUTTON>
</CHILDREN>
</PANE>
<LABEL LAYOUTX="125.0" LAYOUTY="100.0" TEXT="STAFF LOGIN">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="30.0" />
  </FONT>
</LABEL>
<BUTTON LAYOUTX="580.0" LAYOUTY="296.0" MNEMONICPARSING="FALSE"
ONACTION="#LOGIN_BTN" PREFHEIGHT="60.0" PREFWIDTH="60.0" STYLE="-FX-
```

CAFE MANAGEMENT SYSTEM

```
BORDER-COLOR: BLACK; -FX-BACKGROUND-COLOR: TRANSPERANT; -FX-BORDER-
WIDTH: 5PX; -FX-BORDER-RADIUS: 50%;">
    <FONT>
        <FONT NAME="ARIAL BLACK" SIZE="14.0" />
    </FONT>
    <GRAPHIC>
        <IMAGEVIEW FITHEIGHT="36.0" FITWIDTH="31.0" PICKONBOUNDS="TRUE"
PRESERVERATIO="TRUE">
            <IMAGE>
                <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/ADMIN.PNG" />
            </IMAGE>
        </IMAGEVIEW>
    </GRAPHIC>
</BUTTON>
</CHILDREN>
</PANE>
```

ADMIN LOGIN :



CAFE MANAGEMENT SYSTEM

□ **MAIN JAVA FILE** ADMIN_LOGIN.JAVA

```
PACKAGE ORG.EXAMPLE.CAFE_MANAGEMENT;

IMPORT JAVA.FX.APPLICATION.APPLICATION;
IMPORT JAVA.FX.FXML.FXMLLOADER;
IMPORT JAVA.FX.SCENE.SCENE;
IMPORT JAVA.FX.STAGE.STAGE;

IMPORT JAVA.IO.IOEXCEPTION;

PUBLIC CLASS LOGIN_PAGE EXTENDS APPLICATION {
    @Override
    PUBLIC VOID START(STAGE STAGE) THROWS IOEXCEPTION {
        FXMLLOADER FXMLLOADER = NEW
        FXMLLOADER(CAFE.CLASS.GETRESOURCE("LOGIN-VIEW.FXML"));
        SCENE SCENE = NEW SCENE(FXMLLOADER.LOAD());
        STAGE.SETMAXIMIZED(FALSE);
        STAGE.SETRESIZABLE(FALSE);
        STAGE.SETTITLE("CAFE MANAGEMENT ADMIN LOGIN");
        STAGE.SETSCENE(SCENE);
        STAGE.SHOW();
    }
    PUBLIC STATIC VOID MAIN(STRING[] ARGS) {
        LAUNCH();
    }
}
```

□ **FXML FILE** ADMIN-VIEW.FXML

```
<?XML VERSION="1.0" ENCODING="UTF-8"?>

<?IMPORT JAVA.FX.SCENE.CONTROL.BUTTON?>
<?IMPORT JAVA.FX.SCENE.CONTROL.HYPERLINK?>
<?IMPORT JAVA.FX.SCENE.CONTROL.LABEL?>
<?IMPORT JAVA.FX.SCENE.CONTROL.PASSWORDFIELD?>
<?IMPORT JAVA.FX.SCENE.CONTROL.TEXTFIELD?>
```

CAFE MANAGEMENT SYSTEM

```
<?IMPORT JAVAFX.SCENE.EFFECT.COLORADJUST?>
<?IMPORT JAVAFX.SCENE.IMAGE.IMAGE?>
<?IMPORT JAVAFX.SCENE.IMAGE.IMAGEVIEW?>
<?IMPORT JAVAFX.SCENE.LAYOUT.PANE?>
<?IMPORT JAVAFX.SCENE.TEXT.FONT?>

<PANE MAXHEIGHT="566.0" MAXWIDTH="695.0" MINHEIGHT="-INFINITY"
MINWIDTH="-INFINITY" PREFHEIGHT="367.0" PREFWIDTH="654.0"
XMLNS="HTTP://JAVAFX.COM/JAVAFX/22" XMLNS:FX="HTTP://JAVAFX.COM/FXML/1"
FX:CONTROLLER="ORG.EXAMPLE.CAFE_MANAGEMENT.LOGIN_CONTROLLER">
  <CHILDREN>
    <IMAGEVIEW FITHEIGHT="368.0" FITWIDTH="655.0" PICKONBOUNDS="TRUE"
PRESERVERATIO="TRUE">
      <EFFECT>
        <COLORADJUST BRIGHTNESS="-0.1" />
      </EFFECT>
      <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/BACK5.JPEG" />
      </IMAGE>
    </IMAGEVIEW>
    <IMAGEVIEW FITHEIGHT="92.0" FITWIDTH="92.0" PICKONBOUNDS="TRUE"
PRESERVERATIO="TRUE">
      <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/LOGO1.PNG" />
      </IMAGE>
    </IMAGEVIEW>
    <PANE FX:ID="LOGINPANE" LAYOUTX="119.0" LAYOUTY="145.0"
PREFHEIGHT="211.0" PREFWIDTH="236.0">
      <CHILDREN>
        <LABEL LAYOUTX="19.0" LAYOUTY="6.0" TEXT="USERNAME">
          <FONT>
            <FONT NAME="ARIAL BOLD" SIZE="12.0" />
          </FONT>
        </LABEL>
        <TEXTFIELD FX:ID="USERNAME" LAYOUTX="18.0" LAYOUTY="20.0"
PREFHEIGHT="15.0" PREFWIDTH="200.0" STYLE="-FX-BORDER-COLOR: BLACK; -
FX-BACKGROUND-COLOR: #FFFFFF56; -FX-BORDER-WIDTH: 2PX;">
```


CAFE MANAGEMENT SYSTEM

```
<FONT>
  <FONT NAME="ARIAL" SIZE="13.0" />
</FONT>
</TEXTFIELD>
<LABEL FX:ID="PASS_LAB" LAYOUTX="19.0" LAYOUTY="66.0"
TEXT="PASSWORD">
  <FONT>
    <FONT NAME="ARIAL BOLD" SIZE="12.0" />
  </FONT>
</LABEL>
<TEXTFIELD FX:ID="MAIL" LAYOUTX="19.0" LAYOUTY="81.0"
PREFHEIGHT="15.0" PREFWIDTH="200.0" STYLE="-FX-BORDER-COLOR: BLACK; -
FX-BACKGROUND-COLOR: #FFFFFF56; -FX-BORDER-WIDTH: 2PX;" VISIBLE="FALSE">
  <FONT>
    <FONT NAME="ARIAL" SIZE="13.0" />
  </FONT>
</TEXTFIELD>
<PASSWORDFIELD FX:ID="PASS" LAYOUTX="19.0" LAYOUTY="81.0"
PREFHEIGHT="15.0" PREFWIDTH="200.0" STYLE="-FX-BACKGROUND-COLOR:
#FFFFFF56; -FX-BORDER-COLOR: BLACK; -FX-BORDER-WIDTH: 2PX;">
  <FONT>
    <FONT NAME="ARIAL" SIZE="13.0" />
  </FONT>
</PASSWORDFIELD>
<BUTTON FX:ID="SIGNIN" LAYOUTX="19.0" LAYOUTY="133.0"
MNEMONICPARSING="FALSE" ONACTION="#SIGNIN_ACTION" PREFHEIGHT="32.0"
PREFWIDTH="200.0" STYLE="-FX-BORDER-COLOR: BLACK; -FX-BACKGROUND-
COLOR: LINEAR-GRADIENT(FROM 0.0% 21.7666% TO 100.0% 59.306%, #BFF6FF
0.0%, #57ADBE 55.2573%, #57ADBE 100.0%); -FX-BORDER-WIDTH: 2PX;"
TEXT="SIGN IN">
  <FONT>
    <FONT NAME="ARIAL BOLD" SIZE="17.0" />
  </FONT>
</BUTTON>
<HYPERLINK FX:ID="FORGOT_TASK" LAYOUTX="65.0" LAYOUTY="185.0"
ONACTION="#FORGOT" TEXT="TRY WITH EMAIL ?" />
</CHILDREN>
```

```
</PANE>
<LABEL LAYOUTX="209.0" LAYOUTY="54.0" TEXT="ADMIN">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="35.0" />
  </FONT>
</LABEL>
<LABEL LAYOUTX="225.0" LAYOUTY="90.0" TEXT="LOGIN">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="30.0" />
  </FONT>
</LABEL>
<IMAGEVIEW FITHEIGHT="92.0" FITWIDTH="109.0" LAYOUTX="131.0"
LAYOUTY="32.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE">
  <IMAGE>
    <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/ADMINICON.PNG"
/>
  </IMAGE>
</IMAGEVIEW>
</CHILDREN>
</PANE>
```

❑ COMMON CONTROLLER FILE FOR STAFF & ADMIN LOGIN PAGE LOGIN-VIEW.FXML

```
PACKAGE ORG.EXAMPLE.CAFE_MANAGEMENT;

IMPORT JAVA.FX.EVENT.ACTIONEVENT;
IMPORT JAVA.FX.FXML.FXML;
IMPORT JAVA.FX.FXML.FXMLLOADER;
IMPORT JAVA.FX.SCENE.PARENT;
IMPORT JAVA.FX.SCENE.CONTROL.BUTTON;
IMPORT JAVA.FX.SCENE.LAYOUT.ANCHORPANE;
IMPORT JAVA.FX.SCENE.LAYOUT.BORDERPANE;
IMPORT JAVA.FX.SCENE.LAYOUT.PANE;

IMPORT JAVA.IO.IOEXCEPTION;

PUBLIC CLASS ADMINCONTROLLER {
```

```
@FXML
PRIVATE BORDERPANE BP;

@FXML
VOID ADD_ACTION(ACTIONEVENT EVENT) {
    PAGES("ADD_ITEM_PAGE");
}

@FXML
VOID DELETE_ACTION(ACTIONEVENT EVENT) {
    PAGES("DELETE_ITEM_PAGE");
}

@FXML
VOID EDIT_ACTION(ACTIONEVENT EVENT) {
    PAGES("EDIT_ITEM_PAGE");
}

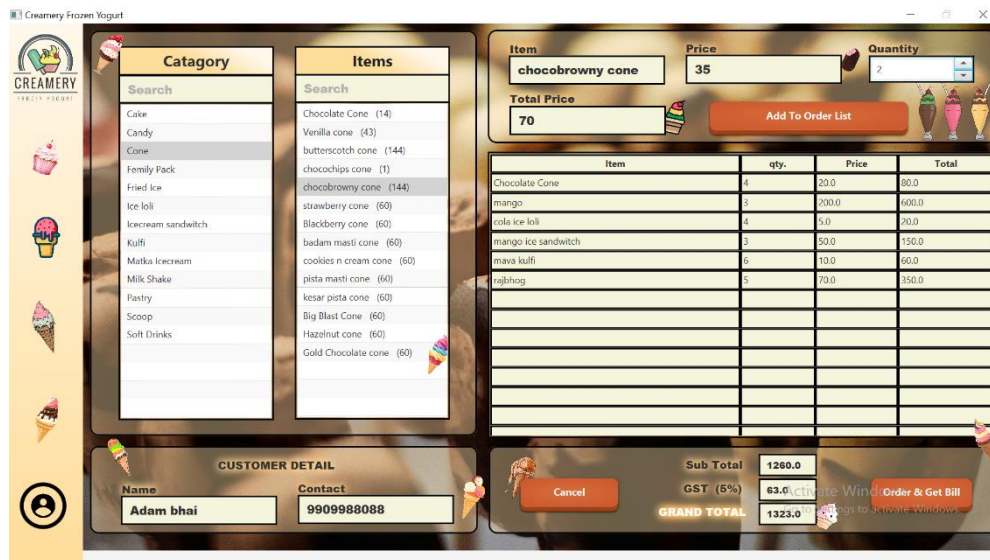
@FXML
VOID STOCK_ACTION(ACTIONEVENT EVENT) {
    PAGES("STOCK_MANAGE_PAGE");
}

PRIVATE VOID PAGES(String PAGE) {
    PARENT ROOT = NULL;
    TRY {
        ROOT = FXMLLOADER.LOAD(GETCLASS().GETRESOURCE(PAGE+".FXML"));
    } CATCH (IOException E) {
        THROW NEW RuntimeException(E);
    }
    BP.SETCENTER(ROOT);
}

@FXML
VOID EXIT_ACTION(ACTIONEVENT EVENT){
}
}
```

CAFE MANAGEMENT SYSTEM

ORDER PAGE :



□ **MAIN JAVA FILE** CAFÉ.JAVA
PACKAGE ORG.EXAMPLE.CAFE_MANAGEMENT;

```
IMPORT JAVA.FX.APPLICATION.APPLICATION;  
IMPORT JAVA.FX.FXML.FXMLLOADER;  
IMPORT JAVA.FX.SCENE.SCENE;  
IMPORT JAVA.FX.STAGE.STAGE;
```

```
IMPORT JAVA.IO.IOEXCEPTION;
```

```
PUBLIC CLASS CAFE EXTENDS APPLICATION {  
    @Override  
    PUBLIC VOID START(STAGE STAGE) {
```

```
        FXMLLOADER FXMLLOADER = NEW  
        FXMLLOADER(CAFE.CLASS.GETRESOURCE("CAFE-VIEW.FXML"));  
        SCENE SCENE = NULL;  
        TRY {  
            SCENE = NEW SCENE(FXMLLOADER.LOAD());  
//        STAGE.SETFULLSCREEN(TRUE);  
            STAGE.SETMAXIMIZED(TRUE);  
            STAGE.SETTITLE("CAFE MANAGEMENT SYSTEM");  
            STAGE.SETSCENE(SCENE);
```

```
        STAGE.SHOW();
    } CATCH (IOException E) {
        SYSTEM.OUT.PRINTLN(E.TOSTRING());
    }
}

PUBLIC STATIC VOID MAIN(STRING[] ARGS) {
    LAUNCH();
}
}
```

□ **FXML FILE** CAFÉ-VIEW.FXML

```
<?XML VERSION="1.0" ENCODING="UTF-8"?>

<?IMPORT JAVAFX.SCENE.CONTROL.BUTTON?>
<?IMPORT JAVAFX.SCENE.CONTROL.LABEL?>
<?IMPORT JAVAFX.SCENE.CONTROL.LISTVIEW?>
<?IMPORT JAVAFX.SCENE.CONTROL.SPINNER?>
<?IMPORT JAVAFX.SCENE.CONTROL.TABLECOLUMN?>
<?IMPORT JAVAFX.SCENE.CONTROL.TABLEVIEW?>
<?IMPORT JAVAFX.SCENE.CONTROL.TEXTFIELD?>
<?IMPORT JAVAFX.SCENE.EFFECT.DROPSHADOW?>
<?IMPORT JAVAFX.SCENE.IMAGE.IMAGE?>
<?IMPORT JAVAFX.SCENE.IMAGE.IMAGEVIEW?>
<?IMPORT JAVAFX.SCENE.LAYOUT.BORDERPANE?>
<?IMPORT JAVAFX.SCENE.LAYOUT.PANE?>
<?IMPORT JAVAFX.SCENE.PAINT.COLOR?>
<?IMPORT JAVAFX.SCENE.TEXT.FONT?>

<BORDERPANE MAXHEIGHT="-INFINITY" MAXWIDTH="-INFINITY" MINHEIGHT="-INFINITY" MINWIDTH="-INFINITY" PREFHEIGHT="678.0" PREFWIDTH="1292.0"
STYLESHEETS="@CSS/STYLE.CSS" XMLNS="HTTP://JAVAFX.COM/JAVAFX/22"
XMLNS:FX="HTTP://JAVAFX.COM/FXML/1"
FX:CONTROLLER="ORG.EXAMPLE.CAFE_MANAGEMENT.CAFECONTROLLER">
    <CENTER>
        <PANE PREFHEIGHT="685.0" PREFWIDTH="1275.0"
BORDERPANE.ALIGNMENT="CENTER">
```

CAFE MANAGEMENT SYSTEM

```
<CHILDREN>
  <IMAGEVIEW FITHEIGHT="679.0" FITWIDTH="1197.0"
PICKONBOUNDS="TRUE">
    <IMAGE>
      <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/BACK6.JPG" />
    </IMAGE>
  </IMAGEVIEW>
  <PANE ID="CONTAINER" LAYOUTX="9.0" LAYOUTY="9.0"
PREFHEIGHT="522.0" PREFWIDTH="499.0" STYLESHEETS="@CSS/STYLE.CSS">
    <CHILDREN>
      <LABEL ALIGNMENT="CENTER" LAYOUTX="37.0" LAYOUTY="20.0"
PREFHEIGHT="38.0" PREFWIDTH="200.0" STYLE="-FX-BORDER-COLOR: BLACK; -FX-
BORDER-WIDTH: 2PX; -FX-BACKGROUND-COLOR: LINEAR-GRADIENT(FROM 74.4479%
0.0% TO 63.7224% 100.0%, #FFF8EB 0.0%, #FFDD9A 100.0%);"
TEXT="CATAGORY">
        <FONT>
          <FONT NAME="SYSTEM BOLD" SIZE="20.0" />
        </FONT>
      </LABEL>
      <LABEL ALIGNMENT="CENTER" LAYOUTX="264.0" LAYOUTY="20.0"
PREFHEIGHT="38.0" PREFWIDTH="200.0" STYLE="-FX-BORDER-COLOR: BLACK; -FX-
BORDER-WIDTH: 2PX; -FX-BACKGROUND-COLOR: LINEAR-GRADIENT(FROM 74.4479%
0.0% TO 63.7224% 100.0%, #FFF8EB 0.0%, #FFDD9A 100.0%);" TEXT="ITEMS"
TEXTFILL="#1F1F1F">
        <FONT>
          <FONT NAME="SYSTEM BOLD" SIZE="20.0" />
        </FONT>
      </LABEL>
      <TEXTFIELD ID="TEXTFIELDS" FX:ID="CATAGORY_SEARCH"
LAYOUTX="37.0" LAYOUTY="57.0" PREFHEIGHT="25.0" PREFWIDTH="200.0"
PROMPTTEXT="SEARCH">
        <FONT>
          <FONT NAME="ARIAL BLACK" SIZE="15.0" />
        </FONT>
      </TEXTFIELD>
```

CAFE MANAGEMENT SYSTEM

```
<ListView fx:id="CATAGORY_LIST" layoutX="37.0" layoutY="92.0"
PREFHEIGHT="410.0" PREFWIDTH="200.0" style="-fx-border-color: BLACK; -
FX-BORDER-WIDTH: 2PX; -FX-BACKGROUND-COLOR: #FFE1AD69;" />
    <TextField id="TEXTFIELDS" fx:id="ITEM_SEARCH" layoutX="264.0"
LAYOUTY="56.0" PREFWIDTH="200.0" PROMPTTEXT="SEARCH">
        <Font>
            <Font name="ARIAL BLACK" size="15.0" />
        </Font>
    </TextField>
    <ListView fx:id="ITEM_LIST" layoutX="264.0" layoutY="91.0"
PREFHEIGHT="410.0" PREFWIDTH="200.0" style="-fx-border-color: BLACK; -
FX-BORDER-WIDTH: 2PX; -FX-BACKGROUND-COLOR: #FFE1AD69;" />
        <ImageView fitHeight="60.0" fitWidth="60.0" layoutX="-6.0"
LAYOUTY="-1.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="31.0">
            <Image>
                <Image
URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE1.PNG" />
            </Image>
        </ImageView>
        <ImageView fitHeight="60.0" fitWidth="60.0" layoutX="418.0"
LAYOUTY="388.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="24.8">
            <Image>
                <Image
URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE2.PNG" />
            </Image>
        </ImageView>
    </CHILDREN>
</PANE>
<PANE ID="CONTAINER" layoutX="522.0" layoutY="8.0"
PREFHEIGHT="146.0" PREFWIDTH="656.0">
    <CHILDREN>
        <ImageView fitHeight="237.0" fitWidth="107.0" layoutX="547.0"
LAYOUTY="63.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE">
            <Image>
```

CAFE MANAGEMENT SYSTEM

