

# CORONA KILLER

ADVANCED IOS APPLICATION DEVELOPMENT(MAD\_4114\_2021S)

## Team Members :

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# INTRODUCTION:

- This iOS Application is basically a game named Corona Killer.
- In this game main character is having vaccine in his hand, when corona virus(Enemy) fall towards him he can hit him with the vaccine and kill it.
- If Player Touched the virus accidentally, he will dead.
- Player can restart the game to play again.

# GAME DESCRIPTION:

## -: GameViewController:-

- This Application Starts with the page namely Login/signup Page by Selecting the Login Option, One need to enter the game with the appropriate credentials, elsewhere if the credentials are wrong error alert will popup.
- On the other hand, if one opt for the signup option , It will create a new user account and save the information in the database.
- Once the registration is done user will enter into the game. User will be logged in unless he/she logged out.

## GAME DESCRIPTION(Continue...):

### -:GameScene:-

- In the Game Screen , Play button will display to start the game.
- Player Characteristics are as follow:
  - ✓ Moves Left to Right as the touch moves
  - ✓ Shoots Vaccine on tap on the screen
  - ✓ Jump on swipe Up
  - ✓ One reward point on killing one virus
- With above mentioned characteristics of player, Player can Proceed the game.

# GAME DESCRIPTION(Continue...):

## -:Game Screen:-

- On the other hand, Enemy Characteristics are as follow:-
  - ✓ Enemy Virus Swings from top to bottom and moves in any random Position. If the Virus hits the player in the meanwhile player is dead.
  - ✓ Difficulty level increased based on the score exceeds 50 then after score is 100 virus become more faster.

## GAME DESCRIPTION(Continue...):

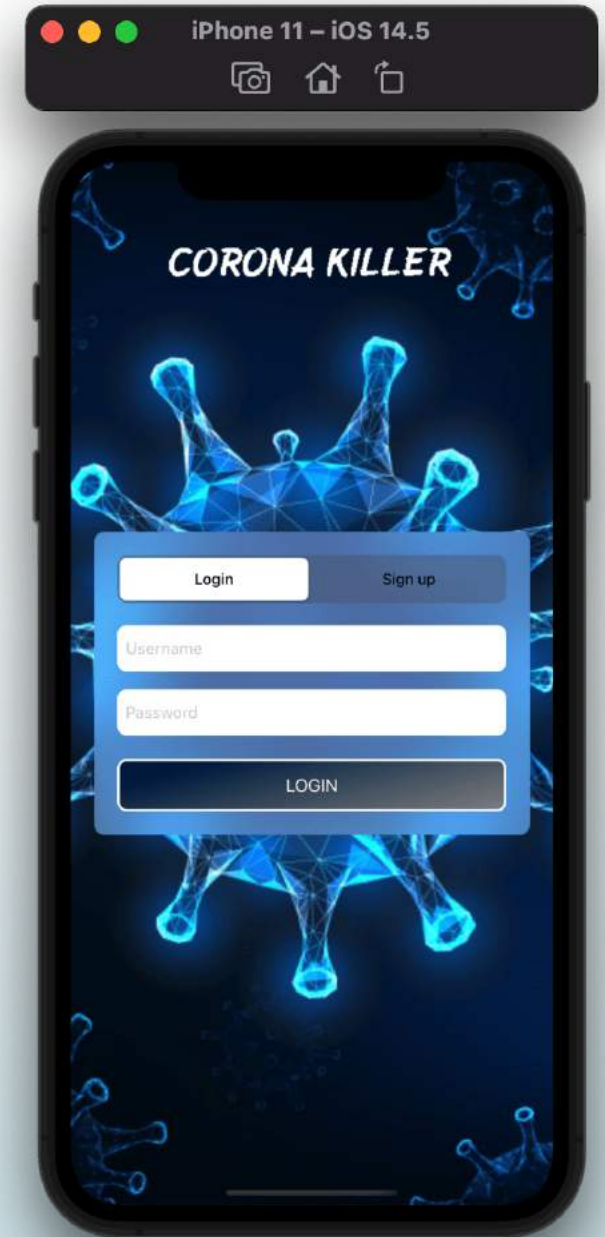
### -:Game Over:-

- On Player being Killed the details such as current score, exit button, replay button, top 3 players on the scoreboard will be displayed.
- By Selecting for replay, the game will restart.
- On Selection of exit button, Player will Logout.
- Score of each player is saved in Database with their respective user Account.

