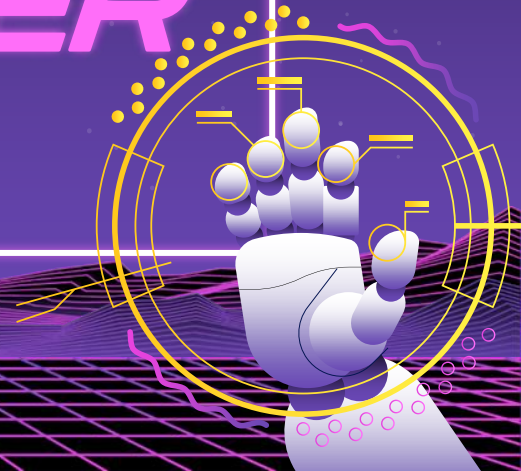


# ***OBJECT ORIENTED PROGRAMMING END SEMESTER PROJECT***

Batch B Group 15





# ***Mess Management System***

## **Introduction:**

**We got the idea of building a mess management system is primarily from the commonly faced issue by almost every hosteller. Mess management plays a vital role in ensuring a smooth and hassle-free dining experience for students who rely on shared meal services. The primary objective of our Mess Management System is to offer a centralized platform that simplifies and automates various mess related operations.**



# *Segregation of Modules*

*01*

*User Management*

Yeshwanth Balaji

*02*

*Transaction*

Sarvesh K

*03*

*Forgotten Password*

Forgotten Password Module

*04*

*Notification*

Kishor S

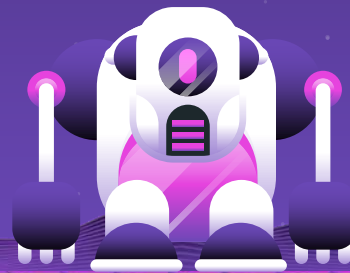
*05*

*Report Generation*

Yeshwanth Balaji

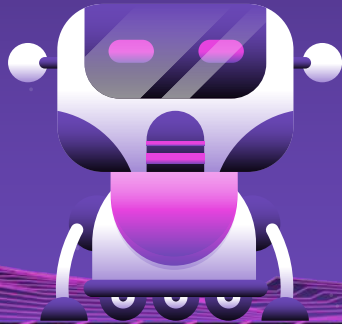
01

# *USER MANAGEMENT*

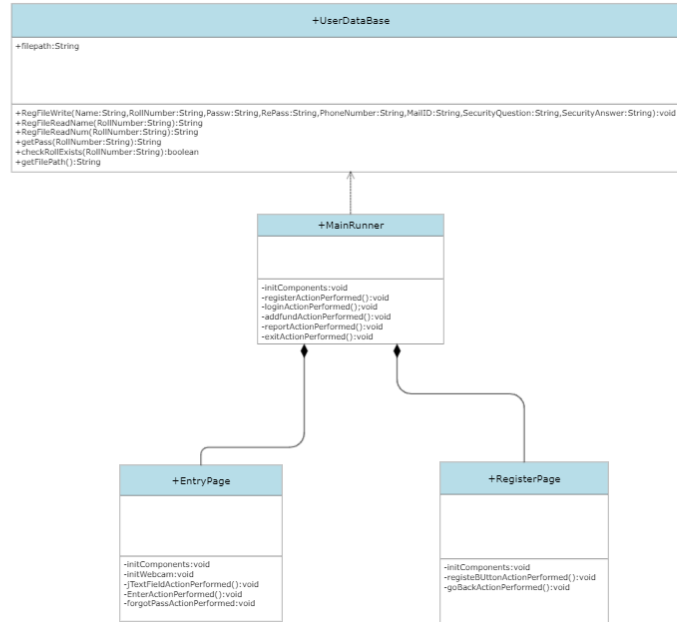


# *About this module*

**In the First module which is User Management also the main module the user will be able to create an account for themselves and it further validates if the data entered by the user meets all the required criteria. Nextly in the login portal, the same module verifies the values entered by the user with the previously loaded values into the database.**