```
<IMAGE URL="FILE:/D:/JAVAFOX/CAFE_MANAGEMENT/IMG/CUP4.PNG"
/>
</IMAGE>
</ImageView>
<ImageView FITHEIGHT="47.0" FITWIDTH="30.0" LAYOUTX="453.0"
LAYOUTY="21.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="18.0">
<IMAGE>
<IMAGE
URL="FILE:/D:/JAVAFOX/CAFE_MANAGEMENT/IMG/CANDY1.PNG" />
</IMAGE>
</ImageView>
<ImageView FITHEIGHT="45.0" FITWIDTH="56.0" LAYOUTX="219.0"
LAYOUTY="89.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="12.0">
<IMAGE>
<IMAGE URL="FILE:/D:/JAVAFOX/CAFE_MANAGEMENT/IMG/CUP2.PNG"
/>
</IMAGE>
</ImageView>
<LABEL LAYOUTX="28.0" LAYOUTY="14.0" TEXT="ITEM">
<FONT>
<FONT NAME="ARIAL BLACK" SIZE="14.0" />
</FONT>
<EFFECT>
<DROPSHADOW HEIGHT="33.65" RADIUS="15.594999999999999"
SPREAD="0.71" WIDTH="30.73">
<COLOR>
<COLOR RED="1.0" GREEN="0.81666666626930237"
BLUE="0.56000000023841858" OPACITY="0.7620305418968201" />
</COLOR>
</DROPSHADOW>
</EFFECT>
</LABEL>
<TEXTFIELD ID="TEXTFIELDS" FX:ID="ITEM_NAME" EDITABLE="FALSE"
FOCUS TRAVERSABLE="FALSE" LAYOUTX="27.0" LAYOUTY="33.0"
PROMPTTEXT="XXX">
```


CAFE MANAGEMENT SYSTEM

```
<FONT>
  <FONT NAME="ARIAL BLACK" SIZE="15.0" />
</FONT></TEXTFIELD>
<LABEL LAYOUTX="255.0" LAYOUTY="13.0" TEXT="PRICE">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="14.0" />
  </FONT>
  <EFFECT>
    <DROPSHADOW HEIGHT="33.65" RADIUS="15.594999999999999"
SPREAD="0.71" WIDTH="30.73">
      <COLOR>
        <COLOR RED="1.0" GREEN="0.8166666626930237"
BLUE="0.5600000023841858" OPACITY="0.7620305418968201" />
      </COLOR>
    </DROPSHADOW>
  </EFFECT>
</LABEL>
<TEXTFIELD ID="TEXTFIELDS" FX:ID="ITEM_PRICE" EDITABLE="FALSE"
FOCUS TRAVERSABLE="FALSE" LAYOUTX="255.0" LAYOUTY="32.0"
PROMPTTEXT="00">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="15.0" />
  </FONT></TEXTFIELD>
<LABEL LAYOUTX="490.0" LAYOUTY="13.0" TEXT="QUANTITY">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="14.0" />
  </FONT>
  <EFFECT>
    <DROPSHADOW HEIGHT="33.65" RADIUS="15.594999999999999"
SPREAD="0.71" WIDTH="30.73">
      <COLOR>
        <COLOR RED="1.0" GREEN="0.8166666626930237"
BLUE="0.5600000023841858" OPACITY="0.7620305418968201" />
      </COLOR>
    </DROPSHADOW>
  </EFFECT>
</LABEL>
```

CAFE MANAGEMENT SYSTEM

```
<SPINNER ID="TEXTFIELDS" FX:ID="ITEM_QTY" LAYOUTX="491.0"
LAYOUTY="33.0" PREFHEIGHT="35.0" PREFWIDTH="136.0" />
<LABEL LAYOUTX="28.0" LAYOUTY="78.0" TEXT="TOTAL PRICE">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="14.0" />
  </FONT>
  <EFFECT>
    <DROPSHADOW HEIGHT="33.65" RADIUS="15.594999999999999"
SPREAD="0.71" WIDTH="30.73">
      <COLOR>
        <COLOR RED="1.0" GREEN="0.8166666626930237"
BLUE="0.5600000023841858" OPACITY="0.7620305418968201" />
      </COLOR>
    </DROPSHADOW>
  </EFFECT>
</LABEL>
<TEXTFIELD ID="TEXTFIELDS" FX:ID="TOTAL_PRICE" EDITABLE="FALSE"
FOCUS TRAVERSABLE="FALSE" LAYOUTX="28.0" LAYOUTY="98.0"
PROMPTTEXT="00">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="15.0" />
  </FONT></TEXTFIELD>
<BUTTON ID="BTN" LAYOUTX="286.0" LAYOUTY="93.0"
MNEMONICPARSING="FALSE" ONACTION="#ADDTOLIST_ACTION"
PREFHEIGHT="32.0" PREFWIDTH="255.0" TEXT="ADD TO ORDER LIST"
TEXTFILL="WHITE">
  <FONT>
    <FONT NAME="SYSTEM BOLD" SIZE="14.0" />
  </FONT>
</BUTTON>
</CHILDREN>
</PANE>
<TABLEVIEW FX:ID="TAB" LAYOUTX="522.0" LAYOUTY="165.0"
PREFHEIGHT="369.0" PREFWIDTH="657.0" STYLE="-FX-BORDER-COLOR: BLACK; -
FX-BORDER-WIDTH: 2PX; -FX-BACKGROUND-COLOR: #FFE1AD69;">
  <COLUMNS>
```

CAFE MANAGEMENT SYSTEM

```
<TABLECOLUMN ID="TEXTFIELDS" FX:ID="TAB_ITEM" PREFWIDTH="322.0"
RESIZABLE="FALSE" TEXT="ITEM" />
    <TABLECOLUMN ID="TEXTFIELDS" FX:ID="TAB_QTY"
PREFWIDTH="96.66656494140625" RESIZABLE="FALSE" TEXT="QTY." />
    <TABLECOLUMN ID="TEXTFIELDS" FX:ID="TAB_PRICE"
PREFWIDTH="106.66656494140625" RESIZABLE="FALSE" TEXT="PRICE" />
    <TABLECOLUMN ID="TEXTFIELDS" FX:ID="TAB_TOTAL"
PREFWIDTH="123.3333740234375" RESIZABLE="FALSE" TEXT="TOTAL" />
</COLUMNS>
</TABLEVIEW>
<PANE ID="CONTAINER" LAYOUTX="523.0" LAYOUTY="544.0"
PREFHEIGHT="113.0" PREFWIDTH="657.0">
    <CHILDREN>
        <IMAGEVIEW FITHEIGHT="73.0" FITWIDTH="36.0" LAYOUTX="23.0"
LAYOUTY="10.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="17.4">
            <IMAGE>
                <IMAGE
URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE14.PNG" />
            </IMAGE></IMAGEVIEW>
            <IMAGEVIEW FITHEIGHT="37.0" FITWIDTH="34.0" LAYOUTX="421.0"
LAYOUTY="71.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="15.9">
                <IMAGE>
                    <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CUP8.PNG"
/>
                </IMAGE>
            </IMAGEVIEW>
            <BUTTON ID="BTN" LAYOUTX="41.0" LAYOUTY="42.0"
MNEMONICPARSING="FALSE" ONACTION="#CANCEL_ACTION" PREFWIDTH="126.0"
TEXT="CANCEL" TEXTFILL="WHITE">
                <FONT>
                    <FONT NAME="SYSTEM BOLD" SIZE="14.0" />
                </FONT>
            </BUTTON>
```

CAFE MANAGEMENT SYSTEM

```
<BUTTON ID="BTN" LAYOUTX="493.0" LAYOUTY="42.0"
MNEMONICPARSING="FALSE" ONACTION="#GENERATE_INVOICE" TEXT="ORDER
&AMP; GET BILL" TEXTFILL="WHITE">
    <FONT>
        <FONT NAME="SYSTEM BOLD" SIZE="14.0" />
    </FONT>
</BUTTON>
<LABEL LAYOUTX="219.0" LAYOUTY="74.0" TEXT="GRAND TOTAL"
TEXTFILL="WHITE">
    <FONT>
        <FONT NAME="ARIAL BLACK" SIZE="14.0" />
    </FONT>
    <EFFECT>
        <DROPShadow HEIGHT="36.57" RADIUS="16.325" SPREAD="0.71"
WIDTH="30.73">
            <COLOR>
                <COLOR RED="0.9736841917037964"
GREEN="0.747042179107666" BLUE="0.42974334955215454"
OPACITY="0.9599999785423279" />
            </COLOR>
        </DROPShadow>
    </EFFECT>
</LABEL>
<TEXTFIELD ID="TEXTFIELDS" FX:ID="GRANDTOTAL_TXT"
EDITABLE="FALSE" FOCUS TRAVERSABLE="FALSE" LAYOUTX="348.0"
LAYOUTY="73.0" PREFHEIGHT="12.0" PREFWIDTH="75.0" PROMPTTEXT="00">
    <FONT>
        <FONT NAME="ARIAL BLACK" SIZE="12.0" />
    </FONT></TEXTFIELD>
<LABEL LAYOUTX="254.0" LAYOUTY="13.0" TEXT="SUB TOTAL">
    <FONT>
        <FONT NAME="ARIAL BLACK" SIZE="14.0" />
    </FONT>
    <EFFECT>
        <DROPShadow HEIGHT="33.65" RADIUS="15.594999999999999"
SPREAD="0.71" WIDTH="30.73">
            <COLOR>
```

CAFE MANAGEMENT SYSTEM

```
<COLOR RED="1.0" GREEN="0.8166666626930237"
BLUE="0.5600000023841858" OPACITY="0.7620305418968201" />
</COLOR>
</DROPSHADOW>
</EFFECT>
</LABEL>
<TEXTFIELD ID="TEXTFIELDS" FX:ID="GST_TXT" EDITABLE="FALSE"
FOCUS TRAVERSABLE="FALSE" LAYOUTX="348.0" LAYOUTY="42.0"
PREFHEIGHT="24.0" PREFWIDTH="75.0" PROMPTTEXT="00">
<FONT>
<FONT NAME="ARIAL BLACK" SIZE="12.0" />
</FONT>
</TEXTFIELD>
<LABEL LAYOUTX="251.0" LAYOUTY="44.0" TEXT="GST (5%)">
<FONT>
<FONT NAME="ARIAL BLACK" SIZE="14.0" />
</FONT>
<EFFECT>
<DROPSHADOW HEIGHT="33.65" RADIUS="15.594999999999999"
SPREAD="0.71" WIDTH="30.73">
<COLOR>
<COLOR RED="1.0" GREEN="0.8166666626930237"
BLUE="0.5600000023841858" OPACITY="0.7620305418968201" />
</COLOR>
</DROPSHADOW>
</EFFECT>
</LABEL>
<TEXTFIELD ID="TEXTFIELDS" FX:ID="SUBTOTAL_TXT" EDITABLE="FALSE"
FOCUS TRAVERSABLE="FALSE" LAYOUTX="348.0" LAYOUTY="10.0"
PREFHEIGHT="15.0" PREFWIDTH="75.0" PROMPTTEXT="00">
<FONT>
<FONT NAME="ARIAL BLACK" SIZE="12.0" />
</FONT>
</TEXTFIELD>
</CHILDREN>
</PANE>
```

CAFE MANAGEMENT SYSTEM

```
<IMAGEVIEW FITHEIGHT="67.0" FITWIDTH="65.0" LAYOUTX="1129.0"
LAYOUTY="503.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE" ROTATE="-
20.0">
    <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE6.PNG"
/>
    </IMAGE>
</IMAGEVIEW>
<PANE ID="CONTAINER" LAYOUTX="9.0" LAYOUTY="544.0"
PREFHEIGHT="113.0" PREFWIDTH="500.0">
    <CHILDREN>
        <LABEL LAYOUTX="41.0" LAYOUTY="45.0" TEXT="NAME">
            <FONT>
                <FONT NAME="ARIAL BLACK" SIZE="14.0" />
            </FONT>
            <EFFECT>
                <DROPSHADOW HEIGHT="33.65" RADIUS="15.594999999999999"
SPREAD="0.71" WIDTH="30.73">
                    <COLOR>
                        <COLOR RED="1.0" GREEN="0.8166666626930237"
BLUE="0.56000000023841858" OPACITY="0.7620305418968201" />
                    </COLOR>
                </DROPSHADOW>
            </EFFECT>
        </LABEL>
        <TEXTFIELD ID="TEXTFIELDS" FX:ID="CUSTOMER_NAME_TXT"
FOCUS TRAVERSABLE="FALSE" LAYOUTX="40.0" LAYOUTY="64.0"
PROMPTTEXT="CUSTOMER NAME">
            <FONT>
                <FONT NAME="ARIAL BLACK" SIZE="15.0" />
            </FONT>
        </TEXTFIELD>
        <LABEL LAYOUTX="268.0" LAYOUTY="44.0" TEXT="CONTACT">
            <FONT>
                <FONT NAME="ARIAL BLACK" SIZE="14.0" />
            </FONT>
            <EFFECT>
```

CAFE MANAGEMENT SYSTEM

```
<DROPSHADOW HEIGHT="33.65" RADIUS="15.594999999999999"
SPREAD="0.71" WIDTH="30.73">
  <COLOR>
    <COLOR RED="1.0" GREEN="0.8166666626930237"
BLUE="0.5600000023841858" OPACITY="0.7620305418968201" />
  </COLOR>
</DROPSHADOW>
</EFFECT>
</LABEL>
<TEXTFIELD ID="TEXTFIELDS" FX:ID="CUSTOMER_CONTACT_TXT"
FOCUS TRAVERSABLE="FALSE" LAYOUTX="268.0" LAYOUTY="63.0"
PROMPTTEXT="10 DIGIT NUMBER">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="15.0" />
  </FONT>
</TEXTFIELD>
<LABEL LAYOUTX="165.0" LAYOUTY="14.0" TEXT="CUSTOMER
DETAIL">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="14.0" />
  </FONT>
  <EFFECT>
    <DROPSHADOW HEIGHT="33.65" RADIUS="15.594999999999999"
SPREAD="0.71" WIDTH="30.73">
      <COLOR>
        <COLOR RED="1.0" GREEN="0.8166666626930237"
BLUE="0.5600000023841858" OPACITY="0.7620305418968201" />
      </COLOR>
    </DROPSHADOW>
  </EFFECT>
</LABEL>
<IMAGEVIEW FITHEIGHT="63.0" FITWIDTH="36.0" LAYOUTX="24.0"
LAYOUTY="-17.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE" ROTATE="-
25.9">
  <IMAGE>
    <IMAGE
URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE5.PNG" />
```

CAFE MANAGEMENT SYSTEM

```
</IMAGE>
</IMAGEVIEW>
<IMAGEVIEW FITHEIGHT="63.0" FITWIDTH="36.0" LAYOUTX="476.0"
LAYOUTY="35.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="22.0">
    <IMAGE>
        <IMAGE
URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE9.PNG" />
    </IMAGE>
</IMAGEVIEW>
</CHILDREN>
</PANE>
</CHILDREN>
</PANE>
</CENTER>
<LEFT>
    <PANE PREFHEIGHT="792.0" PREFWIDTH="95.0" STYLE="-FX-BACKGROUND-
COLOR: LINEAR-GRADIENT(FROM 74.4479% 0.0% TO 63.7224% 100.0%, #FFF8EB
0.0%, #FFDD9A 100.0%);" BORDERPANE.ALIGNMENT="CENTER">
        <CHILDREN>
            <BUTTON LAYOUTX="14.0" LAYOUTY="591.0" MNEMONICPARSING="FALSE"
ONACTION="#LOGIN_BTN" PREFHEIGHT="60.0" PREFWIDTH="60.0" STYLE="-FX-
BORDER-COLOR: BLACK; -FX-BACKGROUND-COLOR: TRANSPERANT; -FX-BORDER-
WIDTH: 5PX; -FX-BORDER-RADIUS: 50%;">
                <FONT>
                    <FONT NAME="ARIAL BLACK" SIZE="14.0" />
                </FONT>
                <GRAPHIC>
                    <IMAGEVIEW FITHEIGHT="36.0" FITWIDTH="31.0"
PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE">
                        <IMAGE>
                            <IMAGE
URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/ADMIN.PNG" />
                        </IMAGE>
                    </IMAGEVIEW>
                </GRAPHIC>
            </BUTTON>
```


CAFE MANAGEMENT SYSTEM

```
<ImageView FITHEIGHT="75.0" FITWIDTH="36.0" LAYOUTX="30.0"
LAYOUTY="249.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE">
    <Image>
        <Image URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CUP5.PNG" />
    </Image>
</ImageView>
<ImageView FITHEIGHT="69.0" FITWIDTH="70.0" LAYOUTX="14.0"
LAYOUTY="476.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="20.3">
    <Image>
        <Image URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE4.PNG"
/>
    </Image>
</ImageView>
<ImageView FITHEIGHT="75.0" FITWIDTH="36.0" LAYOUTX="30.0"
LAYOUTY="354.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE" ROTATE="-
18.4">
    <Image>
        <Image URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE13.PNG"
/>
    </Image>
</ImageView>
<ImageView FITHEIGHT="75.0" FITWIDTH="36.0" LAYOUTX="30.0"
LAYOUTY="147.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="17.4">
    <Image>
        <Image URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CUP6.PNG" />
    </Image>
</ImageView>
<ImageView FITHEIGHT="108.0" FITWIDTH="106.0" LAYOUTX="-6.0"
LAYOUTY="4.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE">
    <Image>
        <Image URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/LOGO1.PNG"
/>
    </Image>
</ImageView>
</CHILDREN>
```

```
</PANE>
</LEFT>
</BORDERPANE>
```

□ **CONTROLLER FILE** CAFECONTROLLER.JAVA

```
PACKAGE ORG.EXAMPLE.CAFE_MANAGEMENT;

IMPORT COM.ITEXTPDF.IO.IMAGE.IMAGEData;
IMPORT COM.ITEXTPDF.IO.IMAGE.IMAGEDataFactory;
IMPORT COM.ITEXTPDF.KERNEL.GEOM.PAGESize;
IMPORT COM.ITEXTPDF.KERNEL.PDF.PDFDocument;