# How system works?

## 1) System requires login or signup

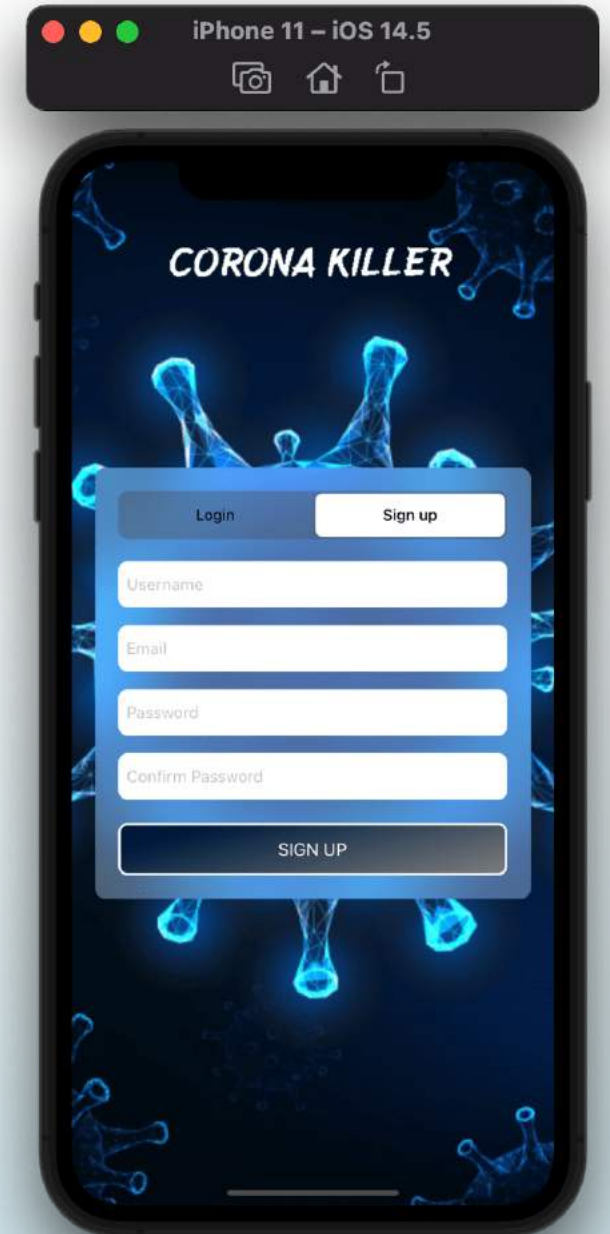
- Initially, this application shows the login screen.
- If an existing user, then using the login screen, he/she can enter the Game.



# How system works?(Continue)

## 2) Register the new User

- If there is a new user, then using Sign Up button, users can register themselves.
- In the registration process, the user needs to provide some basic information like Username, Email & Password.
- Click the Signup Button.