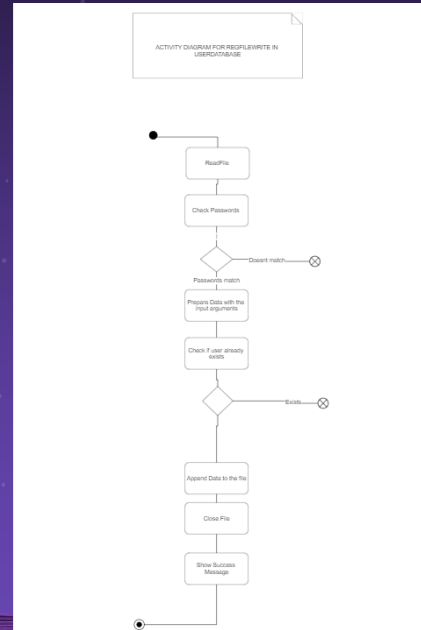
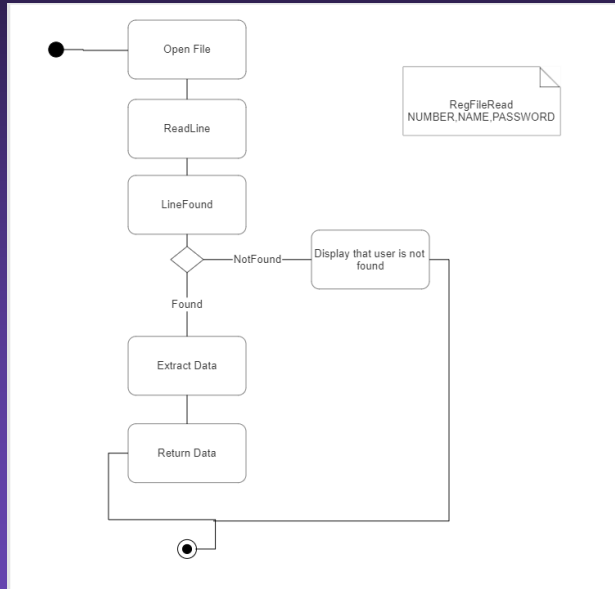


# UML



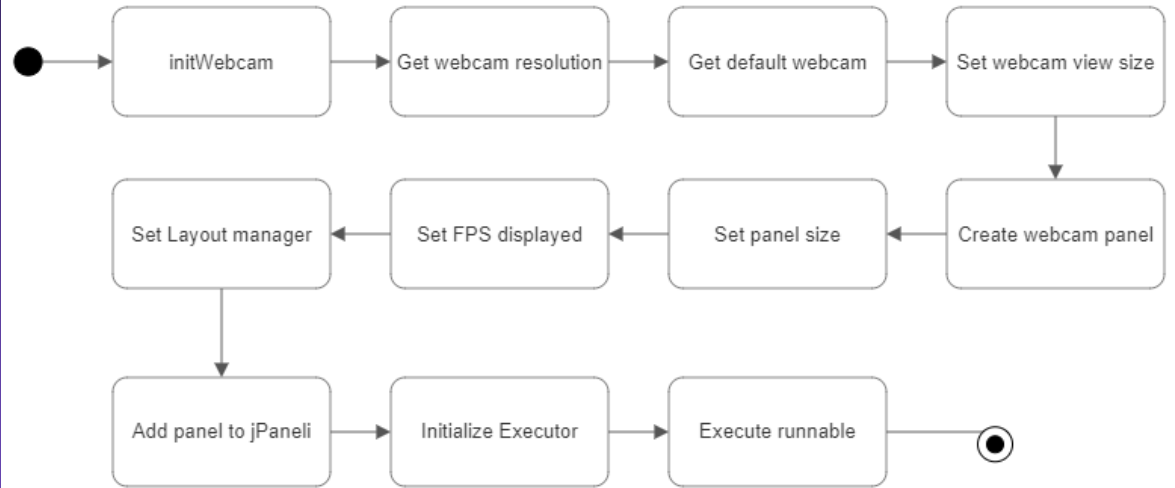
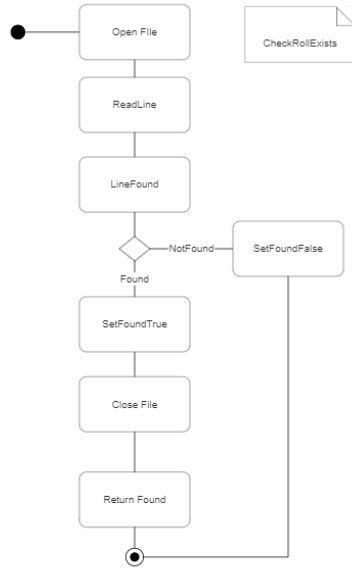
Since the GUI was done with the inbuilt JFrame class. It was not added here.