IMPORT COM.ALMASB.FXGL.ENTITY.ACTION.Action;
IMPORT COM.ALMASB.FXGL.TEXTURE.COLOREDTexture;
IMPORT COM.ITEXTPDF.KERNEL.PDF.PDFWriter;
IMPORT COM.ITEXTPDF.LAYOUT.DOCUMENT;
IMPORT COM.ITEXTPDF.LAYOUT.BORDERS.Border;
IMPORT COM.ITEXTPDF.LAYOUT.ELEMENT.CELL;
IMPORT COM.ITEXTPDF.LAYOUT.ELEMENT.IMAGE;
IMPORT COM.ITEXTPDF.LAYOUT.ELEMENT.PARAGRAPH;
IMPORT COM.ITEXTPDF.LAYOUT.ELEMENT.TABLE;
IMPORT COM.ITEXTPDF.LAYOUT.PROPERTIES.HORIZONTALALIGNMENT;
IMPORT COM.ITEXTPDF.LAYOUT.PROPERTIES.TEXTALIGNMENT;
IMPORT COM.ITEXTPDF.LAYOUT.PROPERTIES.VERTICALALIGNMENT;
IMPORT JAVA.FX.BEANS.VALUE.CHANGEListener;
IMPORT JAVA.FX.BEANS.VALUE.OBSERVABLEValue;
IMPORT JAVA.FX.COLLECTIONS.FXCOLLECTIONS;
IMPORT JAVA.FX.COLLECTIONS.OBSERVABLEList;
IMPORT JAVA.FX.EVENT.ACTIONEvent;
IMPORT JAVA.FX.EVENT.EVENTHandler;
IMPORT JAVA.FX.FXML.FXML;
IMPORT JAVA.FX.FXML.FXMLLoader;
IMPORT JAVA.FX.FXML.INITIALIZABLE;
IMPORT JAVA.FX.SCENE.PARENT;
IMPORT JAVA.FX.SCENE.SCENE;
IMPORT JAVA.FX.SCENE.CONTROL.*;
IMPORT JAVA.FX.SCENE.CONTROL.CELL.PROPERTYValueFactory;
```

CAFE MANAGEMENT SYSTEM

```
IMPORT JAVA.FX.SCENE.EFFECT.COLORADJUST;
IMPORT JAVA.FX.SCENE.INPUT.KEYEVENT;
IMPORT JAVA.FX.SCENE.LAYOUT.BACKGROUND;
IMPORT JAVA.FX.SCENE.PAINT.COLOR;
IMPORT JAVA.FX.STAGE.STAGE;
IMPORT KOTLIN.JVM.INTERNAL.REF;

IMPORT JAVA.IO.IOEXCEPTION;
IMPORT JAVA.NET.URL;
IMPORT JAVA.SQL.STATEMENT;
IMPORT JAVA.UUTIL.DATE;
IMPORT JAVA.UUTIL.RESOURCEBUNDLE;

PUBLIC CLASS CAFECONTROLLER IMPLEMENTS INITIALIZABLE {

    FUNCTIONS FUN = NEW FUNCTIONS();
    @FXML
    PRIVATE LISTVIEW<STRING> CATAGORY_LIST,ITEM_LIST;
    @FXML
    PRIVATE TEXTFIELD ITEM_NAME, ITEM_PRICE, TOTAL_PRICE, CATAGORY_SEARCH,
    ITEM_SEARCH, GRANDTOTAL_TXT, CUSTOMER_NAME_TXT,
    CUSTOMER_CONTACT_TXT, SUBTOTAL_TXT, GST_TXT;
    @FXML
    PRIVATE SPINNER<INTEGER> ITEM_QTY;
    //TABLE
    @FXML
    PRIVATE TABLEVIEW<ORDERTABLE> TAB;
    //COLUMNS
    @FXML
    PRIVATE TABLECOLUMN<ORDERTABLE, STRING> TAB_ITEM;
    @FXML
    PRIVATE TABLECOLUMN<ORDERTABLE, INTEGER> TAB_QTY;
    @FXML
    PRIVATE TABLECOLUMN<ORDERTABLE, DOUBLE> TAB_PRICE;
    @FXML
    PRIVATE TABLECOLUMN<ORDERTABLE, DOUBLE> TAB_TOTAL;
```

CAFE MANAGEMENT SYSTEM

```
PRIVATE STRING SEL_CATAGORY = NULL;
PRIVATE STRING SEL_ITEM = NULL;
//SET RANGE IN ITEM QUANTITY FIELD SPINNER 0-100
PRIVATE SPINNERVALUEFACTORY<INTEGER> STOCKSPINNER_VALUE = NEW
SPINNERVALUEFACTORY.INTEGERSPINNERVALUEFACTORY(0, 100, 0);
//ALERT BOX
PRIVATE ALERT ALERTBOX = NEW ALERT(ALERT.ALERTTYPE.INFORMATION);
//GRAND TOTAL VARIABLE
PRIVATE DOUBLE GRANDTOTAL=0, SUBTOTAL=0, GST=0;
@OVERRIDE
PUBLIC VOID INITIALIZE(URL URL, RESOURCEBUNDLE RESOURCEBUNDLE) {
    CATAGORY_LIST.SETITEMS(FUN.LOADCATAGORYLIST());

    //  LOAD DATA IN ITEMLIST LISTVIEW ON SELECTING CATAGORY

    CATAGORY_LIST.GETSELECTIONMODEL().SELECTEDITEMPROPERTY().ADDLISTENER(
    NEW CHANGELISTENER<STRING>() {
        @OVERRIDE
        PUBLIC VOID CHANGED(OBSERVABLEVALUE<? EXTENDS STRING>
        OBSERVABLEVALUE, STRING OLDVALUE, STRING NEWVALUE) {
            //STORE SELETED CATAGORY
            SEL_CATAGORY = NEWVALUE;
            //CHECKING SEL_CATAGORY IS NOT EMPTY
            IF(SEL_CATAGORY != NULL){
                //LOAD ITEM LIST IN ITEM_LIST LISTVIEW
                ITEM_LIST.SETITEMS(FUN.LOADITEMLIST(SEL_CATAGORY));
            }
        }
    });

    //FILL THE FIELDS WHEN SELECT THE ITEM IN ITEMLIST

    ITEM_LIST.GETSELECTIONMODEL().SELECTEDITEMPROPERTY().ADDLISTENER(NEW
    CHANGELISTENER<STRING>() {
        @OVERRIDE
        PUBLIC VOID CHANGED(OBSERVABLEVALUE<? EXTENDS STRING>
        OBSERVABLEVALUE, STRING OLDVALUE, STRING NEWVALUE) {
```

CAFE MANAGEMENT SYSTEM

```
SEL_ITEM = NEWVALUE;
STRING[] WORD = SEL_ITEM.SPLIT(" ");
SEL_ITEM = WORD[0];
IF(SEL_CATAGORY != NULL){
    FILLFIELDS(SEL_ITEM,SEL_CATAGORY);
}
}
});
```

```
//CALCULATE WHEN QUANTITY CHANGE
ITEM_QTY.VALUEPROPERTY().ADDLISTENER(NEW
CHANGELISTENER<INTEGER>() {
    @OVERRIDE
    PUBLIC VOID CHANGED(OBSERVABLEVALUE<? EXTENDS INTEGER>
OBSERVABLEVALUE, INTEGER INTEGER, INTEGER T1) {
        //IF ITEM_NAME TEXTFIELD IS FILL THEN ONLY THE QTY_ACTION FUNCTION
WILL CALL
        IF(!ITEM_NAME.GETTEXT().ISEMPTY()){
            QTY_ACTION(ITEM_QTY.GETVALUE());
        }
    }
});
```

```
//CATAGORY SEARCH ACTION
CATAGORY_SEARCH.SETONKEYTYPED(NEW EVENTHANDLER<KEYEVENT>() {
    @OVERRIDE
    PUBLIC VOID HANDLE(KEYEVENT KEYEVENT) {
        IF(!CATAGORY_SEARCH.GETTEXT().ISEMPTY()){
            CATAGORY_LIST.SETITEMS(FUN.CATAGORYSERACH(CATAGORY_SEARCH.GETTEXT()
));
        }
        ELSE{
            CATAGORY_LIST.SETITEMS(FUN.LOADCATAGORYLIST());
        }
    }
});
```

CAFE MANAGEMENT SYSTEM

```
    }
    });

    //ITEM SEARCH ACTION
    ITEM_SEARCH.setOnKeyTyped(new EventHandler<KeyEvent>() {
        @Override
        public void handle(KeyEvent keyEvent) {
            if(sel_catagory != null){
                item_list.setItems(fun.itemSerach(item_search.getText(),
sel_catagory));
            }
        }
    });

    //TABLE COLUMNS
    tab_item.setCellValueFactory(new
PropertyConnectionFactory<OrderTable, String>("NAME"));
    tab_qty.setCellValueFactory(new
PropertyConnectionFactory<OrderTable, Integer>("QTY"));
    tab_price.setCellValueFactory(new
PropertyConnectionFactory<OrderTable, Double>("PRICE"));
    tab_total.setCellValueFactory(new
PropertyConnectionFactory<OrderTable, Double>("TOTAL"));
}

//FILL FIELDS FUNCTION
private void fillFields(String item, String cat) {
    item_name.clear();
    item_price.clear();
    item_qty.setValueFactory(stockSpinner_value); // NOT WORK
    total_price.clear();

    ObservableList<ItemTable> list;
    list = fun.fillFields(item, cat);
    item_name.setText(list.get(0).getName());
    item_price.setText(list.get(0).getPrice() + "");
    item_qty.setValueFactory(stockSpinner_value);
}
```

CAFE MANAGEMENT SYSTEM

```
}

//CALCULATE TOTAL PRICE
PRIVATE VOID QTY_ACTION(INT QTY){
    INT SUM = INTEGER.PARSEINT(ITEM_PRICE.GETTEXT()) * QTY;
    TOTAL_PRICE.SETTEXT(SUM+"");
}

//ADD TO CARD ACTION
@FXML
PROTECTED VOID ADDTOLIST_ACTION(ACTIONEVENT E){
    //CHECK ITEM NAME FIELD IS NOT EMPTY
    IF(!ITEM_NAME.GETTEXT().ISEMPTY()) {
//        CHECK TOTAL PRICE FIELD IS NOT EMPTY
        IF(INTEGER.PARSEINT(TOTAL_PRICE.GETTEXT()) > 0) {
            //CHECK THE STOCK IS AVAILABLE

            IF(FUN.GET_ITEM_STOCK(ITEM_NAME.GETTEXT())>=ITEM_QTY.GETVALUE()) {
                ORDERTABLE ORDER = NEW ORDERTABLE(ITEM_NAME.GETTEXT(),
                DOUBLE.PARSEDDOUBLE(ITEM_PRICE.GETTEXT()),
                DOUBLE.PARSEDDOUBLE(TOTAL_PRICE.GETTEXT()), ITEM_QTY.GETVALUE());
                OBSERVABLELIST<ORDERTABLE> LIST = TAB.GETITEMS();
                LIST.ADD(ORDER);
                TAB.SETITEMS(LIST);

                SUBTOTAL += DOUBLE.PARSEDDOUBLE(TOTAL_PRICE.GETTEXT());
                SUBTOTAL_TXT.SETTEXT(STRING.VALUEOF(SUBTOTAL));
                SETGST();
                GST_TXT.SETTEXT(STRING.VALUEOF(GST));

                GRANDTOTAL = SUBTOTAL + GST;
                GRANDTOTAL_TXT.SETTEXT(STRING.VALUEOF(GRANDTOTAL));

                ITEM_NAME.CLEAR();
                ITEM_PRICE.CLEAR();
                TOTAL_PRICE.CLEAR();
                ITEM_LIST.GETSELECTIONMODEL().CLEARSELECTION();
            }
        }
    }
}
```

CAFE MANAGEMENT SYSTEM

```
        ITEM_QTY.GETVALUEFACTORY().SETVALUE(0);
    }ELSE {
        ALERTBOX.SETCONTENTTEXT("STOCK IS NOT MUTCH");
        ALERTBOX.SHOWANDWAIT();
    }
}ELSE{
    ALERTBOX.SETCONTENTTEXT("INCREASE QUANTITY");
    ALERTBOX.SHOWANDWAIT();
}
}ELSE{
    ALERTBOX.SETCONTENTTEXT("SELECT ITEM");
    ALERTBOX.SHOWANDWAIT();
}
}

//CANCEL ACTION
@FXML
PROTECTED VOID CANCEL_ACTION(ACTIONEVENT E){
    //STORE INDEX OF SELECTED ROW
    INT ROW = TAB.GETSELECTIONMODEL().GETSELECTEDINDEX();
    IF(ROW > -1){
        DOUBLE REM =
DOUBLE.PARSEDDOUBLE(STRING.VALUEOF(TAB.GETITEMS().GET(ROW).TOTAL));
        SUBTOTAL -= REM; //SUBTRACT ITEM PRICE FROM SUBTOTAL
        //RESET THE GRAND TOTAL
        SUBTOTAL_TXT.SETTEXT(STRING.VALUEOF(SUBTOTAL));
        SETGST();
        GST_TXT.SETTEXT(STRING.VALUEOF(GST));
        GRANDTOTAL = SUBTOTAL + GST;
        GRANDTOTAL_TXT.SETTEXT(STRING.VALUEOF(GRANDTOTAL));

        //RESTORE ITEM STOCK
        //
FUN.RESTORE_STOCK(STRING.VALUEOF(TAB.GETITEMS().GET(ROW).NAME),TAB.GETITEMS().GET(ROW).QTY);
        //REMOVE ROW FROM TABLE
        TAB.GETITEMS().REMOVE(ROW);
    }
}
```


CAFE MANAGEMENT SYSTEM

```
}ELSE{
    ALERTBOX.SETCONTENTTEXT("SELECT ITEM IN TABLE");
    ALERTBOX.SHOWANDWAIT();
}
}

//ADMIN LOGIN BUTTON
@FXML
PROTECTED VOID LOGIN_BTN(ACTIONEVENT E) THROWS IOEXCEPTION{
    //CHECK THE ORDER TABLE MUST BE EMPTY
    IF(TAB.GETITEMS().ISEMPTY()){
        FXMLLOADER LOGIN_FXML = NEW
FXMLLOADER(GETCLASS().GETRESOURCE("LOGIN-VIEW.FXML"));
        PARENT ROOT = LOGIN_FXML.LOAD();
        STAGE STAGE = NEW STAGE();
        STAGE.SETSCENE(NEW SCENE(ROOT));
        STAGE.SETTITLE("ADMIN LOGIN PAGE");
        STAGE.SETMAXIMIZED(FALSE);
        STAGE.SETRESIZABLE(FALSE);
        STAGE.SHOW();

        //RESET ALL FIELDS
        RESETALL();
    }
    ELSE{
        ALERTBOX.SETCONTENTTEXT("FINISH THE ORDER");
        ALERTBOX.SHOWANDWAIT();
    }
}

//ORDER & GETBILL BUTTON ACTION
@FXML
PROTECTED VOID GENERATE_INVOICE(ACTIONEVENT E){
    IF(!TAB.GETITEMS().ISEMPTY()) {
        //MINUS ORDERED ITEM STOCK
        FOR (ORDERTABLE ROW : TAB.GETITEMS()) {
            FUN.SUBTRACT_STOCK(ROW.GETNAME(), ROW.GETQTY());
        }
    }
}
```

CAFE MANAGEMENT SYSTEM

```
}

//-----
STRING PATH =
"D:\\JAVAFX\\CAFE_MANAGEMENT\\INVOICES\\INVOICE1.PDF";
TRY {
    //CREATE PDF
    PdfWRITER PDFWRITE = NEW PdfWRITER(PATH);

    PdfDOCUMENT PDFDOC = NEW PdfDOCUMENT(PDFWRITE);
    PDFDOC.SETDEFAULTPAGE_SIZE(PAGE_SIZE.A3);
    PDFDOC.ADDNEWPAGE(); //ADD NEW PAGE

    DOCUMENT DOC = NEW DOCUMENT(PDFDOC);

    //CREATE HEADER-----
    FLOAT HEADERWIDTH[] = {800F};
    TABLE HEADER = NEW TABLE(HEADERWIDTH);

    //SET LOGO
    STRING PATH_LOGO =
"D:/JAVAFX/CAFE_MANAGEMENT/IMG/LOGO1.PNG";
    IMAGE_DATA IMGD_LOGO = IMAGE_DATA_FACTORY.CREATE(PATH_LOGO);
    IMAGE IMG_LOGO = NEW IMAGE(IMGD_LOGO);
    IMG_LOGO.SETHEIGHT(108F);
    IMG_LOGO.SETWIDTH(106F);
    //ADD LOGO TO HEADER TABLE
    HEADER.ADDCELL(IMG_LOGO
        .SETHORIZONTALALIGNMENT(HORIZONTALALIGNMENT.CENTER)
        .SETBORDER(BORDER.NO_BORDER));

    //CREATE PARAGRAPH FOR "INVOICE" TEXT TO HEADER TABLE
    PARAGRAPH INVOICE_TEXT = NEW PARAGRAPH("INVOICE");
    INVOICE_TEXT.SETBOLD();
    INVOICE_TEXT.SETFONT_SIZE(30F);

    //ADD TO HEADER TABLE
```

CAFE MANAGEMENT SYSTEM

```
HEADER.ADDCELL(INVOICE_TEXT
    .SETVERTICALALIGNMENT(VERTICALALIGNMENT.MIDDLE)
    .SETTEXTALIGNMENT(TEXTALIGNMENT.CENTER)
    .SETBORDER(BORDER.NO_BORDER));

//CREATE PARAGRAPH FOR OWNER DETAIL
STRING OWNER_STR = "KHODA/OM\NPHONE. 2246460\NOPP. KAMLA BAG,
NEAR BOB BANK,\NPORBANDAR, GUJARAT - 360575";
PARAGRAPH OWNER_DETAIL = NEW PARAGRAPH(OWNER_STR);
OWNER_DETAIL.SETFONTsize(12F);
OWNER_DETAIL.SETTEXTALIGNMENT(TEXTALIGNMENT.RIGHT);

//ADD TO HEADER TABLE
HEADER.ADDCELL(OWNER_DETAIL
    .SETVERTICALALIGNMENT(VERTICALALIGNMENT.MIDDLE)
    .SETTEXTALIGNMENT(TEXTALIGNMENT.RIGHT)
    .SETBORDER(BORDER.NO_BORDER));

//CREATE CUSTOMER DETAIL -----
FLOAT CUSTOMERWIDT[] = {400F, 400F};
TABLE CUSTOMER_DETAIL = NEW TABLE(CUSTOMERWIDT);

//CUSTOMER HEADING
PARAGRAPH CUSTOMERHEAD = NEW PARAGRAPH("CUSTOMER DETAIL");
CUSTOMERHEAD.SETBOLD();
CUSTOMERHEAD.SETFONTsize(20F);

//ADD TO HEADER TABLE
CUSTOMER_DETAIL.ADDCELL(NEW
COM.ITEXTPDF.LAYOUT.ELEMENT.CELL(0, 2).ADD(CUSTOMERHEAD
    .SETVERTICALALIGNMENT(VERTICALALIGNMENT.MIDDLE)
    .SETTEXTALIGNMENT(TEXTALIGNMENT.CENTER)
    .SETBORDER(BORDER.NO_BORDER)));

//ADD CUSTOMER NAME & CONTACT
```

CAFE MANAGEMENT SYSTEM

```
        STRING CUSTOMER_NAME = "NAME - ANKNOWN CUSTOMER\n CONTACT -
NONE";
        IF(!CUSTOMER_CONTACT_TXT.GETTEXT().ISEMPTY()){
            CUSTOMER_NAME = "NAME - " + CUSTOMER_NAME_TXT.GETTEXT() + "\n
CONTACT - " + CUSTOMER_CONTACT_TXT.GETTEXT();
        }
        PARAGRAPH CUSTOMER_NAME_PAR = NEW
PARAGRAPH(CUSTOMER_NAME);
        CUSTOMER_NAME_PAR.SETFONTSIZE(12F);

