National Institute of Technology Karnataka
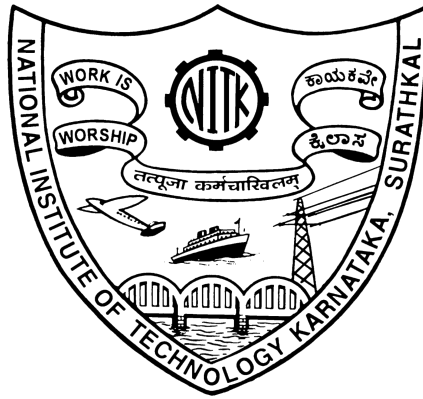## Department of Information Technology

Topic

Software Engineering Assignment - 4
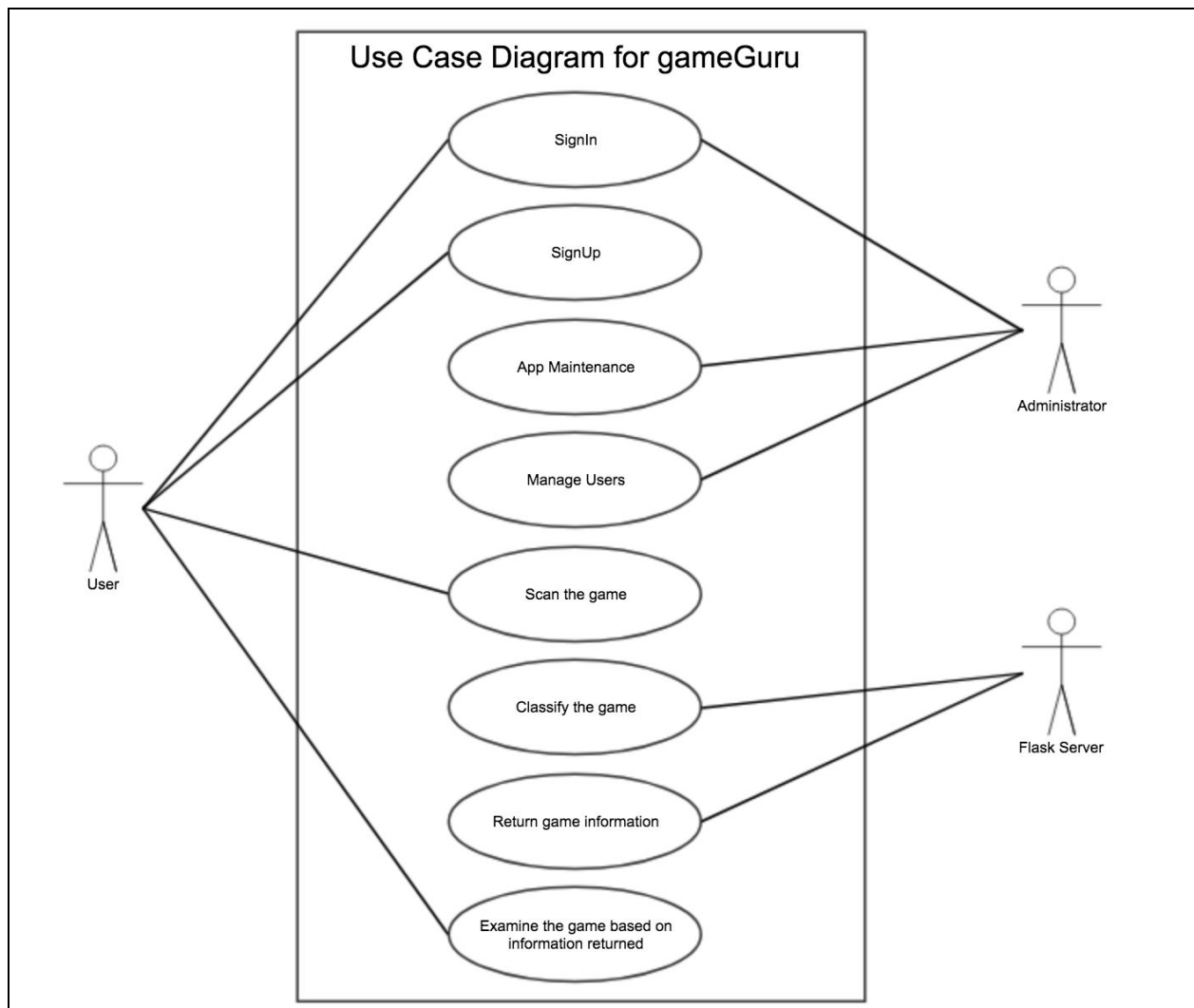
Submitted To
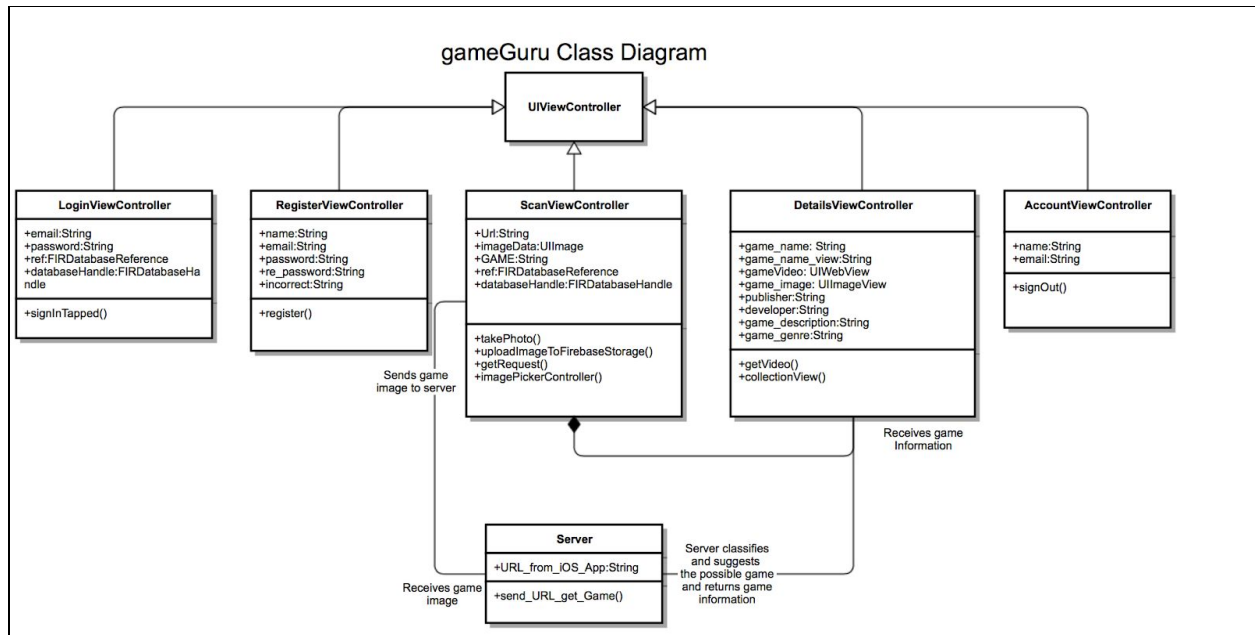
Ms. Raksha R Nadgir