# UML



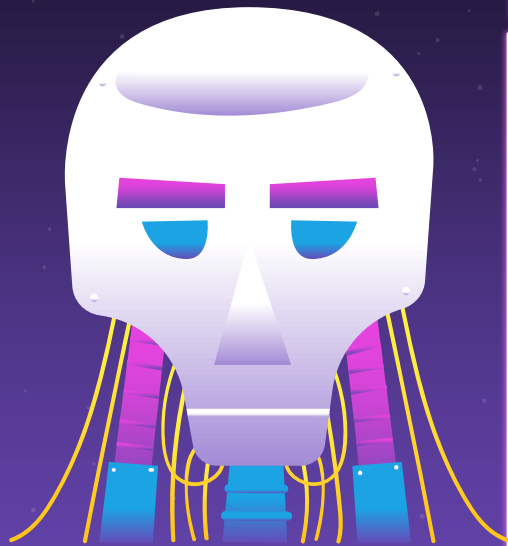


# UML





02

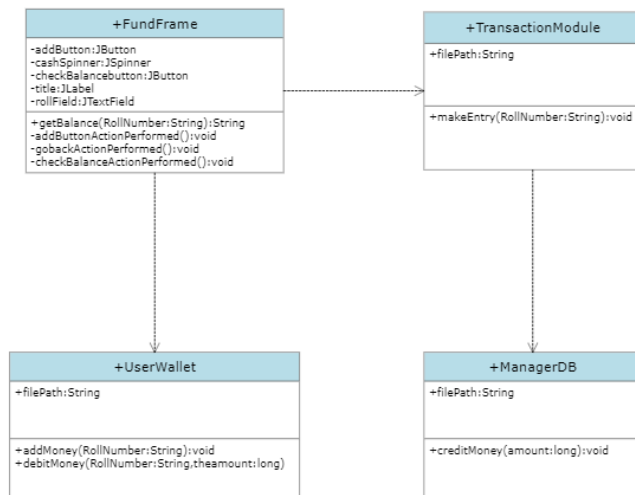


TRANSACTION

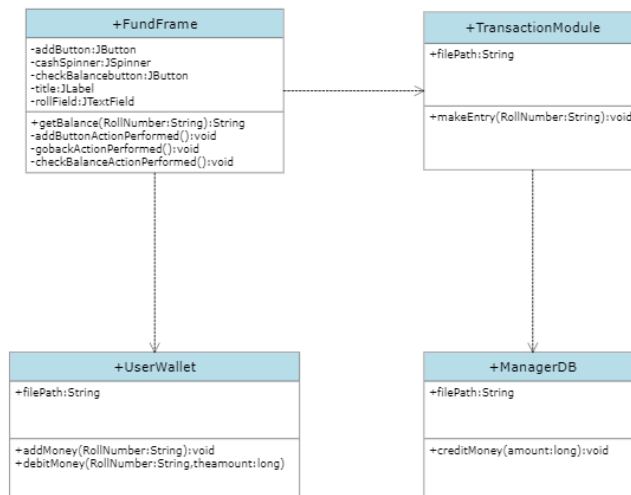
# ***ABOUT THIS MODULE***

**This module enables the user to create a mess wallet for themselves and make payments for their respective meals, it only detects the money if the meal is being utilized by the user which can be interpreted upon the entry to the mess if the user enters the mess and scans his ID card a sum of Rs.30 will be deducted from his, We have set Rs.30 as an average amount for each meal. After deducting the money from the user's wallet the remaining amount gets stored back in their wallet.**