        //ADD TO CUSTOMER TABLE
        CUSTOMER_DETAIL.ADDCELL(NEW
COM.ITEXTPDF.LAYOUT.ELEMENT.CELL(2, 0).ADD(CUSTOMER_NAME_PAR));

        //INVOICE NUMBER
        PARAGRAPH INVOICE_NUM = NEW PARAGRAPH("INVOICE No. - 001");
        //ADD TO CUSTOMER TABLE
        CUSTOMER_DETAIL.ADDCELL(NEW
COM.ITEXTPDF.LAYOUT.ELEMENT.CELL().ADD(INVOICE_NUM).
        SETTEXTALIGNMENT(TEXTALIGNMENT.RIGHT)
        .SETFONTSIZE(12F));

        //INVOICE DATE&TIME
        DATE DATE = NEW DATE();
        LONG DT = DATE.GETTIME();
        PARAGRAPH INVOICE_DATE = NEW PARAGRAPH(STRING.VALUEOF(DT));
        //ADD TO CUSTOMER TABLE
        CUSTOMER_DETAIL.ADDCELL(NEW CELL().ADD(INVOICE_DATE).
        SETTEXTALIGNMENT(TEXTALIGNMENT.RIGHT)
        .SETFONTSIZE(12F));

        //ADD ORDER TABLE-----
        FLOAT ORDERWIDTH[] = {200, 200, 200, 200};
        TABLE ORDERTABLE = NEW TABLE(ORDERWIDTH);

        FOR (TABLECOLUMN<ORDERTABLE, ?> COL : TAB.GETCOLUMNS()) {
```

CAFE MANAGEMENT SYSTEM

```
ORDERTABLE.ADDCELL(COL.GETTEXT());
}

FOR (ORDERTABLE ROW : TAB.GETITEMS()) {
    ORDERTABLE.ADDCELL(ROW.GETNAME());
    ORDERTABLE.ADDCELL(STRING.VALUEOF(ROW.GETQTY()));
    ORDERTABLE.ADDCELL(STRING.VALUEOF(ROW.GETPRICE()));
    ORDERTABLE.ADDCELL(STRING.VALUEOF(ROW.GETTOTAL()));
}

//TOTAL PRICE TABLE -----
FLOAT PRICEWIDTH[] = {800F};
//CREATE PRICE TABLE
TABLE PRICE_TABLE = NEW TABLE(PRICEWIDTH);

PRICE_TABLE.ADDCELL(NEW PARAGRAPH("SUBTOTAL - " + SUBTOTAL)
    .SETTEXTALIGNMENT(TEXTALIGNMENT.CENTER)
    .SETFONTSize(12F)
    .SETBORDER(BORDER.NO_BORDER));

//    SETGST();
PRICE_TABLE.ADDCELL(NEW PARAGRAPH("GST - " + GST)
    .SETTEXTALIGNMENT(TEXTALIGNMENT.CENTER)
    .SETFONTSize(12F)
    .SETBORDER(BORDER.NO_BORDER));

//    GRANDTOTAL = SUBTOTAL + GST;
PRICE_TABLE.ADDCELL(NEW PARAGRAPH("GRAND TOTAL - " +
GRANDTOTAL)
    .SETTEXTALIGNMENT(TEXTALIGNMENT.CENTER)
    .SETFONTSize(12F)
    .SETBORDER(BORDER.NO_BORDER));

//ADD HEADER TO PDF
DOC.ADD(HEADER);
//MAKE DISTANCE BETWEEN TABLES
DOC.ADD(NEW PARAGRAPH("\n"));
```

CAFE MANAGEMENT SYSTEM

```
//ADD CUSTOMER DETAIL TABLE TO PDF
DOC.ADD(CUSTOMER_DETAIL);
//MAKE DISTANCE BETWEEN TABLES
DOC.ADD(NEW PARAGRAPH("\n"));
//ADD ORDER TABLE
DOC.ADD(ORDERTABLE);
//MAKE DISTANCE BETWEEN TABLES
DOC.ADD(NEW PARAGRAPH("\n"));
//ADD PRICE TABLE TO PDF
DOC.ADD(PRICE_TABLE);

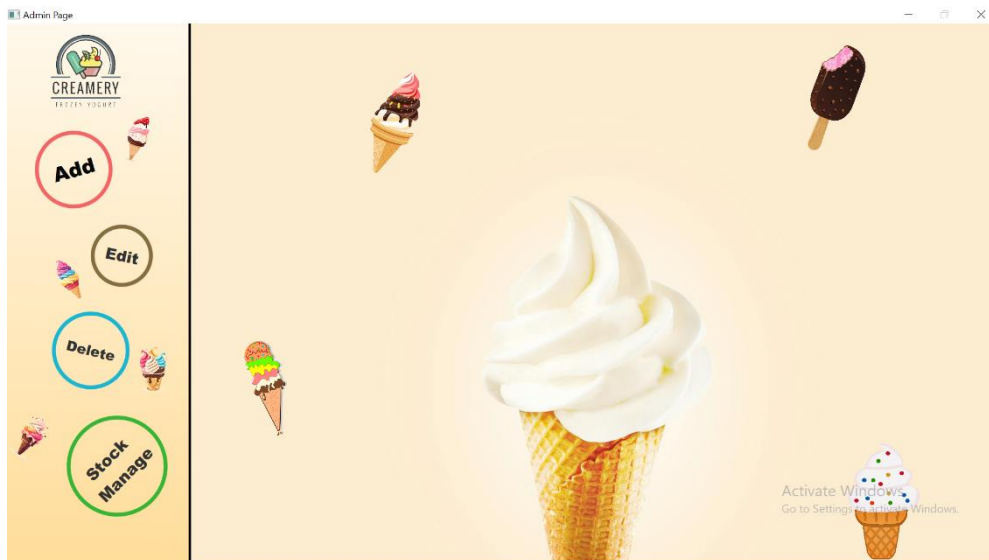
DOC.CLOSE();
ALERTBOX.SETCONTENTTEXT("ORDER PLACED");
ALERTBOX.SHOWANDWAIT();
//RESET ALL
RESETALL();
} CATCH (EXCEPTION A) {
    SYSTEM.OUT.PRINTLN("PDF ERROR");
}
}
ELSE{
    ALERTBOX.SETCONTENTTEXT("ADD ORDER IN LIST");
    ALERTBOX.SHOWANDWAIT();
}
}
//METHOD FOR SET GST AS PER SUBTOTAL
PRIVATE VOID SETGST(){
    GST = SUBTOTAL * 0.05;
}

//RESET ALL CAFE PAGE
PRIVATE VOID RESETALL(){
    TRY {
        CATAGORY_LIST.SETITEMS(FUN.LOADCATAGORYLIST());
        ITEM_LIST.GETITEMS().CLEAR();
        TAB.GETITEMS().CLEAR();
        CUSTOMER_NAME_TXT.CLEAR();
    }
```

CAFE MANAGEMENT SYSTEM

```
CUSTOMER_CONTACT_TXT.CLEAR();
SUBTOTAL_TXT.CLEAR();
GST_TXT.CLEAR();
GRANDTOTAL_TXT.CLEAR();
ITEM_NAME.CLEAR();
ITEM_PRICE.CLEAR();
}CATCH (EXCEPTION E){
    SYSTEM.OUT.PRINTLN("RESET ERROR : "+E.TOSTRING());
}
}
}
```

ADMIN PANEL :



☐ **MAIN JAVA FILE** ADMIN_PAGE.JAVA
PACKAGE ORG.EXAMPLE.CAFE_MANAGEMENT;

```
IMPORT JAVA.FX.APPLICATION.APPLICATION;  
IMPORT JAVA.FX.FXML.FXMLLOADER;  
IMPORT JAVA.FX.SCENE.SCENE;  
IMPORT JAVA.FX.STAGE.STAGE;
```

```
PUBLIC CLASS ADMIN_PAGE EXTENDS APPLICATION {
```

CAFE MANAGEMENT SYSTEM

```
@Override
PUBLIC VOID START(STAGE STAGE) THROWS EXCEPTION {
    FXMLLOADER FXMLLOADER = NEW
FXMLLOADER(CAFE.CLASS.GETRESOURCE("ADMIN-VIEW.FXML"));
    SCENE SCENE = NEW SCENE(FXMLLOADER.LOAD());
    STAGE.SETMAXIMIZED(TRUE);
    STAGE.SETTITLE("CAFE MANAGEMENT ADMIN PAGE");
    STAGE.SETSCENE(SCENE);
    STAGE.SHOW();
}
}
```

□ **FXML FILE** ADMIN-VIEW.FXML

```
<?XML VERSION="1.0" ENCODING="UTF-8"?>

<?IMPORT JAVA.FX.SCENE.CONTROL.BUTTON?>
<?IMPORT JAVA.FX.SCENE.IMAGE.IMAGE?>
<?IMPORT JAVA.FX.SCENE.IMAGE.IMAGEVIEW?>
<?IMPORT JAVA.FX.SCENE.LAYOUT.BORDERPANE?>
<?IMPORT JAVA.FX.SCENE.LAYOUT.PANE?>
<?IMPORT JAVA.FX.SCENE.SHAPE.LINE?>
<?IMPORT JAVA.FX.SCENE.TEXT.FONT?>

<BORDERPANE FX:ID="BP" MAXHEIGHT="-INFINITY" MAXWIDTH="-INFINITY"
MINHEIGHT="-INFINITY" MINWIDTH="-INFINITY" PREFHEIGHT="694.0"
PREFWIDTH="1290.0" STYLESHEETS="@CSS/STYLE.CSS"
XMLNS="HTTP://JAVAFX.COM/JAVAFX/22" XMLNS:FX="HTTP://JAVAFX.COM/FXML/1"
FX:CONTROLLER="ORG.EXAMPLE.CAFE_MANAGEMENT.ADMINCONTROLLER">
    <LEFT>
        <PANE ONDRAGDETECTED="#ADD_ACTION" PREFHEIGHT="694.0"
PREFWIDTH="237.0" STYLE="-FX-BACKGROUND-COLOR: LINEAR-GRADIENT(FROM
74.4479% 0.0% TO 63.7224% 100.0%, #FFF8EB 0.0%, #FFDD9A 100.0%);"
BORDERPANE.ALIGNMENT="CENTER">
            <CHILDREN>
                <BUTTON ID="ADD_BTN" LAYOUTX="36.0" LAYOUTY="138.0"
MNEMONICPARSING="FALSE" ONACTION="#ADD_ACTION" PREFHEIGHT="100.0"
PREFWIDTH="100.0" ROTATE="-15.9" TEXT="ADD" TEXTFILL="#090909">
```


CAFE MANAGEMENT SYSTEM

```
<FONT>
  <FONT NAME="ARIAL BLACK" SIZE="26.0" />
</FONT></BUTTON>
<BUTTON ID="EDIT_BTN" LAYOUTX="108.0" LAYOUTY="259.0"
MNEMONICPARSING="FALSE" ONACTION="#EDIT_ACTION" PREFHEIGHT="80.0"
PREFWIDTH="80.0" ROTATE="11.8" TEXT="EDIT">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="20.0" />
  </FONT></BUTTON>
<BUTTON ID="DEL_BTN" LAYOUTX="58.0" LAYOUTY="371.0"
MNEMONICPARSING="FALSE" ONACTION="#DELETE_ACTION" PREFHEIGHT="100.0"
PREFWIDTH="100.0" ROTATE="14.0" TEXT="DELETE">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="18.0" />
  </FONT></BUTTON>
<BUTTON ID="STOCK_BTN" FX:ID="STOCK_BTN" ALIGNMENT="CENTER"
LAYOUTX="77.0" LAYOUTY="505.0" MNEMONICPARSING="FALSE"
ONACTION="#STOCK_ACTION" PREFHEIGHT="130.0" PREFWIDTH="130.0"
ROTATE="-45.8" TEXT="STOCK MANAGE" TEXTALIGNMENT="CENTER"
WRAPTEXT="TRUE">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="21.0" />
  </FONT></BUTTON>
<IMAGEVIEW FITHEIGHT="115.0" FITWIDTH="118.0" LAYOUTX="44.0"
LAYOUTY="4.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE">
  <IMAGE>
    <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/LOGO1.PNG"
/>
  </IMAGE>
</IMAGEVIEW>
<IMAGEVIEW FITHEIGHT="71.0" FITWIDTH="63.0" LAYOUTX="137.0"
LAYOUTY="116.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="18.9">
  <IMAGE>
    <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE1.PNG"
/>
  </IMAGE>
```

CAFE MANAGEMENT SYSTEM

```
</ImageView>
<ImageView FITHEIGHT="71.0" FITWIDTH="63.0" LAYOUTX="49.0"
LAYOUTY="298.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE" ROTATE="-
30.1">
    <Image>
        <Image URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE2.PNG"
/>
    </Image>
</ImageView>
<ImageView FITHEIGHT="71.0" FITWIDTH="63.0" LAYOUTX="157.0"
LAYOUTY="414.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE">
    <Image>
        <Image URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CUP1.PNG" />
    </Image>
</ImageView>
<ImageView FITHEIGHT="71.0" FITWIDTH="63.0" LAYOUTX="-1.0"
LAYOUTY="500.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="34.2">
    <Image>
        <Image URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE3.PNG"
/>
    </Image>
</ImageView>
<Line ENDX="235.74136352539062" ENDY="694.6666259765625"
STARTX="235.40798950195312" STARTY="2.543131586207892E-6"
STROKEWIDTH="3.0" />
</CHILDREN>
</PANE>
</LEFT>
<CENTER>
    <PANE PREFHEIGHT="678.0" PREFWIDTH="1047.0"
BORDERPANE.ALIGNMENT="CENTER">
        <CHILDREN>
            <ImageView FITHEIGHT="694.0" FITWIDTH="1056.0"
PICKONBOUNDS="TRUE">
                <Image>
```

CAFE MANAGEMENT SYSTEM

```
<IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/BACK4.JPEG"
/>
</IMAGE>
</IMAGEVIEW>
<IMAGEVIEW FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="187.0"
LAYOUTY="53.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="21.3">
<IMAGE>
<IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE4.PNG"
/>
</IMAGE>
</IMAGEVIEW>
<IMAGEVIEW FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="63.0"
LAYOUTY="394.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE" ROTATE="-
14.6">
<IMAGE>
<IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE5.PNG"
/>
</IMAGE>
</IMAGEVIEW>
<IMAGEVIEW FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="847.0"
LAYOUTY="540.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE">
<IMAGE>
<IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CUP7.PNG" />
</IMAGE>
</IMAGEVIEW>
<IMAGEVIEW FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="789.0"
LAYOUTY="21.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="13.2">
<IMAGE>
<IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CANDY1.PNG"
/>
</IMAGE>
</IMAGEVIEW>
</CHILDREN></PANE>
</CENTER>
</BORDERPANE>
```

CAFE MANAGEMENT SYSTEM

□ **CONTROLLER FILE** ADMINCONTROLLER.JAVA

```
PACKAGE ORG.EXAMPLE.CAFE_MANAGEMENT;
```

```
IMPORT JAVA.FX.EVENT.ACTIONEVENT;  
IMPORT JAVA.FX.FXML.FXML;  
IMPORT JAVA.FX.FXML.FXMLLOADER;  
IMPORT JAVA.FX.SCENE.PARENT;  
IMPORT JAVA.FX.SCENE.CONTROL.BUTTON;  
IMPORT JAVA.FX.SCENE.LAYOUT.ANCHORPANE;  
IMPORT JAVA.FX.SCENE.LAYOUT.BORDERPANE;  
IMPORT JAVA.FX.SCENE.LAYOUT.PANE;
```

```
IMPORT JAVA.IO.IOEXCEPTION;
```

```
PUBLIC CLASS ADMINCONTROLLER {
```

```
    @FXML
```

```
    PRIVATE BORDERPANE BP;
```

```
    @FXML
```

```
    VOID ADD_ACTION(ACTIONEVENT EVENT) {  
        PAGES("ADD_ITEM_PAGE");  
    }
```

```
    @FXML
```

```
    VOID DELETE_ACTION(ACTIONEVENT EVENT) {  
        PAGES("DELETE_ITEM_PAGE");  
    }
```

```
    @FXML
```

```
    VOID EDIT_ACTION(ACTIONEVENT EVENT) {  
        PAGES("EDIT_ITEM_PAGE");  
    }
```

```
    @FXML
```

```
    VOID STOCK_ACTION(ACTIONEVENT EVENT) {
```

CAFE MANAGEMENT SYSTEM

```
PAGES("STOCK_MANAGE_PAGE");
}
PRIVATE VOID PAGES(STRING PAGE) {
    PARENT ROOT = NULL;
    TRY {
        ROOT = FXMLLOADER.LOAD(GETCLASS().GETRESOURCE(PAGE+".FXML"));
    } CATCH (IOEXCEPTION E) {
        THROW NEW RUNTIMEEXCEPTION(E);
    }
    BP.SETCENTER(ROOT);
}

@FXML
VOID EXIT_ACTION(ACTIONEVENT EVENT){

}
}
```

ADD ITEM :

The screenshot displays the 'Cafe Management ADMIN Page' with a sidebar containing icons for 'Add', 'Edit', 'Delete', and 'Stock Manage'. The main content area features an 'Add Item' form and a table of existing items.

Add Item Form:

- Enter Or Select Category:
- Item Name:
- Item Price:
- Number Of Dozen (12 Items):
-

Item List Table:

Item	Stock
Chocolate Cone	14
Vanilla cone	43
butterscotch cone	144
chocochips cone	1
chocobrownie cone	144
strawberry cone	60
Blackberry cone	60
badam masti cone	60
cookies n cream cone	60
pista masti cone	60
kesar pista cone	60
Big Blast Cone	60
Hazelnut cone	60
Gold Chocolate cone	60

CAFE MANAGEMENT SYSTEM

□ **FXML FILE** ADD_ITEM_PAGE.FXML

```
<?XML VERSION="1.0" ENCODING="UTF-8"?>

<?IMPORT JAVAFX.SCENE.CONTROL.BUTTON?>
<?IMPORT JAVAFX.SCENE.CONTROL.COMBOBOX?>
<?IMPORT JAVAFX.SCENE.CONTROL.LABEL?>
<?IMPORT JAVAFX.SCENE.CONTROL.SPINNER?>
<?IMPORT JAVAFX.SCENE.CONTROL.TABLECOLUMN?>
<?IMPORT JAVAFX.SCENE.CONTROL.TABLEVIEW?>
<?IMPORT JAVAFX.SCENE.CONTROL.TEXTFIELD?>
<?IMPORT JAVAFX.SCENE.IMAGE.IMAGE?>
<?IMPORT JAVAFX.SCENE.IMAGE.IMAGEVIEW?>
<?IMPORT JAVAFX.SCENE.LAYOUT.PANE?>
<?IMPORT JAVAFX.SCENE.TEXT.FONT?>