Department of Information Technology

Submitted By

Aiman Abdullah Anees   15IT106

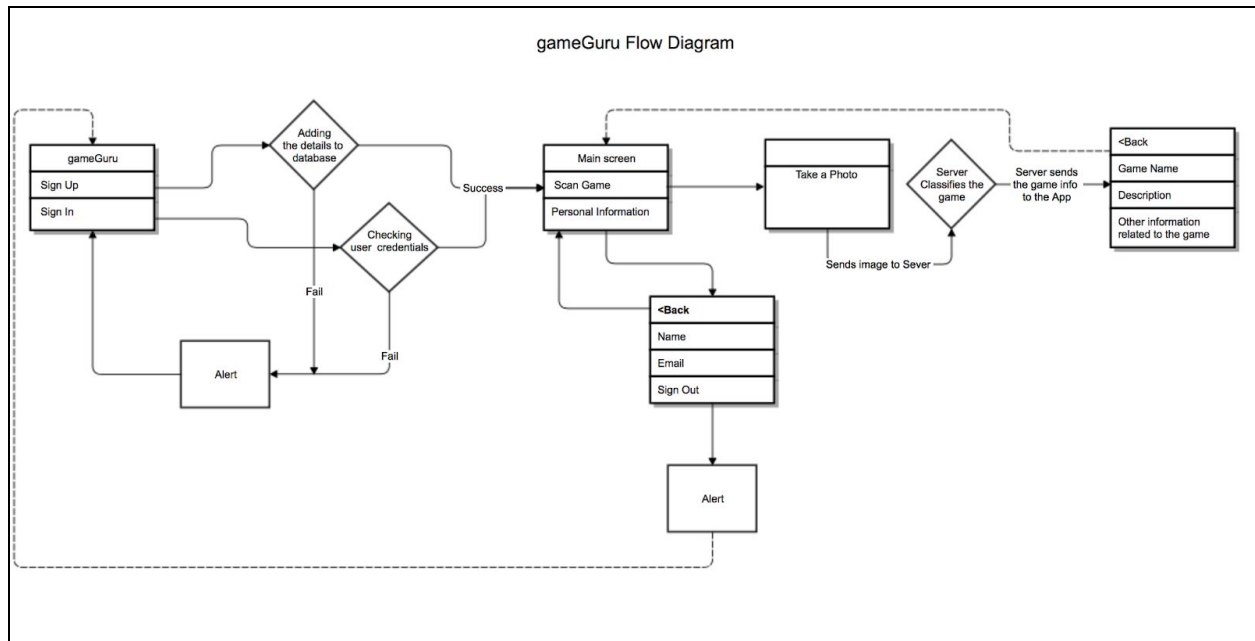## Use Case Diagram

Use Case Diagram for gameGuru
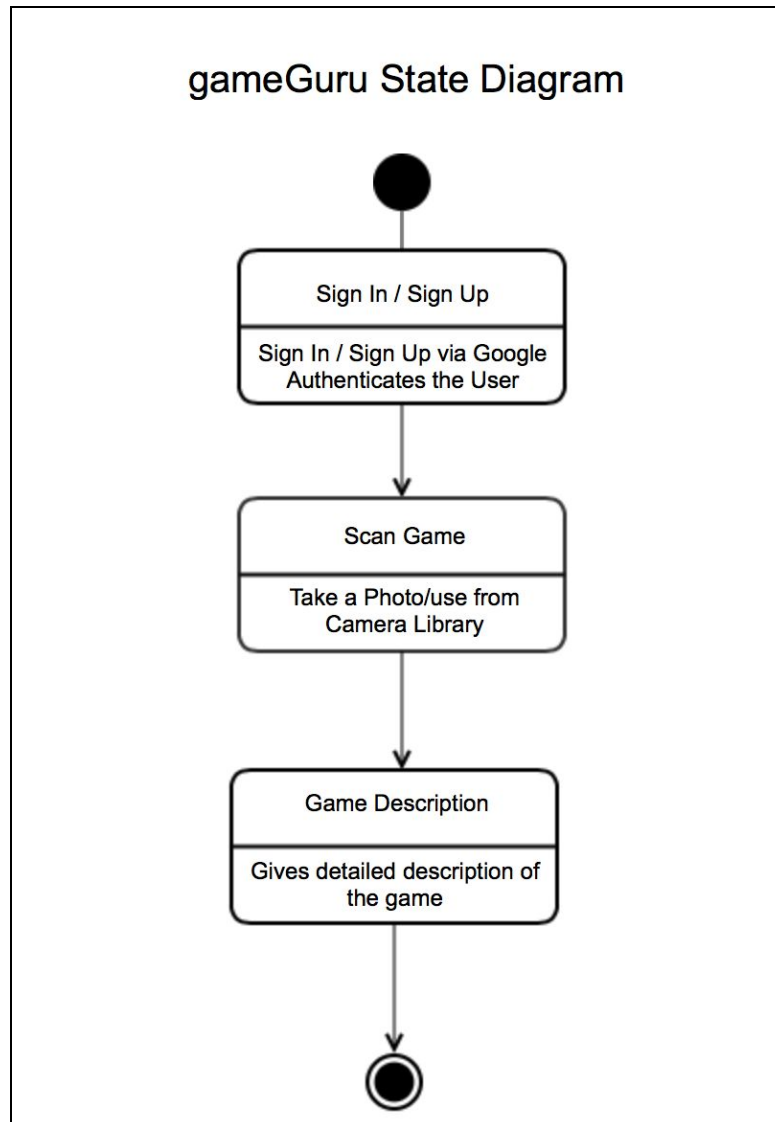