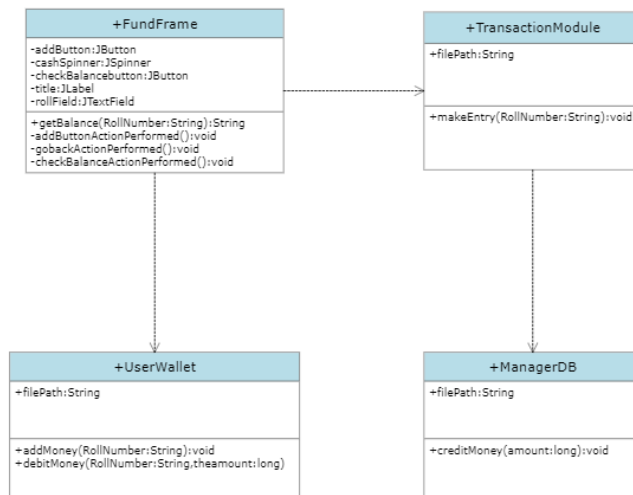
# UML



# UML



# UML



Several small squares in yellow, cyan, and magenta are floating in the upper corners of the frame.


*03*

*FØRGØT  
PASSWØRD*





A cluster of small squares in magenta, cyan, and yellow is located on the left side of the image.A cluster of small squares in yellow and magenta is located at the bottom center of the image.



# ***ABOUT THIS MODULE***

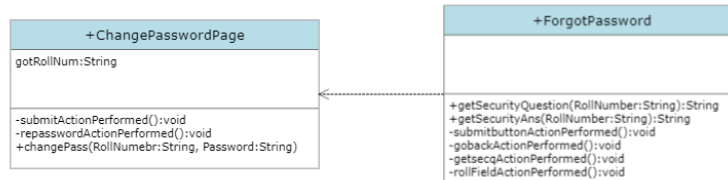


**This module can be interpreted as the extension of the user management module, in the user management for logging in it asks the user for their respective credentials if the user has forgotten their password or if they want to change their password they opt to go for the forgot password option which further enables the user to change their password at the ease by just by answering the security question correctly upon the user entering the correct answer for the security question it allows the user to further modify his password . After this the updated password gets updated in the database.**