<PANE                                MAXHEIGHT="1.7976931348623157E308"
MAXWIDTH="1.7976931348623157E308" MINHEIGHT="-INFINITY" MINWIDTH="-
INFINITY" PREFHEIGHT="694.0" PREFWIDTH="1047.0" STYLE="-FX-BACKGROUND-
COLOR: WHITE; -FX-BORDER-COLOR: BLACK; -FX-BORDER-WIDTH: 3PX;"
STYLESHEETS="@CSS/STYLE.CSS"          XMLNS="HTTP://JAVAFX.COM/JAVAFX/22"
XMLNS:FX="HTTP://JAVAFX.COM/FXML/1"
FX:CONTROLLER="ORG.EXAMPLE.CAFE_MANAGEMENT.ADMINPAGESCONTROLLER">
  <CHILDREN>
    <IMAGEVIEW FITHEIGHT="694.0" FITWIDTH="1047.0" PICKONBOUNDS="TRUE">
      <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/BACK4.JPEG" />
      </IMAGE>
    </IMAGEVIEW>
    <LABEL ALIGNMENT="CENTER" LAYOUTX="50.0" LAYOUTY="50.0"
PREFHEIGHT="57.0" PREFWIDTH="220.0" STYLE="-FX-BORDER-COLOR: BLACK; -FX-
BORDER-WIDTH: 2PX;" TEXT="ADD ITEM">
      <FONT>
        <FONT NAME="ARIAL BLACK" SIZE="36.0" />
      </FONT>
    </LABEL>
```

CAFE MANAGEMENT SYSTEM

```
<ImageView FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="197.0"
LAYOUTY="63.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="21.3">
    <Image>
        <Image URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE4.PNG" />
    </Image>
</ImageView>

    <ImageView FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="73.0"
LAYOUTY="404.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE" ROTATE="-
14.6">
    <Image>
        <Image URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE5.PNG" />
    </Image>
</ImageView>

    <ImageView FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="836.0"
LAYOUTY="525.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE">
    <Image>
        <Image URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CUP7.PNG" />
    </Image>
</ImageView>

    <ImageView FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="789.0"
LAYOUTY="21.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="13.2">
    <Image>
        <Image URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CANDY1.PNG" />
    </Image>
</ImageView>

    <Pane ID="CONTAINER" LAYOUTX="50.0" LAYOUTY="130.0"
PREFHEIGHT="457.0" PREFWIDTH="284.0">
        <Children>
            <Label LAYOUTX="35.0" LAYOUTY="30.0" TEXT="ENTER OR SEECT
CATAGORY" />
            <ComboBox FX:ID="CATAGORY_TXT" EDITABLE="TRUE" LAYOUTX="35.0"
LAYOUTY="47.0" ONACTION="#CATAGORY_ACTION_1"
ONMOUSECLICKED="#CATAGORY_ACTION_1" PREFHEIGHT="40.0"
PREFWIDTH="220.0" PROMPTTEXT="CATAGORIES" STYLE="-FX-BORDER-COLOR:
BLACK; -FX-BACKGROUND-COLOR: #FFFFFFDF;" VISIBLERowCount="5" />
```

CAFE MANAGEMENT SYSTEM

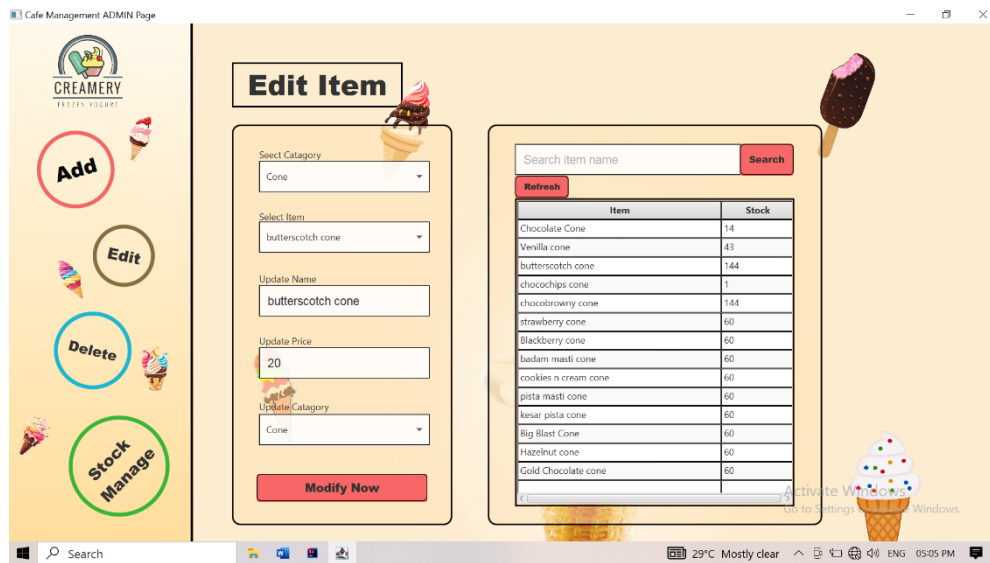
```
<LABEL LAYOUTX="35.0" LAYOUTY="116.0" TEXT="ITEM NAME" />
  <TEXTFIELD FX:ID="ITEMNAME_TXT" LAYOUTX="35.0" LAYOUTY="133.0"
PREFHEIGHT="40.0" PREFWIDTH="220.0" STYLE="-FX-BORDER-COLOR: BLACK; -FX-
BACKGROUND-COLOR: #FFFFFFDF;">
  <FONT>
    <FONT NAME="ARIAL" SIZE="15.0" />
  </FONT>
</TEXTFIELD>
<LABEL LAYOUTX="35.0" LAYOUTY="196.0" TEXT="ITEM PRICE" />
  <TEXTFIELD FX:ID="ITEMPRICE_TXT" LAYOUTX="35.0" LAYOUTY="213.0"
PREFHEIGHT="40.0" PREFWIDTH="220.0" STYLE="-FX-BORDER-COLOR: BLACK; -FX-
BACKGROUND-COLOR: #FFFFFFDF;">
  <FONT>
    <FONT NAME="ARIAL" SIZE="15.0" />
  </FONT>
</TEXTFIELD>
<LABEL LAYOUTX="35.0" LAYOUTY="286.0" TEXT="NUMBER OF DOZEN (12
ITEMS)" />
  <SPINNER FX:ID="STOCK_TXT" EDITABLE="TRUE" LAYOUTX="35.0"
LAYOUTY="303.0" PREFHEIGHT="40.0" PREFWIDTH="220.0" STYLE="-FX-BORDER-
COLOR: BLACK;" />
  <BUTTON LAYOUTX="35.0" LAYOUTY="385.0" MNEMONICPARSING="FALSE"
ONACTION="#INSERT_ACTION" PREFHEIGHT="34.0" PREFWIDTH="220.0" STYLE="-
FX-BACKGROUND-COLOR: #F86767; -FX-BORDER-COLOR: BLACK; -FX-BORDER-
RADIUS: 5PX;" TEXT="ADD NOW">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="15.0" />
  </FONT>
</BUTTON>
</CHILDREN>
</PANE>
  <PANE ID="CONTAINER" LAYOUTX="380.0" LAYOUTY="130.0"
PREFHEIGHT="516.0" PREFWIDTH="431.0">
  <CHILDREN>
    <TEXTFIELD FX:ID="SEARCH_TXT" LAYOUTX="35.0" LAYOUTY="25.0"
PREFHEIGHT="40.0" PREFWIDTH="291.0" PROMPTTEXT="SEARCH ITEM NAME"
STYLE="-FX-BORDER-COLOR: BLACK; -FX-BACKGROUND-COLOR: #FFFFFFDF;">
```


CAFE MANAGEMENT SYSTEM

```
<FONT>
  <FONT NAME="ARIAL" SIZE="15.0" />
</FONT>
</TEXTFIELD>
  <BUTTON LAYOUTX="325.0" LAYOUTY="25.0" MNEMONICPARSING="FALSE"
ONACTION="#SEARCH_ACTION" PREFHEIGHT="40.0" PREFWIDTH="69.0" STYLE="-
FX-BACKGROUND-COLOR: #F86767; -FX-BORDER-COLOR: BLACK; -FX-BORDER-
RADIUS: 5PX;" TEXT="SEARCH">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="12.0" />
  </FONT>
</BUTTON>
  <BUTTON FX:ID="REFRESH_BTN" DISABLE="TRUE" LAYOUTX="35.0"
LAYOUTY="66.0" MNEMONICPARSING="FALSE" ONACTION="#REFRESH"
PREFHEIGHT="28.0" PREFWIDTH="69.0" STYLE="-FX-BACKGROUND-COLOR:
#F86767; -FX-BORDER-COLOR: BLACK; -FX-BORDER-RADIUS: 5PX;"
TEXT="REFRESH">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="11.0" />
  </FONT>
</BUTTON>
  <TABLEVIEW FX:ID="TAB" LAYOUTX="35.0" LAYOUTY="95.0"
PREFHEIGHT="397.0" PREFWIDTH="360.0" STYLE="-FX-BORDER-COLOR: BLACK; -
FX-BORDER-WIDTH: 2PX; -FX-BACKGROUND-COLOR: #FFE1AD69;">
  <COLUMNS>
    <TABLECOLUMN FX:ID="COL_ITEM" PREFWIDTH="267.33331298828125"
STYLE="-FX-BORDER-COLOR: BLACK;" TEXT="ITEM" />
    <TABLECOLUMN FX:ID="COL_STOCK" PREFWIDTH="93.0" STYLE="-FX-
BORDER-COLOR: BLACK;" TEXT="STOCK" />
  </COLUMNS>
</TABLEVIEW>
</CHILDREN>
</PANE>
</CHILDREN>
</PANE>
```

CAFE MANAGEMENT SYSTEM

EDIT ITEM :



□ **FXML FILE** EDIT_ITEM_PAGE.FXML

```
<?XML VERSION="1.0" ENCODING="UTF-8"?>
```

```
<?IMPORT JAVA.FX.SCENE.CONTROL.BUTTON?>
```

```
<?IMPORT JAVA.FX.SCENE.CONTROL.COMBOBOX?>
```

```
<?IMPORT JAVA.FX.SCENE.CONTROL.LABEL?>
```

```
<?IMPORT JAVA.FX.SCENE.CONTROL.TABLECOLUMN?>
```

```
<?IMPORT JAVA.FX.SCENE.CONTROL.TABLEVIEW?>
```

```
<?IMPORT JAVA.FX.SCENE.CONTROL.TEXTFIELD?>
```

```
<?IMPORT JAVA.FX.SCENE.IMAGE.IMAGE?>
```

```
<?IMPORT JAVA.FX.SCENE.IMAGE.IMAGEVIEW?>
```

```
<?IMPORT JAVA.FX.SCENE.LAYOUT.PANE?>
```

```
<?IMPORT JAVA.FX.SCENE.TEXT.FONT?>
```

```
<PANE MAXHEIGHT="1.7976931348623157E308"
```

```
MAXWIDTH="1.7976931348623157E308" MINHEIGHT="-INFINITY" MINWIDTH="-INFINITY" PREFHEIGHT="694.0" PREFWIDTH="1047.0" STYLE="-FX-BACKGROUND-COLOR: WHITE; -FX-BORDER-COLOR: BLACK; -FX-BORDER-WIDTH: 3PX;"
```

```
STYLESHEETS="@CSS/STYLE.CSS" XMLNS="HTTP://JAVAFX.COM/JAVAFX/22"
```

```
XMLNS:FX="HTTP://JAVAFX.COM/FXML/1"
```

```
FX:CONTROLLER="ORG.EXAMPLE.CAFE_MANAGEMENT.ADMINPAGESCONTROLLER">
```

```
<CHILDREN>
```

```
<IMAGEVIEW FITHEIGHT="694.0" FITWIDTH="1047.0" PICKONBOUNDS="TRUE">
```

```
<IMAGE>
```

CAFE MANAGEMENT SYSTEM

```
<IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/BACK4.JPEG" />
</IMAGE>
</IMAGEVIEW>
<LABEL ALIGNMENT="CENTER" LAYOUTX="50.0" LAYOUTY="50.0"
PREFHEIGHT="40.0" PREFWIDTH="220.0" STYLE="-FX-BORDER-COLOR: BLACK; -FX-
BORDER-WIDTH: 2PX;" TEXT="EDIT ITEM">
    <FONT>
        <FONT NAME="ARIAL BLACK" SIZE="36.0" />
    </FONT>
</LABEL>
<IMAGEVIEW FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="197.0"
LAYOUTY="63.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="21.3">
    <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE4.PNG" />
    </IMAGE>
</IMAGEVIEW>
<IMAGEVIEW FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="73.0"
LAYOUTY="404.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE" ROTATE="-
14.6">
    <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE5.PNG" />
    </IMAGE>
</IMAGEVIEW>
<IMAGEVIEW FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="847.0"
LAYOUTY="524.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE">
    <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CUP7.PNG" />
    </IMAGE>
</IMAGEVIEW>
<IMAGEVIEW FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="799.0"
LAYOUTY="31.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="13.2">
    <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CANDY1.PNG" />
    </IMAGE>
</IMAGEVIEW>
```

CAFE MANAGEMENT SYSTEM

```
<PANE ID="CONTAINER" LAYOUTX="50.0" LAYOUTY="130.0"
PREFHEIGHT="516.0" PREFWIDTH="284.0">
  <CHILDREN>
    <LABEL LAYOUTX="35.0" LAYOUTY="30.0" TEXT="SEECT CATAGORY" />
    <COMBOBOX FX:ID="CATAGORY_TXT" LAYOUTX="35.0" LAYOUTY="47.0"
ONACTION="#CATAGORY_ACTION_2" PREFHEIGHT="40.0" PREFWIDTH="220.0"
PROMPTTEXT="CATAGORIES" STYLE="-FX-BORDER-COLOR: BLACK; -FX-
BACKGROUND-COLOR: #FFFFFFFDF;" />
    <TEXTFIELD FX:ID="NEWITEMNAME" LAYOUTX="35.0" LAYOUTY="207.0"
PREFHEIGHT="40.0" PREFWIDTH="220.0" STYLE="-FX-BORDER-COLOR: BLACK; -FX-
BACKGROUND-COLOR: #FFFFFFFDF;">
      <FONT>
        <FONT NAME="ARIAL" SIZE="15.0" />
      </FONT>
    </TEXTFIELD>
    <TEXTFIELD FX:ID="NEWITEMPRICE" LAYOUTX="35.0" LAYOUTY="287.0"
PREFHEIGHT="40.0" PREFWIDTH="220.0" STYLE="-FX-BORDER-COLOR: BLACK; -FX-
BACKGROUND-COLOR: #FFFFFFFDF;">
      <FONT>
        <FONT NAME="ARIAL" SIZE="15.0" />
      </FONT>
    </TEXTFIELD>
    <BUTTON LAYOUTX="32.0" LAYOUTY="450.0" MNEMONICPARSING="FALSE"
ONACTION="#EDIT_ACTION" PREFHEIGHT="34.0" PREFWIDTH="220.0" STYLE="-FX-
BACKGROUND-COLOR: #F86767; -FX-BORDER-COLOR: BLACK; -FX-BORDER-RADIUS:
5PX;" TEXT="MODIFY NOW">
      <FONT>
        <FONT NAME="ARIAL BLACK" SIZE="15.0" />
      </FONT>
    </BUTTON>
    <LABEL LAYOUTX="35.0" LAYOUTY="110.0" TEXT="SELECT ITEM" />
    <COMBOBOX FX:ID="ITEM_TXT" LAYOUTX="35.0" LAYOUTY="125.0"
ONACTION="#ITEM_ACTION" PREFHEIGHT="40.0" PREFWIDTH="220.0"
PROMPTTEXT="ITEMS" STYLE="-FX-BORDER-COLOR: BLACK; -FX-BACKGROUND-
COLOR: #FFFFFFFDF;" />
    <LABEL LAYOUTX="35.0" LAYOUTY="190.0" TEXT="UPDATE NAME" />
    <LABEL LAYOUTX="35.0" LAYOUTY="270.0" TEXT="UPDATE PRICE" />
```

CAFE MANAGEMENT SYSTEM

```
<LABEL LAYOUTX="35.0" LAYOUTY="355.0" TEXT="UPDATE CATAGORY" />
<COMBOBOX FX:ID="NEWITEMCATAGORY" LAYOUTX="35.0"
LAYOUTY="373.0" ONACTION="#CATAGORY_ACTION_1" PREFHEIGHT="40.0"
PREFWIDTH="220.0" PROMPTTEXT="CATAGORIES" STYLE="-FX-BORDER-COLOR:
BLACK; -FX-BACKGROUND-COLOR: #FFFFFFDF;" />
</CHILDREN>
</PANE>
<PANE ID="CONTAINER" LAYOUTX="380.0" LAYOUTY="130.0"
PREFHEIGHT="516.0" PREFWIDTH="431.0">
<CHILDREN>
<TEXTFIELD FX:ID="SEARCH_TXT" LAYOUTX="35.0" LAYOUTY="25.0"
PREFHEIGHT="40.0" PREFWIDTH="291.0" PROMPTTEXT="SEARCH ITEM NAME"
STYLE="-FX-BORDER-COLOR: BLACK; -FX-BACKGROUND-COLOR: #FFFFFFDF;">
<FONT>
<FONT NAME="ARIAL" SIZE="15.0" />
</FONT>
</TEXTFIELD>
<BUTTON LAYOUTX="325.0" LAYOUTY="25.0" MNEMONICPARSING="FALSE"
ONACTION="#SEARCH_ACTION" PREFHEIGHT="40.0" PREFWIDTH="69.0" STYLE="-
FX-BACKGROUND-COLOR: #F86767; -FX-BORDER-COLOR: BLACK; -FX-BORDER-
RADIUS: 5PX;" TEXT="SEARCH">
<FONT>
<FONT NAME="ARIAL BLACK" SIZE="12.0" />
</FONT>
</BUTTON>
<TABLEVIEW FX:ID="TAB" LAYOUTX="35.0" LAYOUTY="95.0"
PREFHEIGHT="397.0" PREFWIDTH="360.0" STYLE="-FX-BORDER-COLOR: BLACK; -
FX-BORDER-WIDTH: 2PX; -FX-BACKGROUND-COLOR: #FFE1AD69;">
<COLUMNS>
<TABLECOLUMN FX:ID="COL_ITEM" PREFWIDTH="262.6666564941406"
STYLE="-FX-BORDER-COLOR: BLACK;" TEXT="ITEM" />
<TABLECOLUMN FX:ID="COL_STOCK" PREFWIDTH="93.0" STYLE="-FX-
BORDER-COLOR: BLACK;" TEXT="STOCK" />
</COLUMNS>
</TABLEVIEW>
<BUTTON FX:ID="REFRESH_BTN" LAYOUTX="35.0" LAYOUTY="66.0"
MNEMONICPARSING="FALSE" ONACTION="#REFRESH" PREFHEIGHT="28.0"
```

CAFE MANAGEMENT SYSTEM

```
PREFWIDTH="69.0" STYLE="-FX-BACKGROUND-COLOR: #F86767; -FX-BORDER-COLOR: BLACK; -FX-BORDER-RADIUS: 5PX;" TEXT="REFRESH">
```