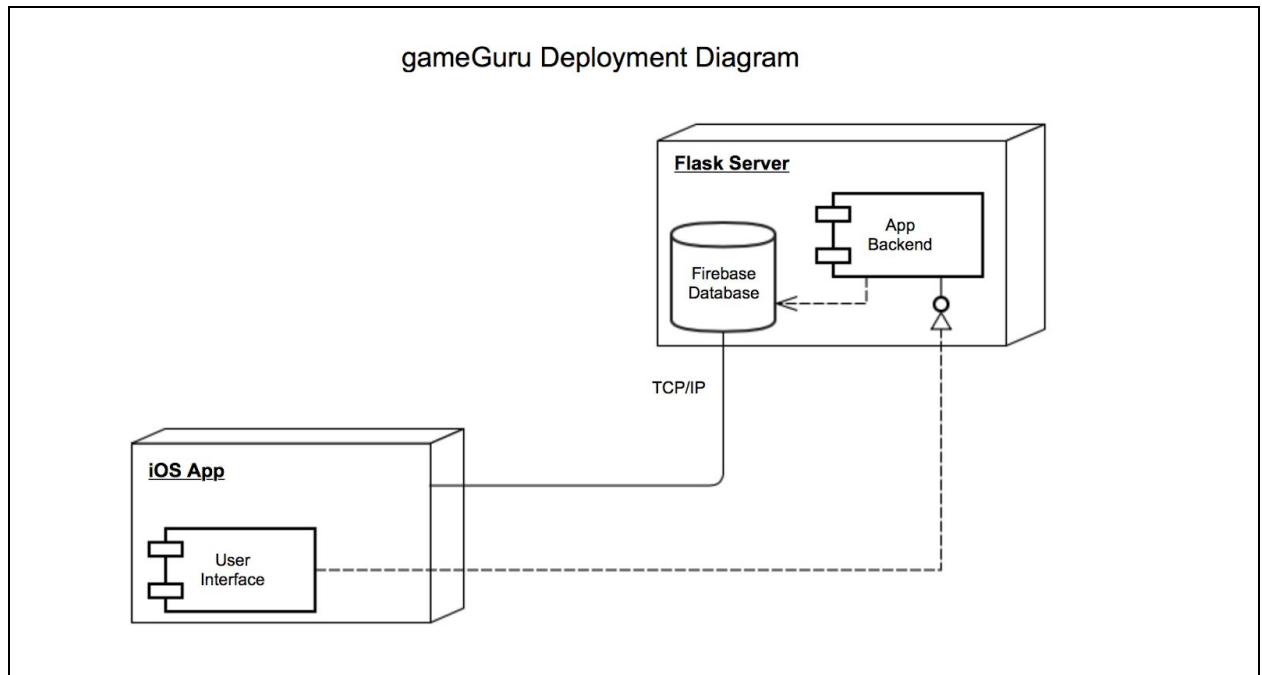
- SignIn
- SignUp
- App Maintenance
- Manage Users
- Scan the game
- Classify the game
- Return game information
- Examine the game based on information returned