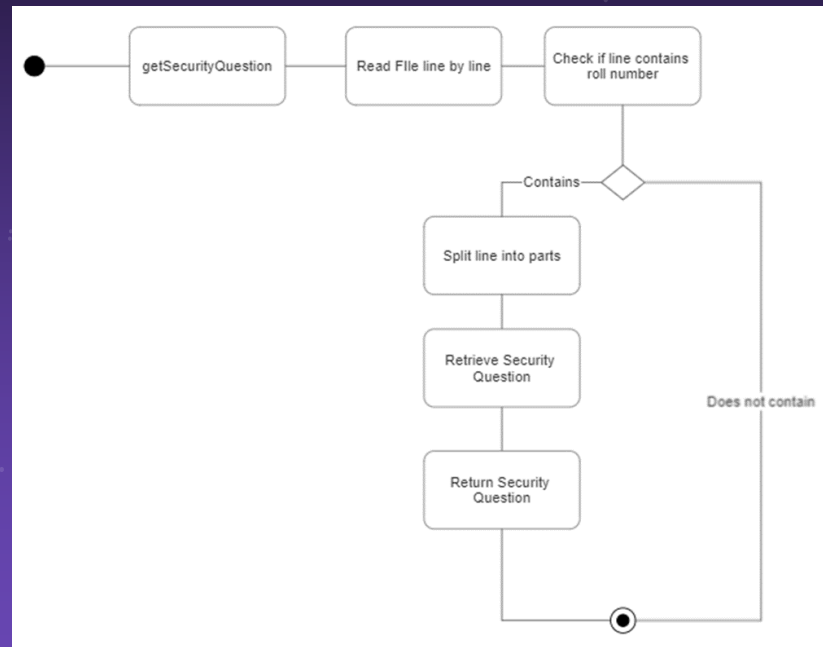




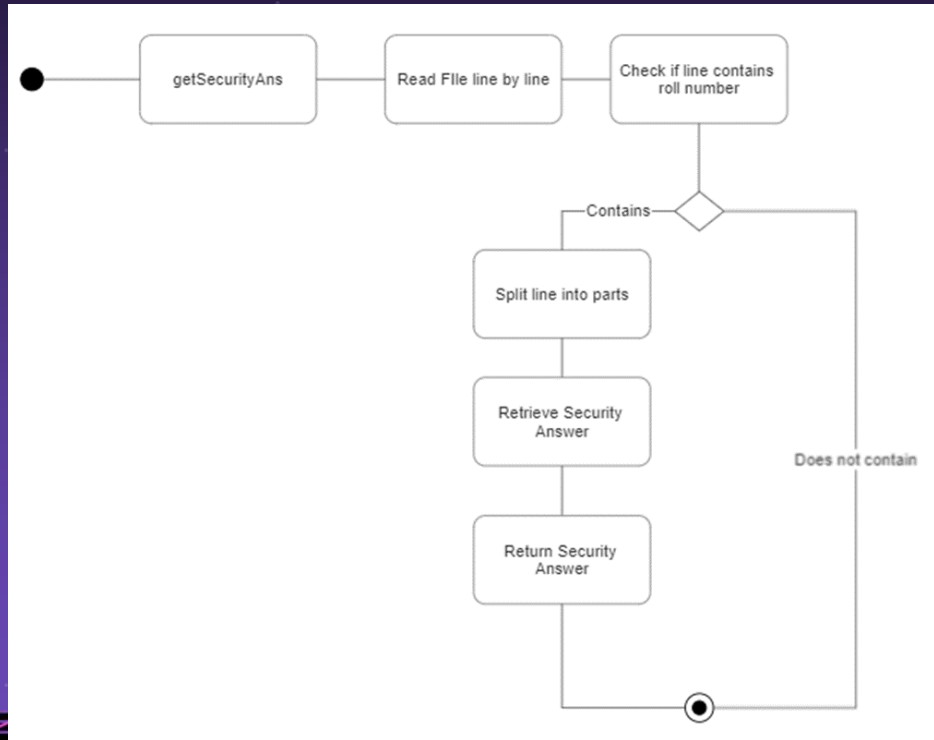
# UML



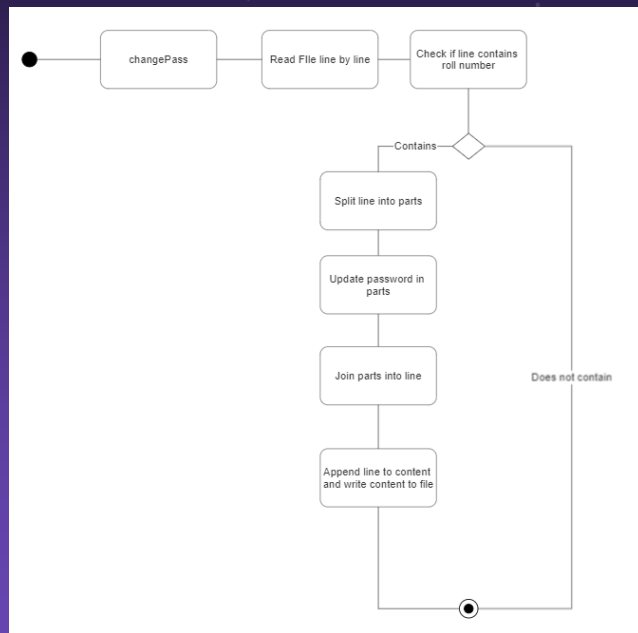
# UML



# UML



# UML




**04**


# **NOTIFICATION MODULE**



# ***ABOUT THIS MODULE***



**The main purpose of this module is to send confirmation notifications to the user, this module enables us to do it automatically, just after entering the recipient's name and phone number after getting these information from the user it automatically generates an SMS to the respective phone number of the user.**