```
<FONT>
```

```
<FONT NAME="ARIAL BLACK" SIZE="11.0" />
```

```
</FONT>
```

```
</BUTTON>
```

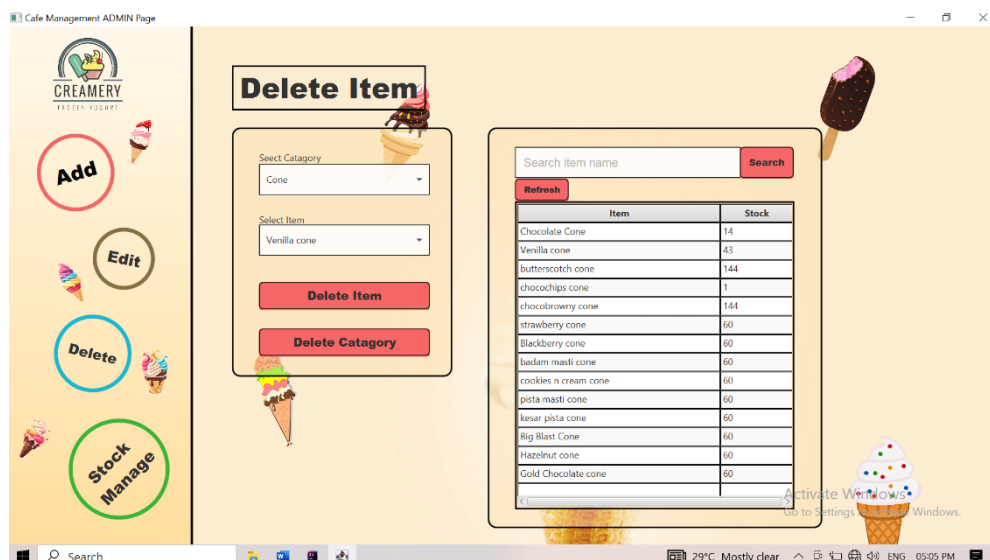
```
</CHILDREN>
```

```
</PANE>
```

```
</CHILDREN>
```

```
</PANE>
```

DELETE ITEM :



□ FXML FILE DELETE_ITEM_PAGE.FXML

```
<?XML VERSION="1.0" ENCODING="UTF-8"?>
```

```
<?IMPORT JAVA.FX.SCENE.CONTROL.BUTTON?>
```

```
<?IMPORT JAVA.FX.SCENE.CONTROL.COMBOBOX?>
```

```
<?IMPORT JAVA.FX.SCENE.CONTROL.LABEL?>
```

```
<?IMPORT JAVA.FX.SCENE.CONTROL.TABLECOLUMN?>
```

```
<?IMPORT JAVA.FX.SCENE.CONTROL.TABLEVIEW?>
```

```
<?IMPORT JAVA.FX.SCENE.CONTROL.TEXTFIELD?>
```

CAFE MANAGEMENT SYSTEM

```
<?IMPORT JAVA.FX.SCENE.IMAGE.IMAGE?>
<?IMPORT JAVA.FX.SCENE.IMAGE.IMAGEVIEW?>
<?IMPORT JAVA.FX.SCENE.LAYOUT.PANE?>
<?IMPORT JAVA.FX.SCENE.TEXT.FONT?>

<PANE MAXHEIGHT="1.7976931348623157E308"
MAXWIDTH="1.7976931348623157E308" MINHEIGHT="-INFINITY" MINWIDTH="-
INFINITY" PREFHEIGHT="694.0" PREFWIDTH="1047.0" STYLE="-FX-BACKGROUND-
COLOR: WHITE; -FX-BORDER-COLOR: BLACK; -FX-BORDER-WIDTH: 3PX;"
STYLESHEETS="@CSS/STYLE.CSS" XMLNS="HTTP://JAVAFX.COM/JAVAFX/22"
XMLNS:FX="HTTP://JAVAFX.COM/FXML/1"
FX:CONTROLLER="ORG.EXAMPLE.CAFE_MANAGEMENT.ADMINPAGESCONTROLLER">
  <CHILDREN>
    <IMAGEVIEW FITHEIGHT="694.0" FITWIDTH="1047.0" PICKONBOUNDS="TRUE">
      <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/BACK4.JPEG" />
      </IMAGE>
    </IMAGEVIEW>
    <IMAGEVIEW FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="197.0"
LAYOUTY="63.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="21.3">
      <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE4.PNG" />
      </IMAGE>
    </IMAGEVIEW>
    <IMAGEVIEW FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="73.0"
LAYOUTY="404.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE" ROTATE="-
14.6">
      <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE5.PNG" />
      </IMAGE>
    </IMAGEVIEW>
    <IMAGEVIEW FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="847.0"
LAYOUTY="527.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE">
      <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CUP7.PNG" />
      </IMAGE>
```

CAFE MANAGEMENT SYSTEM

```
</ImageView>
<ImageView FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="799.0"
LAYOUTY="31.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="13.2">
    <Image>
        <Image URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CANDY1.PNG" />
    </Image>
</ImageView>
<Label ALIGNMENT="CENTER" LAYOUTX="50.0" LAYOUTY="50.0"
PREFHEIGHT="58.0" PREFWIDTH="250.0" STYLE="-FX-BORDER-COLOR: BLACK; -FX-
BORDER-WIDTH: 2PX;" TEXT="DELETE ITEM">
    <Font>
        <Font NAME="ARIAL BLACK" SIZE="36.0" />
    </Font>
</Label>
<Pane ID="CONTAINER" LAYOUTX="50.0" LAYOUTY="130.0"
PREFHEIGHT="321.0" PREFWIDTH="284.0">
    <Children>
        <Label LAYOUTX="35.0" LAYOUTY="30.0" TEXT="SEECT CATAGORY" />
        <ComboBox FX:ID="CATAGORY_TXT" LAYOUTX="35.0" LAYOUTY="47.0"
ONACTION="#CATAGORY_ACTION_2" PREFHEIGHT="40.0" PREFWIDTH="220.0"
PROMPTTEXT="CATAGORIES" STYLE="-FX-BORDER-COLOR: BLACK; -FX-
BACKGROUND-COLOR: #FFFFFFDF;" />
        <Button LAYOUTX="35.0" LAYOUTY="199.0" MNEMONICPARSING="FALSE"
ONACTION="#DELITEM_ACTION" PREFHEIGHT="34.0" PREFWIDTH="220.0"
STYLE="-FX-BACKGROUND-COLOR: #F86767; -FX-BORDER-COLOR: BLACK; -FX-
BORDER-RADIUS: 5PX;" TEXT="DELETE ITEM">
            <Font>
                <Font NAME="ARIAL BLACK" SIZE="15.0" />
            </Font>
        </Button>
        <Label LAYOUTX="35.0" LAYOUTY="110.0" TEXT="SELECT ITEM" />
        <ComboBox FX:ID="ITEM_TXT" LAYOUTX="35.0" LAYOUTY="125.0"
PREFHEIGHT="40.0" PREFWIDTH="220.0" PROMPTTEXT="ITEMS" STYLE="-FX-
BORDER-COLOR: BLACK; -FX-BACKGROUND-COLOR: #FFFFFFDF;" />
        <Button LAYOUTX="35.0" LAYOUTY="259.0" MNEMONICPARSING="FALSE"
ONACTION="#DELCATAGORY_ACTION" PREFHEIGHT="34.0" PREFWIDTH="220.0"
```


CAFE MANAGEMENT SYSTEM

```
STYLE="-FX-BACKGROUND-COLOR: #F86767; -FX-BORDER-COLOR: BLACK; -FX-
BORDER-RADIUS: 5PX;" TEXT="DELETE CATAGORY">
    <FONT>
        <FONT NAME="ARIAL BLACK" SIZE="15.0" />
    </FONT>
</BUTTON>
</CHILDREN>
</PANE>
<PANE ID="CONTAINER" LAYOUTX="380.0" LAYOUTY="130.0"
PREFHEIGHT="516.0" PREFWIDTH="431.0">
    <CHILDREN>
        <TEXTFIELD FX:ID="SEARCH_TXT" LAYOUTX="35.0" LAYOUTY="25.0"
PREFHEIGHT="40.0" PREFWIDTH="291.0" PROMPTTEXT="SEARCH ITEM NAME"
STYLE="-FX-BORDER-COLOR: BLACK; -FX-BACKGROUND-COLOR: #FFFFFFDF;">
            <FONT>
                <FONT NAME="ARIAL" SIZE="15.0" />
            </FONT>
        </TEXTFIELD>
        <BUTTON LAYOUTX="325.0" LAYOUTY="25.0" MNEMONICPARSING="FALSE"
ONACTION="#SEARCH_ACTION" PREFHEIGHT="40.0" PREFWIDTH="69.0" STYLE="-
FX-BACKGROUND-COLOR: #F86767; -FX-BORDER-COLOR: BLACK; -FX-BORDER-
RADIUS: 5PX;" TEXT="SEARCH">
            <FONT>
                <FONT NAME="ARIAL BLACK" SIZE="12.0" />
            </FONT>
        </BUTTON>
        <TABLEVIEW FX:ID="TAB" LAYOUTX="35.0" LAYOUTY="95.0"
PREFHEIGHT="397.0" PREFWIDTH="360.0" STYLE="-FX-BORDER-COLOR: BLACK; -
FX-BORDER-WIDTH: 2PX; -FX-BACKGROUND-COLOR: #FFE1AD69;">
            <COLUMNS>
                <TABLECOLUMN FX:ID="COL_ITEM" PREFWIDTH="260.66668701171875"
STYLE="-FX-BORDER-COLOR: BLACK;" TEXT="ITEM" />
                <TABLECOLUMN FX:ID="COL_STOCK" PREFWIDTH="93.0" STYLE="-FX-
BORDER-COLOR: BLACK;" TEXT="STOCK" />
            </COLUMNS>
        </TABLEVIEW>
```

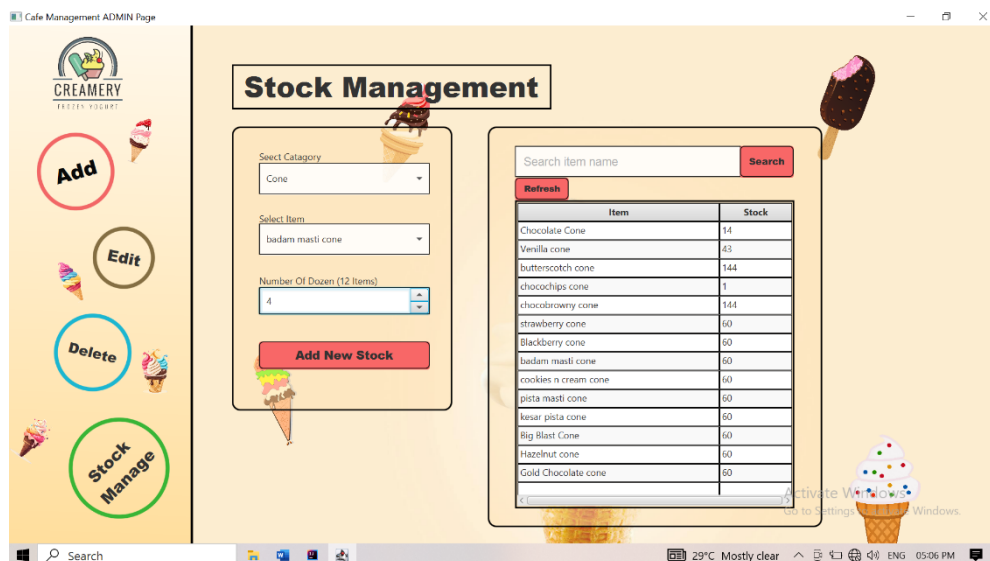
CAFE MANAGEMENT SYSTEM

```

<BUTTON FX:ID="REFRESH_BTN" LAYOUTX="35.0" LAYOUTY="66.0"
MNEMONICPARSING="FALSE" ONACTION="#REFRESH" PEFHEIGHT="28.0"
PEFWIDTH="69.0" STYLE="-FX-BACKGROUND-COLOR: #f86767; -FX-BORDER-
COLOR: BLACK; -FX-BORDER-RADIUS: 5PX;" TEXT="REFRESH">
    <FONT>
        <FONT NAME="ARIAL BLACK" SIZE="11.0" />
    </FONT>
</BUTTON>
</CHILDREN>
</PANE>
</CHILDREN>
</PANE>

```

STOCK MANAGE :



□ **FXML FILE** STOCK_MANAGE_PAGE.FXML
 <?XML VERSION="1.0" ENCODING="UTF-8"?>

```

<?IMPORT JAVA.FX.SCENE.CONTROL.BUTTON?>
<?IMPORT JAVA.FX.SCENE.CONTROL.COMBOBOX?>
<?IMPORT JAVA.FX.SCENE.CONTROL.LABEL?>
<?IMPORT JAVA.FX.SCENE.CONTROL.SPINNER?>

```

CAFE MANAGEMENT SYSTEM

```
<?IMPORT JAVAFX.SCENE.CONTROL.TABLECOLUMN?>
<?IMPORT JAVAFX.SCENE.CONTROL.TABLEVIEW?>
<?IMPORT JAVAFX.SCENE.CONTROL.TEXTFIELD?>
<?IMPORT JAVAFX.SCENE.IMAGE.IMAGE?>
<?IMPORT JAVAFX.SCENE.IMAGE.IMAGEVIEW?>
<?IMPORT JAVAFX.SCENE.LAYOUT.PANE?>
<?IMPORT JAVAFX.SCENE.TEXT.FONT?>

<PANE MAXHEIGHT="1.7976931348623157E308"
MAXWIDTH="1.7976931348623157E308" MINHEIGHT="-INFINITY" MINWIDTH="-
INFINITY" PREFHEIGHT="694.0" PREFWIDTH="1047.0" STYLE="-FX-BACKGROUND-
COLOR: WHITE; -FX-BORDER-COLOR: BLACK; -FX-BORDER-WIDTH: 3PX;"
STYLESHEETS="@CSS/STYLE.CSS" XMLNS="HTTP://JAVAFX.COM/JAVAFX/22"
XMLNS:FX="HTTP://JAVAFX.COM/FXML/1"
FX:CONTROLLER="ORG.EXAMPLE.CAFE_MANAGEMENT.ADMINPAGESCONTROLLER">
  <CHILDREN>
    <IMAGEVIEW FITHEIGHT="694.0" FITWIDTH="1047.0" PICKONBOUNDS="TRUE">
      <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/BACK4.JPEG" />
      </IMAGE>
    </IMAGEVIEW>
    <IMAGEVIEW FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="197.0"
LAYOUTY="63.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="21.3">
      <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE4.PNG" />
      </IMAGE>
    </IMAGEVIEW>
    <IMAGEVIEW FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="73.0"
LAYOUTY="404.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE" ROTATE="-
14.6">
      <IMAGE>
        <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CONE5.PNG" />
      </IMAGE>
    </IMAGEVIEW>
    <IMAGEVIEW FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="846.0"
LAYOUTY="527.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE">
```

CAFE MANAGEMENT SYSTEM

```
<IMAGE>
  <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CUP7.PNG" />
</IMAGE>
</IMAGEVIEW>
<IMAGEVIEW FITHEIGHT="150.0" FITWIDTH="200.0" LAYOUTX="799.0"
LAYOUTY="31.0" PICKONBOUNDS="TRUE" PRESERVERATIO="TRUE"
ROTATE="13.2">
  <IMAGE>
    <IMAGE URL="FILE:/D:/JAVAFX/CAFE_MANAGEMENT/IMG/CANDY1.PNG" />
  </IMAGE>
</IMAGEVIEW>
<LABEL ALIGNMENT="CENTER" LAYOUTX="50.0" LAYOUTY="50.0"
PREFHEIGHT="58.0" PREFWIDTH="412.0" STYLE="-FX-BORDER-COLOR: BLACK; -FX-
BORDER-WIDTH: 2PX;" TEXT="STOCK MANAGEMENT">
  <FONT>
    <FONT NAME="ARIAL BLACK" SIZE="36.0" />
  </FONT>
</LABEL>
<PANE ID="CONTAINER" LAYOUTX="50.0" LAYOUTY="130.0"
PREFHEIGHT="366.0" PREFWIDTH="284.0">
  <CHILDREN>
    <LABEL LAYOUTX="35.0" LAYOUTY="30.0" TEXT="SEECT CATAGORY" />
    <COMBOBOX FX:ID="CATAGORY_TXT" LAYOUTX="35.0" LAYOUTY="47.0"
ONACTION="#CATAGORY_ACTION_2" PREFHEIGHT="40.0" PREFWIDTH="220.0"
PROMPTTEXT="CATAGORIES" STYLE="-FX-BORDER-COLOR: BLACK; -FX-
BACKGROUND-COLOR: #FFFFFFDF;" />
    <BUTTON LAYOUTX="35.0" LAYOUTY="277.0" MNEMONICPARSING="FALSE"
ONACTION="#STOCK_ACTION" PREFHEIGHT="34.0" PREFWIDTH="220.0" STYLE="-
FX-BACKGROUND-COLOR: #F86767; -FX-BORDER-COLOR: BLACK; -FX-BORDER-
RADIUS: 5PX;" TEXT="ADD NEW STOCK">
      <FONT>
        <FONT NAME="ARIAL BLACK" SIZE="15.0" />
      </FONT>
    </BUTTON>
    <LABEL LAYOUTX="35.0" LAYOUTY="110.0" TEXT="SELECT ITEM" />
```

CAFE MANAGEMENT SYSTEM

```
<COMBOBOX FX:ID="ITEM_TXT" LAYOUTX="35.0" LAYOUTY="125.0"
PREFHEIGHT="40.0" PREFWIDTH="220.0" PROMPTTEXT="ITEMS" STYLE="-FX-
BORDER-COLOR: BLACK; -FX-BACKGROUND-COLOR: #FFFFFFDF;" />
  <LABEL LAYOUTX="35.0" LAYOUTY="190.0" TEXT="NUMBER OF DOZEN (12
ITEMS)" />
  <SPINNER FX:ID="STOCK_TXT" LAYOUTX="35.0" LAYOUTY="207.0"
PREFHEIGHT="35.0" PREFWIDTH="220.0" STYLE="-FX-BORDER-COLOR: BLACK;" />
</CHILDREN>
</PANE>
<PANE ID="CONTAINER" LAYOUTX="380.0" LAYOUTY="130.0"
PREFHEIGHT="516.0" PREFWIDTH="431.0">
  <CHILDREN>
    <TEXTFIELD FX:ID="SEARCH_TXT" LAYOUTX="35.0" LAYOUTY="25.0"
PREFHEIGHT="40.0" PREFWIDTH="291.0" PROMPTTEXT="SEARCH ITEM NAME"
STYLE="-FX-BORDER-COLOR: BLACK; -FX-BACKGROUND-COLOR: #FFFFFFDF;">
      <FONT>
        <FONT NAME="ARIAL" SIZE="15.0" />
      </FONT>
    </TEXTFIELD>
    <BUTTON LAYOUTX="325.0" LAYOUTY="25.0" MNEMONICPARSING="FALSE"
ONACTION="#SEARCH_ACTION" PREFHEIGHT="40.0" PREFWIDTH="69.0" STYLE="-
FX-BACKGROUND-COLOR: #F86767; -FX-BORDER-COLOR: BLACK; -FX-BORDER-
RADIUS: 5PX;" TEXT="SEARCH">
      <FONT>
        <FONT NAME="ARIAL BLACK" SIZE="12.0" />
      </FONT>
    </BUTTON>
    <TABLEVIEW FX:ID="TAB" LAYOUTX="35.0" LAYOUTY="95.0"
PREFHEIGHT="397.0" PREFWIDTH="360.0" STYLE="-FX-BORDER-COLOR: BLACK; -
FX-BORDER-WIDTH: 2PX; -FX-BACKGROUND-COLOR: #FFE1AD69;">
      <COLUMNS>
        <TABLECOLUMN FX:ID="COL_ITEM" PREFWIDTH="259.3333435058594"
STYLE="-FX-BORDER-COLOR: BLACK;" TEXT="ITEM" />
        <TABLECOLUMN FX:ID="COL_STOCK"
PREFWIDTH="93.99993896484375" STYLE="-FX-BORDER-COLOR: BLACK;"
TEXT="STOCK" />
      </COLUMNS>
```

CAFE MANAGEMENT SYSTEM