User

Administrator

Flask Server

Class Diagram

gameGuru Class Diagram

UIViewController

LoginViewController
+email:String
+password:String
+ref:FIRDatabaseReference
+databaseHandle:FIRDatabaseHandle

+signInTapped()

RegisterViewController
+name:String
+email:String
+password:String
+re_password:String
+incorrect:String

+register()

ScanViewController
+Url:String
+imageData:UIImage
+GAME:String
+ref:FIRDatabaseReference
+databaseHandle:FIRDatabaseHandle

+takePhoto()
+uploadImageToFirebaseStorage()
+getRequest()
+imagePickerController()

DetailsViewController
+game_name: String
+game_name_view:String
+gameVideo: UIWebView
+game_image: UIImageView
+publisher:String
+developer:String
+game_description:String
+game_genre:String

+getVideo()
+collectionView()

AccountViewController
+name:String
+email:String

+signOut()

Sends game image to server

Receives game Information

Server
+URL_from_iOS_App:String

+send_URL_get_Game()

Server classifies and suggests the possible game and returns game information

Receives game image

Flow Diagram

gameGuru Flow Diagram

gameGuru
Sign Up
Sign In

Adding the details to database

Checking user credentials

Success

Fail

Fail

Alert

Main screen
Scan Game
Personal Information

Take a Photo

Server Classifies the game

Server sends the game info to the App

Sends image to Sever

<Back
Game Name
Description
Other information related to the game

<Back
Name
Email
Sign Out

Alert

State Diagram

gameGuru State Diagram

Sign In / Sign Up

Sign In / Sign Up via Google
Authenticates the User

Scan Game

Take a Photo/use from
Camera Library

Game Description

Gives detailed description of
the game

Deployment Diagram

gameGuru Deployment Diagram

Flask Server
App Backend
Firebase Database

TCP/IP

iOS App
User Interface

Storyboard

gameGuru Storyboard