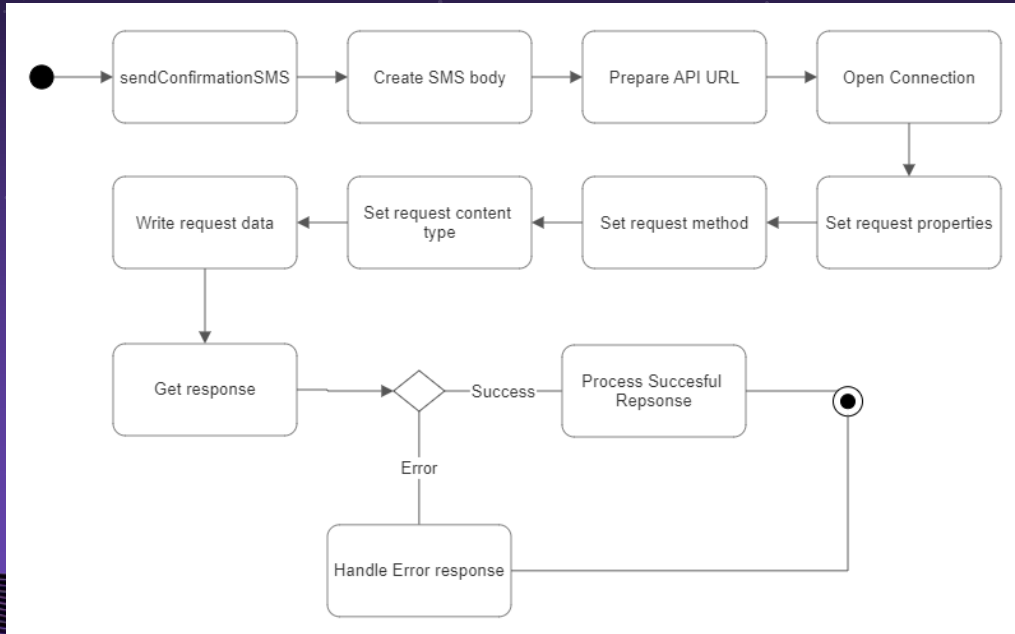
# UML

+NotificationSender
+sendConfirmationSMS(Name:String,PhoneNumber:String)

+ReportPage
-generate:JButton +goBackButton:JButton -rollLabel:JLabel -rollText:JTextField -title:JLabel -webcampanel:JPanel
-initWebcam():void -generateActionPerformed():void -rollTextActionPerformed():void -goBackButtonActionPerformed():void +generateEntryReport(RollNumber:String):void



# UML





05





*REPORT*





# ***ABOUT THIS MODULE***

**This module is responsible for generating various reports that provide various insights and information about the mess operations. The module collects the data from different sources within the system (which are other modules) and it further transforms the data into meaning full reports so that it can be used for analysis.**