```
</TABLEVIEW>
<BUTTON FX:ID="REFRESH_BTN" LAYOUTX="35.0" LAYOUTY="66.0"
MNEMONICPARSING="FALSE" ONACTION="#REFRESH" PREFHEIGHT="28.0"
PREFWIDTH="69.0" STYLE="-FX-BACKGROUND-COLOR: #F86767; -FX-BORDER-
COLOR: BLACK; -FX-BORDER-RADIUS: 5PX;" TEXT="REFRESH">

    <FONT>
        <FONT NAME="ARIAL BLACK" SIZE="11.0" />
    </FONT>
</BUTTON>
</CHILDREN>
</PANE>
</CHILDREN>
</PANE>
```

-
- ☐ **COMMON CONTROLLER FILE FOR ADD_ITEM, EDIT_ITEM, DELETE_ITEM, AND STOCK_MANAGE FXML FILES :** ADMINPAGECONTROLLER.JAVA

```
PACKAGE ORG.EXAMPLE.CAFE_MANAGEMENT;

IMPORT JAVA.FX.COLLECTIONS.OBSERVABLELIST;
IMPORT JAVA.FX.EVENT.ACTIONEVENT;
IMPORT JAVA.FX.FXML.FXML;
IMPORT JAVA.FX.FXML.INITIALIZABLE;
IMPORT JAVA.FX.SCENE.CONTROL.*;
IMPORT JAVA.FX.SCENE.CONTROL.CELL.PROPERTYVALUEFACTORY;

IMPORT JAVA.NET.URL;
IMPORT JAVA.UUTIL.RESOURCEBUNDLE;

PUBLIC CLASS ADMINPAGESCONTROLLER IMPLEMENTS INITIALIZABLE {
    ALERT ALERTBOX = NEW ALERT(ALERT.ALERTTYPE.INFORMATION);

    FUNCTIONS FUN = NEW FUNCTIONS();
    @FXML
    PRIVATE BUTTON REFRESH_BTN;
```

CAFE MANAGEMENT SYSTEM

@FXML

PRIVATE TableView<ITEMTABLE> TAB;

@FXML

PRIVATE TABLECOLUMN<ITEMTABLE, STRING> COL_ITEM;

@FXML

PRIVATE TABLECOLUMN<ITEMTABLE, INTEGER> COL_STOCK;

@FXML

PRIVATE COMBOBOX<STRING> CATAGORY_TXT;

@FXML

PRIVATE SPINNER<INTEGER> STOCK_TXT;

@FXML

PRIVATE TEXTFIELD ITEMNAME_TXT, ITEMPRICE_TXT, SEARCH_TXT;

//EDIT CONTROLS

@FXML

PRIVATE COMBOBOX<STRING> ITEM_TXT, NEWITEMCATAGORY;

@FXML

PRIVATE TEXTFIELD NEWITEMNAME, NEWITEMPRICE;

//-----

OBSERVABLELIST<ITEMTABLE> TAB_LIST;

//FUNCTION THATE LOAD DATA IN TABLE BASED ON CATAGORY PASS AS PARAMETER

PRIVATE VOID LOADTABLE(STRING CATAGORY){

 //CCHECKING CATAGORY IS NOT EMPTY

 IF(CATAGORY != NULL) {

 COL_ITEM.SETCELLVALUEFACTORY(NEW

PROPERTYVALUEFACTORY<ITEMTABLE, STRING>("NAME"));

 COL_STOCK.SETCELLVALUEFACTORY(NEW

PROPERTYVALUEFACTORY<ITEMTABLE, INTEGER>("STOCK"));

CAFE MANAGEMENT SYSTEM

```
//STORE DATA IN OBSERVABLE TAB_LIST
TAB_LIST = FUN.GETITEMS(CATAGORY);
//SET TAB_LIST IN TABLE
TAB.SETITEMS(TAB_LIST);
}
}

//REFRESH ACTION BUTTON
@FXML
VOID REFRESH(ACTIONEVENT E) {
    //LOAD DATA IN TABLE
    LOADTABLE(CATAGORY_TXT.GETVALUE());
}

// IMPLIMENT INITIALIZE METHOD OF INITIALIZABLE INTERFACE
@Override
PUBLIC VOID INITIALIZE(URL URL, RESOURCEBUNDLE RESOURCEBUNDLE) {
    //LOADING CATAGORY LIST
    CATAGORY_TXT.SETITEMS(FUN.GETCATAGORYLIST());

    //SOLVE ERROR WHILE LOADING DELETE AND EDIT PAGE, ERROR SPINNER
    CONTROL

    IF(!URL.GETFILE().EQUALS("/D:/JAVAFX/CAFE_MANAGEMENT/TARGET/CLASSES/ORG/EXAMPLE/CAFE_MANAGEMENT/DELETE_ITEM_PAGE.FXML")) &&
    !URL.GETFILE().EQUALS("/D:/JAVAFX/CAFE_MANAGEMENT/TARGET/CLASSES/ORG/EXAMPLE/CAFE_MANAGEMENT/EDIT_ITEM_PAGE.FXML")) {
        //SET RANGE SETVALUEFACTORY PROPERTY IN STOCK_TXT SPINNER
        SPINNERVALUEFACTORY<INTEGER> STOCKSPINNER_VALUE = NEW
        SPINNERVALUEFACTORY.INTEGERSPINNERVALUEFACTORY(0, 100, 0);
        STOCK_TXT.SETVALUEFACTORY(STOCKSPINNER_VALUE);
    }

    //SET REFRESH BUTTON DISABLE PROPERTY TRUE
    REFRESH_BTN.SETDISABLE(TRUE);
}
```


CAFE MANAGEMENT SYSTEM

```
//INSERT OPERATION
@FXML
VOID INSERT_ACTION(ACTIONEVENT E){
    //CHECKING ALL FIELDS ARE FILLED OR NOT
    IF(!ITEMNAME_TXT.getText().isEmpty()           &&
!ITEMPRICE_TXT.getText().isEmpty() && STOCK_TXT.getValue() > -1 &&
CATAGORY_TXT.getValue() != NULL) {
        //GETTING CATAGORY CODE
        INT CAT_CODE = FUN.GETCATAGYCODE(CATAGORY_TXT.getValue());
        //CHECK IF CAT_CODE IS GREATER THEN 0 WHICH MEANS CATAGORY IS EXIST
ADN INSERT ITEM
        IF(CAT_CODE > 0){
            //CALLING INSERT FUNCTION IN FUNCTION CLASS FOR INSERT DATA
            FUN.INSERTITEM(CAT_CODE,                ITEMNAME_TXT.getText(),
INTEGER.PARSEINT(ITEMPRICE_TXT.getText()), STOCK_TXT.getValue()*12);
            //REFRESH TABLE
            LOADTABLE(CATAGORY_TXT.getValue());
            //LOADING CATAGORY LIST
            CATAGORY_TXT.SETITEMS(FUN.GETCATAGORYLIST());
        }
        //IF CAT_CODE IS NOT GREATER THEN 0 WHICH MEANS, IT IS NEW CATAGORY SO,
INSERT NEW CATAGORY AND THEN INSERT NEW ITEM
        ELSE{
            //INSERT NEW CATAGORY
            FUN.INSERTCATAGORY(CATAGORY_TXT.getValue());
            //GETTING CATAGORY CODE
            CAT_CODE = FUN.GETCATAGYCODE(CATAGORY_TXT.getValue());
            //INSERT NEW ITEM
            FUN.INSERTITEM(CAT_CODE,                ITEMNAME_TXT.getText(),
INTEGER.PARSEINT(ITEMPRICE_TXT.getText()), STOCK_TXT.getValue()*12);
            //REFRESH TABLE
            LOADTABLE(CATAGORY_TXT.getValue());
            //LOADING CATAGORY LIST
            CATAGORY_TXT.SETITEMS(FUN.GETCATAGORYLIST());
        }
    }
    ELSE{
```

CAFE MANAGEMENT SYSTEM

```
        ALERTBOX.SETCONTENTTEXT("FILL THE FORM PROPERLY");
        ALERTBOX.SHOWANDWAIT();
    }
    //REFRESH ALL FIELDS
    CATAGORY_TXT.SETVALUE(NULL);
    ITEMNAME_TXT.CLEAR();
    ITEMPRICE_TXT.CLEAR();
    STOCK_TXT.SETACCESSIBLETEXT("");
}

//SEARCH OPERATION
@FXML
VOID SEARCH_ACTION(ACTIONEVENT E){
    //CHECKING IF CATAGORY_TXT COMBOBOX IS SELECTED AND SEARCH TEXT ISNOT
    EMPTY
    IF(CATAGORY_TXT.GETVALUE() != NULL &&
    !SEARCH_TXT.GETTEXT().ISEMPTY()){
        COL_ITEM.SETCELLVALUEFACTORY(NEW
        PROPERTYVALUEFACTORY<ITEMTABLE, STRING>("NAME"));
        COL_STOCK.SETCELLVALUEFACTORY(NEW
        PROPERTYVALUEFACTORY<ITEMTABLE, INTEGER>("STOCK"));

        //STORE DATA IN OBSERVABLE TAB_LIST
        TAB_LIST =
        FUN.GETSEARCHITEM(CATAGORY_TXT.GETVALUE(),SEARCH_TXT.GETTEXT());
        //SET TAB_LIST IN TABLE
        TAB.SETITEMS(TAB_LIST);
    }
    //IF CATAGORY_TXT COMBOBOX IS NOT SELECTED AND SEARCH TEXT IS EMPTY
    THEN
    ELSE{
        ALERTBOX.SETCONTENTTEXT("FOR SEARCH SELECT CATAGORY AND SERACH
        ITEM NAME IS REQUIRED");
        ALERTBOX.SHOWANDWAIT();
    }
}
```

CAFE MANAGEMENT SYSTEM

```
//LOAD DATA IN TABLE AS PER CATAGORY WHEN CLICKING CATAGORY COMBO BOX
@FXML
VOID CATAGORY_ACTION_1(ACTIONEVENT E){
    //LOAD DATA IN TABLE WHEN CATAGORY_TXT COMBOBOX IS SELECT
    LOADTABLE(CATAGORY_TXT.GETVALUE());
    //SET REFRESH BUTTON DISABLE PROPERTY FALSE
    REFRESH_BTN.SETDISABLE(FALSE);
}

//LOAD TABLE AND ITEM COMBOBOX WHEN CLICKING CATAGORY COMBO BOX
@FXML
VOID CATAGORY_ACTION_2(ACTIONEVENT E){
    //LOAD TABLE
    LOADTABLE(CATAGORY_TXT.GETVALUE());
    //SET REFRESH BUTTON DISABLE PROPERTY FALSE
    REFRESH_BTN.SETDISABLE(FALSE);

    //LOAD ITEM COMBOBOX
    ITEM_TXT.SETITEMS(FUN.GETITEMLIST(CATAGORY_TXT.GETVALUE()));
}

//FILL THE FIELDS IN EDIT PAGE WHEN CLICKING ITEM COMBO BOX
PRIVATE INT ITEMCODE; //FOR STORING ITEM CODE AND USE IN EDIT_ACTION
METHOD
PUBLIC VOID ITEM_ACTION(ACTIONEVENT ACTIONEVENT) {
    OBSERVABLELIST<ITEMTABLE> LIST;
    //STORE DATA IN OBSERVABLE LIST
    LIST = FUN.FILLFIELDS(ITEM_TXT.GETVALUE(), CATAGORY_TXT.GETVALUE());
    //FILL TEXTFIELDS
    ITEMCODE = LIST.GET(0).GETCODE();
    NEWITEMNAME.SETTEXT(LIST.GET(0).GETNAME());
    NEWITEMPRICE.SETTEXT(LIST.GET(0).GETPRICE()+"");

    NEWITEMCATAGORY.SETITEMS(FUN.GETCATAGORYLIST());
    //STORE CATAGORY NAME IN STRING CATNAME BY CALLING GETCATAGORYNAME
    FUNCTION WHICH GET THE CATAGORY NAME BY ITES CODE
```

CAFE MANAGEMENT SYSTEM

```

        STRING                                CATNAME                                =
FUN.GETCATAGORYNAME(LIST.GET(0).GETCATAGORY_CODE());
    NEWITEMCATAGORY.SETVALUE(CATNAME);
}

//EDIT BUTTON ACTION
@FXML
PUBLIC VOID EDIT_ACTION(ACTIONEVENT E){
    // CHECKING ALL FIELDS ARE FILLED OR NOT
    IF(ITEMCODE > 0 && !NEWITEMNAME.GETTEXT().ISEMPTY() &&
!NEWITEMPRICE.GETTEXT().ISEMPTY() && NEWITEMCATAGORY.GETVALUE() != NULL){
        //CALLING UPDATE FUNCTION IN FUNCTION CLASS FOR MODIFYING DATA
        FUN.UPDATEITEM(ITEMCODE,                                NEWITEMNAME.GETTEXT(),
INTEGER.PARSEINT(NEWITEMPRICE.GETTEXT()), NEWITEMCATAGORY.GETVALUE());
        //LOAD TABLE
        LOADTABLE(CATAGORY_TXT.GETVALUE());
    }
    ELSE{
        ALERTBOX.SETCONTENTTEXT("FILL THE FORM PROPERLY");
        ALERTBOX.SHOWANDWAIT();
    }
    //REFRESH ALL THE FIELDS
    CATAGORY_TXT.SETVALUE(NULL);
    ITEM_TXT.SETVALUE(NULL);
    NEWITEMNAME.CLEAR();
    NEWITEMPRICE.CLEAR();
    NEWITEMCATAGORY.SETVALUE(NULL);
}

//DELETE ITEM ACTION
@FXML
PUBLIC VOID DELITEM_ACTION(ACTIONEVENT E){
    //CHECKING CATAGORY_TXT COMBOBOX AND ITEM_TXT COMBOBOX IS SELECTED
OR NOT
    IF(CATAGORY_TXT.GETVALUE() != NULL && ITEM_TXT.GETVALUE() != NULL){
        //CALLING DELITEM FUNCTION IN FUNCTION CLASS FOR DELETE ITEM
        FUN.DELITEM(ITEM_TXT.GETVALUE(), CATAGORY_TXT.GETVALUE());
    }
}
```

CAFE MANAGEMENT SYSTEM

```
//REFRESH TABLE
LOADTABLE(CATAGORY_TXT.GETVALUE());
}
ELSE{
    ALERTBOX.SETCONTENTTEXT("FILL THE FORM PROPERLY");
    ALERTBOX.SHOWANDWAIT();
}
//REFRESH FIELDS
CATAGORY_TXT.SETVALUE(NULL);
ITEM_TXT.SETVALUE(NULL);
}

//DELETE CATAGORY ACTION
PUBLIC VOID DELCATAGORY_ACTION(ACTIONEVENT E){
    //CHECKING CATAGORY_TXT COMBOBOX IS SELECTED OR NOT
    IF(ITEM_TXT.GETVALUE() != NULL) {
        //CALLING DELETECATAGORY FUNCTION IN FUNCTION CLASS FOR DELETE
        CATAGORY
        FUN.DELCATAGORY(CATAGORY_TXT.GETVALUE());
    }
    ELSE{
        ALERTBOX.SETCONTENTTEXT("FILL THE FORM PROPERLY");
        ALERTBOX.SHOWANDWAIT();
    }
}

//STOCK MODIFYING
@FXML
PUBLIC VOID STOCK_ACTION(ACTIONEVENT E){
    //CHECKING STOCK_TXT SPINNER IS GREATER THEN 0 AND ITEM_TXT COMBOBOX
    IS SELECTED
    IF(STOCK_TXT.GETVALUE() > 0 && ITEM_TXT.GETVALUE() != NULL){
        //CALLING STOCK FUNCTION IN FUNCTION CLASS FOR MODIFYING STOCK
        FUN.STOCK(STOCK_TXT.GETVALUE()*12,          ITEM_TXT.GETVALUE(),
        CATAGORY_TXT.GETVALUE());
        //REFRESH TABLE
        LOADTABLE(CATAGORY_TXT.GETVALUE());
    }
```

```
}  
ELSE{  
    ALERTBOX.SETCONTENTTEXT("FILL THE FORM PROPERLY");  
    ALERTBOX.SHOWANDWAIT();  
}  
}  
}  
}
```

-
- ☐ A MODEL CLASS FILE (MODEL OR POJO) REPRESENTS DATA WITH VAIBLES, A CONSTRUCTOR FOR INITIALIZATION, GATTER METHODS TO RETRIEVE THE VALUES. SOME FILES ARE FOLLOWED AS :

- CATEGORYTABLE.JAVA

```
PACKAGE ORG.EXAMPLE.CAFE_MANAGEMENT;
```

```
PUBLIC CLASS CATAGORYTABLE {
```

```
    PRIVATE INT CODE;
```

```
    PRIVATE STRING NAME;
```

```
    PUBLIC INT GETCODE() {
```

```
        RETURN CODE;
```

```
    }
```

```
    PUBLIC STRING GETNAME() {
```

```
        RETURN NAME;
```

```
    }
```

```
PUBLIC CATAGORYTABLE(String NAME) {  
    THIS.NAME = NAME;  
}
```

```
PUBLIC CATAGORYTABLE(INT CODE) {  
    THIS.CODE = CODE;  
}
```

```
PUBLIC CATAGORYTABLE(INT CODE, String NAME) {  
    THIS.CODE = CODE;  
    THIS.NAME = NAME;  
}  
}
```

○ ITEMTABLE.JAVA

```
PACKAGE ORG.EXAMPLE.CAFE_MANAGEMENT;
```

```
PUBLIC CLASS ItemTABLE {  
    PRIVATE INT CODE;  
    PRIVATE String NAME;  
    PRIVATE INT PRICE;  
    PRIVATE INT STOCK;  
    PRIVATE INT CATAGORY_CODE;  
  
    PUBLIC INT GETCODE() {  
        RETURN CODE;  
    }  
}
```

```
PUBLIC STRING GETNAME() {  
    RETURN NAME;  
}
```

```
PUBLIC INT GETPRICE() {  
    RETURN PRICE;  
}
```

```
PUBLIC INT GETSTOCK() {  
    RETURN STOCK;  
}
```

```
PUBLIC INT GETCATAGORY_CODE() {  
    RETURN CATAGORY_CODE;  
}
```

```
PUBLIC ItemTABLE(INT CODE, STRING NAME, INT PRICE, INT STOCK, INT  
CATAGORY_CODE) {  
    THIS.CODE = CODE;  
    THIS.NAME = NAME;  
    THIS.PRICE = PRICE;  
    THIS.STOCK = STOCK;  
    THIS.CATAGORY_CODE = CATAGORY_CODE;  
}  
}
```

○ ORDERTABLE.JAVA