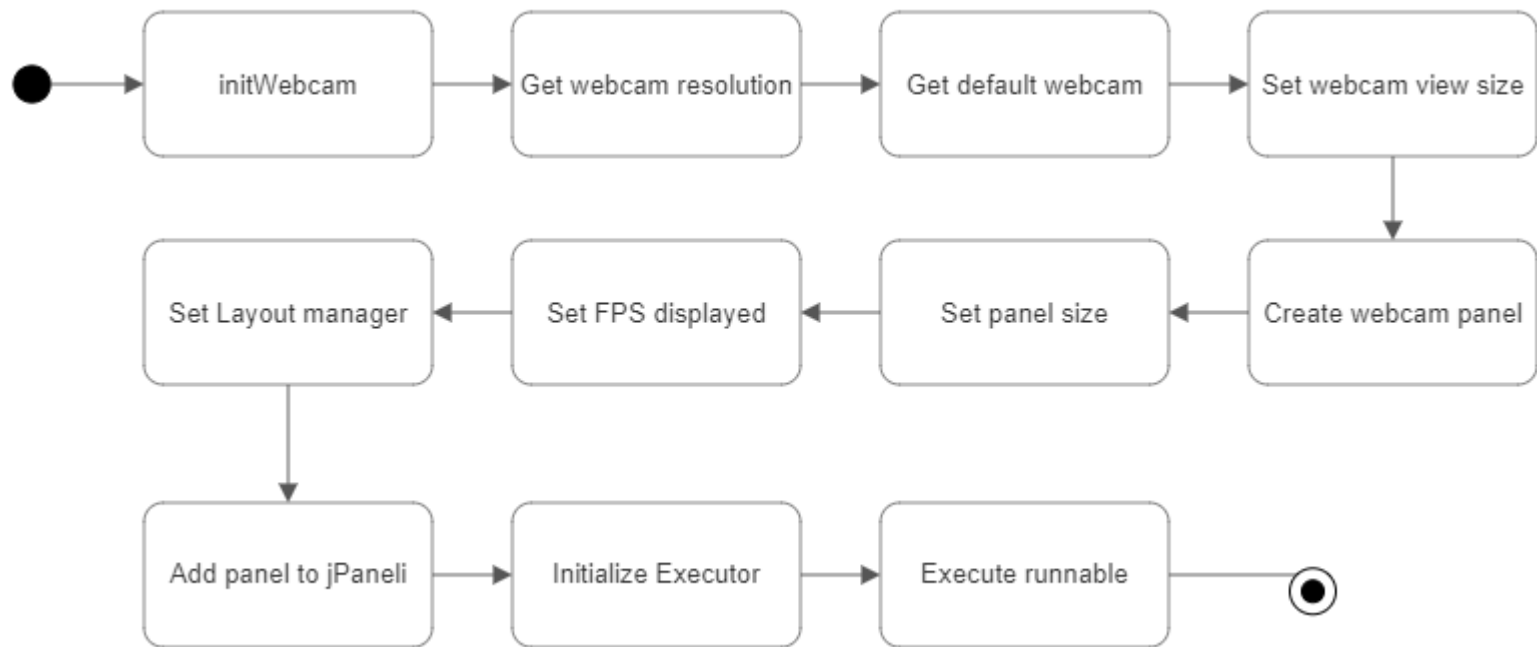


# UML

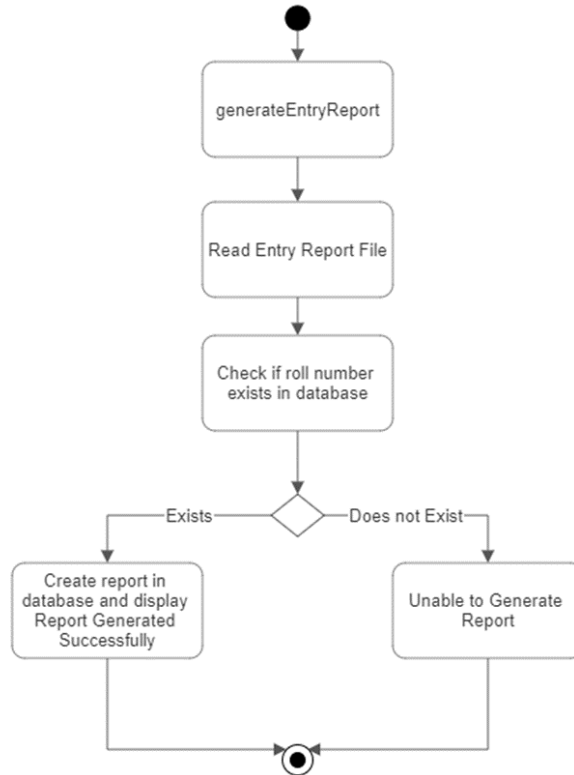
+NotificationSender
+sendConfirmationSMS(Name:String,PhoneNumber:String)

+ReportPage
-generate:JButton +goBackButton:JButton -rollLabel:JLabel -rollText:JTextField -title:JLabel -webcampanel:JPanel
-initWebcam():void -generateActionPerformed():void -rollTextActionPerformed():void -goBackButtonActionPerformed():void +generateEntryReport(RollNumber:String):void

# UML



# UML



# *Conclusion*

**In our Mess Management System we have used various OOPS concepts and divided the whole project into 5 different modules of which all have their own set of functions which all put together conclusively forms our Mess Management System. On addition to it making our Mess management system more interactive we have also integrated a GUI.**