```
PACKAGE ORG.EXAMPLE.CAFE_MANAGEMENT;
```

```
PUBLIC CLASS ORDERTABLE {  
    STRING NAME;  
    DOUBLE PRICE, TOTAL;  
    INT QTY;
```

```
PUBLIC STRING GETNAME() {  
    RETURN NAME;
```



```
    }

    PUBLIC DOUBLE GETPRICE() {
        RETURN PRICE;
    }

    PUBLIC DOUBLE GETTOTAL() {
        RETURN TOTAL;
    }

    PUBLIC INT GETQTY() {
        RETURN QTY;
    }

    PUBLIC ORDERTABLE(STRING NAME, DOUBLE PRICE, DOUBLE TOTAL, INT
QTY) {
        THIS.NAME = NAME;
        THIS.PRICE = PRICE;
        THIS.TOTAL = TOTAL;
        THIS.QTY = QTY;
    }
}
```

❑ FUNCTION FILE WHICH PERFORM ALL OPERATIONS

Function.java

```
package org.example.cafe_management;
```

```
import javafx.collections.FXCollections;
import javafx.collections.ObservableList;
import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.scene.control.Alert;
import javafx.scene.control.ButtonType;
```

CAFE MANAGEMENT SYSTEM

```
import java.sql.*;
import java.util.Optional;

public class Functions {
    Connection con;
    Alert alertbox = new Alert(Alert.AlertType.INFORMATION);

    //database connection
    Functions(){
        try {
            //Loading driver
            Class.forName("com.mysql.cj.jdbc.Driver");
            //Connecting to database
            con =
            DriverManager.getConnection("jdbc:mysql://localhost:3306/cafe_db",
            "root","admin#mysql");
            //Checking Connection
            // if(!con.isClosed()){
            //     alertbox.setContentText("Connected");
            //     alertbox.showAndWait();
            // }
            // else{
            //     alertbox.setContentText("Fail");
            //     alertbox.showAndWait();
            // }

        }
        catch (Exception e){
            alertbox.setContentText("Error In Connection");
            alertbox.showAndWait();
            System.out.println("Connection Error : "+e.toString());
        }
    }

    //Retrieve all data from Item table
    public ObservableList<ItemTable> getItems(String cat){
        int code = getCatagyCode(cat);
```

CAFE MANAGEMENT SYSTEM

```
ObservableList<ItemTable> list = FXCollections.observableArrayList();
try {
    Statement state = con.createStatement();
    ResultSet set = state.executeQuery("SELECT * FROM item_tab WHERE
catagory_code =" + code);
    while (set.next()){
        list.add(new ItemTable(set.getInt("item_code"),
set.getString("item_name"), set.getInt("item_price"), set.getInt("item_stock"),
set.getInt("catagory_code")));
    }
} catch (SQLException e) {
    alertbox.setContentText("Error In Retrieving Item Data");
    System.out.println("error : " + e.toString());
    alertbox.showAndWait();
}
return list;
}
```

//Insert Item operation

```
public void InsertItem(int catagory, String name, int price, int stock){

    String qry = "INSERT INTO item_tab(item_name, item_price, item_stock,
catagory_code) VALUES(?, ?, ?, ?)";
    try {
        PreparedStatement state = con.prepareStatement(qry);
        state.setString(1, name);
        state.setInt(2, price);
        state.setInt(3, stock);
        state.setInt(4, catagory);

        state.executeUpdate();
        alertbox.setContentText("1 Item Inserted");
        alertbox.showAndWait();

    } catch (SQLException e) {
        alertbox.setContentText("Error In Inserting Item Operation ");
        System.out.println("error : " + e.toString());
    }
}
```

CAFE MANAGEMENT SYSTEM

```
        alertbox.showAndWait();
    }
}
```

// Insert catagory Operation

```
public void InsertCatagory(String catagoryname){
    try {
        String qry = "INSERT INTO catagory_tab(catagory_name) VALUES(?)";
        PreparedStatement state = con.prepareStatement(qry);
        state.setString(1, catagoryname);
        state.executeUpdate();
        alertbox.setContentText("Catagory Inserted");
        alertbox.showAndWait();
    }catch(Exception e){
        alertbox.setContentText("Catagory Insertion Error");
        System.out.println("caragory error "+e.toString());
        alertbox.showAndWait();
    }
}
```

//Retrieving catagory code

```
public int getCatagyCode(String name){
    int code = 0;
    String qry = "SELECT catagory_code FROM catagory_tab WHERE
catagory_name = ?";
    try {
        PreparedStatement state = con.prepareStatement(qry);
        state.setString(1, name);
        ResultSet set = state.executeQuery();
        if(set.next()) {
            code = set.getInt("catagory_code");
        }
    } catch (SQLException e) {
        alertbox.setContentText("Error in getCatagoryCode Operation");
        alertbox.showAndWait();
    }
}
```

CAFE MANAGEMENT SYSTEM

```
        return code;
    }

    //Load data on Combobox of catagory

    public ObservableList<String> getCatagoryList(){
        ObservableList<String> cat_list = FXCollections.observableArrayList();
        try {
            Statement state = con.createStatement();
            ResultSet set = state.executeQuery("SELECT catagory_name FROM
catagory_tab");
            while(set.next()){
                cat_list.add(set.getString("catagory_name"));
            }
        } catch (SQLException e) {
            System.out.println("combobox loading error : "+e.toString());
        }
        return cat_list;
    }

    //Load Items in combobox when catagory click
    public ObservableList<String> getItemList(String catagory){
        ObservableList<String> item_list = FXCollections.observableArrayList();
        if(catagory != null) {
            int code = getCatagoryCode(catagory);
            try {
                Statement state = con.createStatement();
                ResultSet set = state.executeQuery("SELECT item_name FROM
item_tab WHERE catagory_code = " + code);
                while (set.next()) {
                    item_list.add(set.getString("item_name"));
                }
            } catch (SQLException e) {
                System.out.println("item loading error : " + e.toString());
            }
        }
        return item_list;
    }
```

```
}

//Searching Operation
public ObservableList<ItemTable> getSearchItem(String cat, String item){
    int code = getCatagyCode(cat);
    ObservableList<ItemTable> list = FXCollections.observableArrayList();
    try {
        PreparedStatement state = con.prepareStatement("SELECT * FROM
item_tab WHERE item_name=? AND catagory_code = ?");
        state.setString(1, item);
        state.setInt(2, code);
        ResultSet set = state.executeQuery();
        if (set.next()){
            list.add(new ItemTable(set.getInt("item_code"),
set.getString("item_name"), set.getInt("item_price"), set.getInt("item_stock"),
set.getInt("catagory_code")));
        }
    } catch (SQLException e) {
        alertbox.setContentText("For search select catagory and serach item name
is required");
        System.out.println("error : "+e.toString());
        alertbox.showAndWait();
    }
    return list;
}

//fill the text field as item combobox
public ObservableList<ItemTable> FillFields(String item, String catagory){
    ObservableList<ItemTable> list = FXCollections.observableArrayList();
    try{
        int code = getCatagyCode(catagory);
        String qry = "SELECT * FROM item_tab WHERE item_name = ? AND
catagory_code = ?";
        PreparedStatement state = con.prepareStatement(qry);
        state.setString(1, item);
        state.setInt(2, code);
```

CAFE MANAGEMENT SYSTEM

```
        ResultSet set = state.executeQuery();
        if(set.next()){
            list.add(new ItemTable(set.getInt("item_code"),
set.getString("item_name"), set.getInt("item_price"), set.getInt("item_stock"),
set.getInt("catagory_code")));
        }
    } catch (Exception e){
        System.out.println(e.toString());
    }
    return list;
}
```

```
//Get Catagory name as catagory code for edit page
public String getCatagoryName(int code){
    String catname = null; //catagory name
    try {
        Statement state = con.createStatement();
        ResultSet set = state.executeQuery("SELECT catagory_name FROM
catagory_tab WHERE catagory_code = "+code);
        if(set.next()){
            catname = set.getString("catagory_name");
        }
    } catch (SQLException e) {
        System.out.println("getCatagoryName Error : "+e.toString());
    }
    return catname;
}
```

```
//Modify Item table data
public void UpdateItem(int itemcode, String name, int price, String catagory){
    try{
        int code = getCatagoryCode(catagory);
        String qry = "UPDATE item_tab SET item_name = ?, item_price = ?,
catagory_code = ? WHERE item_code = ?";
        PreparedStatement state = con.prepareStatement(qry);
        state.setString(1, name);
        state.setInt(2, price);
    }
```

CAFE MANAGEMENT SYSTEM

```
state.setInt(3, code);
state.setInt(4, itemcode);

state.executeUpdate();
alertbox.setContentText("1 Row Modified");
alertbox.showAndWait();
}catch (Exception e){
    System.out.println("UpdateItem Function Error : "+e.toString());
}
}

//Delete Item From item table
public void DelItem(String item, String catagory){
    try {
        int code = getCatagyCode(catagory);
        String qry = "DELETE FROM item_tab where item_name = ? AND
catagory_code = ?";
        PreparedStatement state = con.prepareStatement(qry);
        state.setString(1, item);
        state.setInt(2, code);

        state.executeUpdate();
        alertbox.setContentText("1 Row Deleted");
        alertbox.showAndWait();
    }catch (Exception a){
        System.out.println("Delet Item Error : "+a.toString());
    }
}

//Delete Catagory and its Item
// Create a new ConfirmBox
Alert confirm = new Alert(Alert.AlertType.CONFIRMATION);
public void DelCatagory(String catagroy){
    // checking itaem is existing or not of given catagory code
    if(!getItemList(catagroy).isEmpty()){
        confirm.setContentText("Item Existing in "+catagroy+" Catagory Do You
Want Delete");
    }
}
```


CAFE MANAGEMENT SYSTEM

```
Optional<ButtonType> res = confirm.showAndWait();
//If User Click Ok Then Delete all item and catagory
if (res.get() == ButtonType.OK) {
    //getting catagory code as per its name
    int code = getCatagryCode(catagroy);
    try {
        //First Delete All Items
        String itemqry = "DELETE FROM item_tab WHERE catagory_code =
" + code;

        Statement itemst = con.createStatement();
        itemst.executeUpdate(itemqry);

        //Now Delete Catagory
        String catqry = "DELETE FROM catagory_tab WHERE
catagory_code = "+code;
        Statement catst = con.createStatement();
        itemst.executeUpdate(catqry);

        alertbox.setContentText(catagroy+" Catagory Is Deleted");
        alertbox.showAndWait();

    }catch(Exception a){
        System.out.println("Catagory Delete "+a.toString());
    }
}
//If User Click Cancel Te Delete Operation Is Cancel
else if (res.get() == ButtonType.CANCEL) {
    System.out.println("User chose Cancel");
}
}
else{
    alertbox.setContentText("No data");
    alertbox.showAndWait();
}
}

//Stock management, adding new stock
```

CAFE MANAGEMENT SYSTEM

```
public void Stock(int num, String item, String catagory){
    String qry = "UPDATE item_tab SET item_stock = item_stock + ? WHERE
item_name = ? AND catagory_code = ?";
    try {
        int code = getCatagyCode(catagory);

        PreparedStatement state = con.prepareStatement(qry);
        state.setInt(1, num);
        state.setString(2, item);
        state.setInt(3, code);

        state.executeUpdate();

        alertbox.setContentText("Stock Midified");
        alertbox.showAndWait();
    }catch (Exception e){
        System.out.println("stock management Error : "+e.toString());
    }
}

//Index page -----

//Loading catagory name list in catagorylist
ObservableList<String> LoadCatagoryList(){
    ObservableList<String> list = FXCollections.observableArrayList();
    try {
        Statement st = con.createStatement();
        ResultSet set = st.executeQuery("SELECT catagory_name FROM
catagory_tab");

        while (set.next()){
            list.add(set.getString("catagory_name"));
        }
    } catch (SQLException e) {
        System.out.println("Catagroy Loading Error "+ e.toString());
    }
    return list;
}
```

```
}

//Loading Item name list in Item list when selecting catagory list
public ObservableList<String> LoadItemList(String catagory){
    ObservableList<String> list = FXCollections.observableArrayList();
    try{
        //Getting catagory code
        int code = getCatagoryCode(catagory);

        Statement st = con.createStatement();
        ResultSet set = st.executeQuery("SELECT item_name, item_stock FROM
item_tab WHERE catagory_code = "+code);
        while (set.next()){
            if(Get_Item_Stock(set.getString("item_name")) > 0) {
                list.add(set.getString("item_name")+
("+set.getInt("item_stock")+"));
            }
        }
    }catch (Exception e){
        System.out.println("Loading Item List Error : "+ e.toString());
    }
    return list;
}

//Check item stock availability
public int Get_Item_Stock(String item){
    String qry = "SELECT item_stock FROM item_tab WHERE item_name = ?";
    int stock = 0;
    try {
        PreparedStatement st = con.prepareStatement(qry);
        st.setString(1, item);
        ResultSet set = st.executeQuery();
        if(set.next()){
            stock = set.getInt("item_stock");
        }
    } catch (SQLException e) {
        System.out.println("Check Stock Availability Method Error : "+e.toString());
    }
}
```

CAFE MANAGEMENT SYSTEM

```
    }
    return stock;
}

//catagory search function
public ObservableList<String> CatagorySerach(String catagory){
    ObservableList<String> list = FXCollections.observableArrayList();

    try{
        String qry = "SELECT catagory_name FROM catagory_tab WHERE
catagory_name like '"+catagory+"%";
        Statement st = con.createStatement();
        ResultSet set = st.executeQuery(qry);
        while (set.next()){
            list.add(set.getString("catagory_name"));
        }
    }catch (Exception e){
        System.out.println("catagory search Error "+e.toString());
    }
    return list;
}

//Item Search function
public ObservableList<String> ItemSerach(String item, String catagory){
    ObservableList<String> list = FXCollections.observableArrayList();
    int code = getCatagyCode(catagory);
    try{
        String qry = "SELECT item_name, item_stock FROM item_tab WHERE
item_name like '"+item+"%' AND catagory_code = "+code;
        Statement st = con.createStatement();
        ResultSet set = st.executeQuery(qry);
        while (set.next()){
            if(Get_Item_Stock(set.getString("item_name"))>0) {
                list.add(set.getString("item_name")+
(" "+set.getInt("item_stock")+"));
            }
            // list.add(set.getString("item_name"));
        }
    }
```

```
    }
    }catch (Exception e){
        System.out.println("item search Error "+e.toString());
    }
    return list;
}

//-----
//Login Form

//signin action
public boolean CheckLogin(int sign, String user, String pass_mail){
    boolean flag = false;
    String qry = null;
    try {
        if(sign == 1){
            qry = "SELECT id FROM admin_tab WHERE name = ? AND pass = ?";
        }else if (sign == 2){
            qry = "SELECT id FROM admin_tab WHERE name = ? AND mail = ?";
        }
        PreparedStatement st = con.prepareStatement(qry);
        st.setString(1, user);
        st.setString(2, pass_mail);

        ResultSet set = st.executeQuery();
        if(set.next()){
            flag = true;
        }
    }catch (Exception e){
        System.out.println("Login Error : "+e.toString());
    }
    return flag;
}

//staf login method
public boolean Check_Staf_Login(String name, String pass){
```

CAFE MANAGEMENT SYSTEM

```
String qry = "SELECT * FROM staf_tab WHERE name = ? AND password =
?";
boolean flag = false;
try {
    PreparedStatement st = con.prepareStatement(qry);
    st.setString(1, name);
    st.setString(2, pass);

    ResultSet set = st.executeQuery();
    if(set.next()){
        flag = true;
    }
} catch (Exception e){
    System.out.println("Staf Login Method Error : "+e.toString());
}
return flag;
}
```

```
//method that subtract ordered item stock
public void Subtract_Stock(String item, int qty){
    String qry = "UPDATE item_tab SET item_stock = item_stock - ? WHERE
item_name = ?";
    try {
        PreparedStatement st = con.prepareStatement(qry);
        st.setInt(1,qty);
        st.setString(2, item);
        int res = st.executeUpdate();
    } catch (SQLException e) {
        System.out.println("Subtract_Stock Method Error : "+e.toString());
    }
}
```

```
//metod for restore item stock
public void Restore_Stock(String item, int qty){
    String qry = "UPDATE item_tab SET item_stock = item_stock + ? WHERE
item_name = ?";
```

```
try {
    PreparedStatement state = con.prepareStatement(qry);
    state.setInt(1, qty);
    state.setString(2, item);

    state.executeUpdate();
} catch (Exception e) {
    System.out.println("stock management Error : "+e.toString());
}
}
```

□ Cascading Style Sheet

```
#btn
{
/* #f86767 */
-fx-padding: 8 15 15 15;
-fx-background-insets: 0,0 0 5 0,0 0 6 0,0 0 7 0;
-fx-background-radius: 8;
-fx-background-color:
    linear-gradient(from 0% 93% to 0% 100%,#a34313 0%,#903b12 100%),
    #9d4024,
    #d86e3a,
    radial-gradient(center 50% 50%, radius 100%,#d96e3a,#c54e2c);
-fx-effect: dropshadow(gaussian, rgba(0,0,0,0.75),4,0,0,1);
-fx-font-weight: bold;
-fx-font-size: 1.1em;
-fx-text-fill: white;
}
```

```
#btn:hover
```

```
{

    -fx-background-color:
        linear-gradient(from 0% 93% to 0% 100%,#a34313 0%,#903b12 100),
        #9d4024,
        #d86e3a,
        radial-gradient(center 50% 50%,radius 100%,#ea7f4b,#c54e2c);
}

#btn:pressed
{
    -fx-padding: 10 15 13 15;
    -fx-background-insets: 2 0 0 0,2 0 3 0,2 0 4 0,2 0 5 0;
}

/* all the containers */
#container{
    -fx-background-color: #ffe1ad69;
    -fx-border-width: 2px;
    -fx-border-color: Black;
    -fx-background-radius: 10px;
    -fx-border-radius: 10px;
}

/* admin page's menu buttons */
#Add_btn, #Edit_btn, #Del_btn ,#Stock_btn{
    -fx-background-radius: 50%;
    -fx-border-radius: 50%;
    -fx-border-width: 5px;
    -fx-background-color: transparent;
}
#Add_btn{
    -fx-border-color: #f26666;
}
#Add_btn:hover{
    -fx-background-color: #ffcccc;
}
```



```
#Edit_btn{
    -fx-border-color: #846e42;
}
#Edit_btn:hover{
    -fx-background-color: #e0c79d;
}
#Del_btn{
    -fx-border-color: #1bb6d1;
}
#Del_btn:hover{
    -fx-background-color: #ccf8ff;
}
#Stock_btn{
    -fx-border-color: #38b536;
}
#Stock_btn:hover{
    -fx-background-color: #caffc9;
}

/* text fields */
#TextFields{
    -fx-background-color: #F5F5DC;
    -fx-border-width: 2px;
    -fx-border-color: Black;
}
```

CAFE MANAGEMENT SYSTEM

Invoice


INVOICE
Khoda/Om Phone. 2246460 opp. Kamla Bag, near BOB Bank, Porbandar, Gujarat - 360575

Customer Detail	
Name - Anknown Customer Contact - None	Date Fri Sep 20 15:36:53 IST 2024

Item	qty.	Price	Total
Chocolate Cone	2	20.0	40.0
strawberry cone	3	40.0	120.0
pista masti cone	3	40.0	120.0
mava kulfi	6	10.0	60.0
mango ice sandwich	4	50.0	200.0

SubTotal - 550.0
GST - 27.5
Grand Total - 577.5