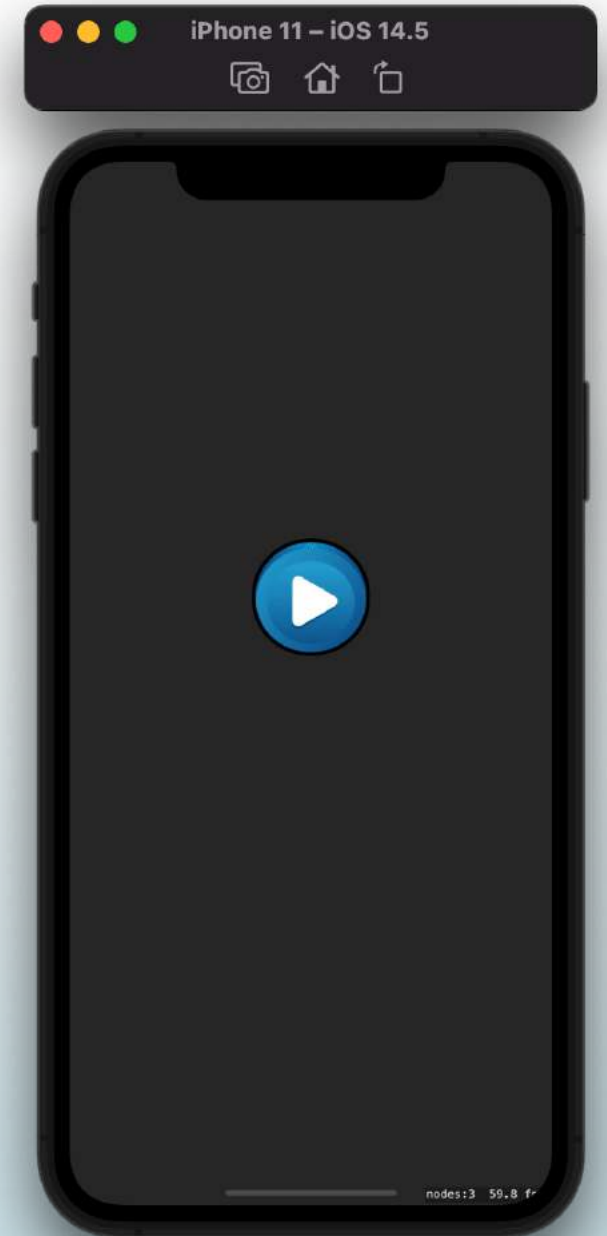




# How system works?(Continue)

## 3) Get Started

- Player just need to click the play button to start the Game.



# How system works?(Continue)

## 4) Main Screen

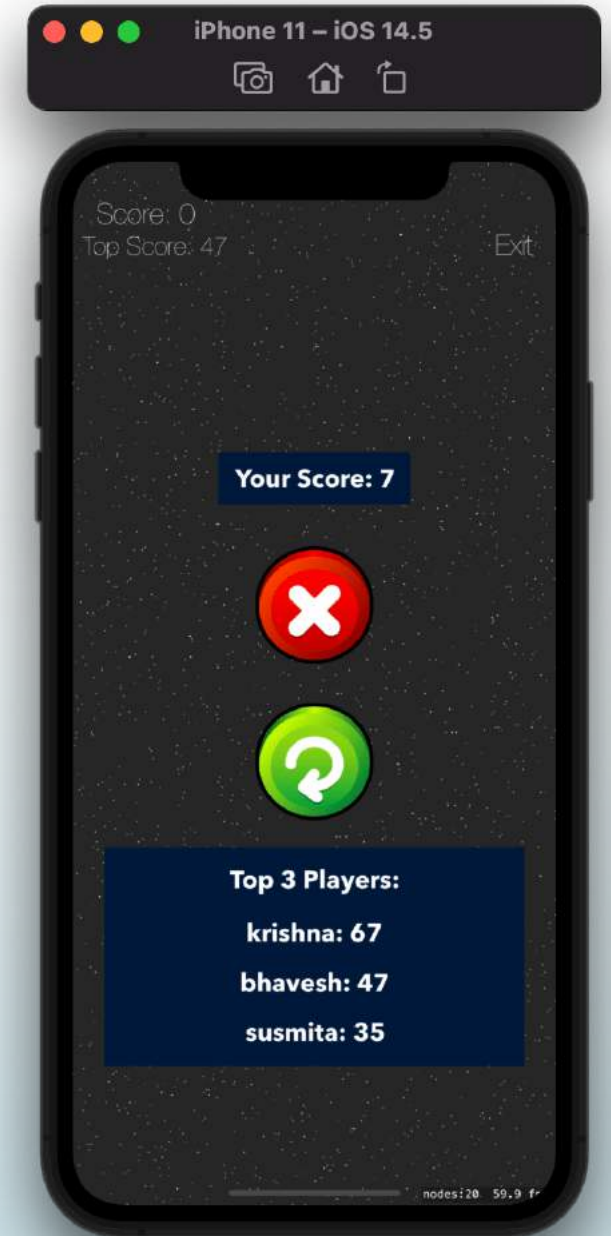
- In this Screen main character is having vaccine in his hand, when corona virus(Enemy) fall towards him he can hit him with the vaccine and kill it.
- If Player Touched the virus accidentally, he will dead, and game will over.
- Player can exit the Game anytime with the exit button on top right corner moreover he can track his current score on top left corner.



## How system works?(Continue)

### 5) Game Over

- If the user lost the game , he will get this screen.
- On this page there will be:-
  - ✓ Your current Score
  - ✓ Exit Button
  - ✓ Replay Button
  - ✓ Score of top 3 Players



# Work Distribution

- Idea and Core functionality of game like database, player physics, collision, rewards, top 3 score etc. was done by **Bhavesh Sharma** and **Gaganpreet Kaur**.
- Documentation(pdf), UI idea and all the assets of the game was provided by **Patel Krishna**.
- Login/Signup UI and flow was done by **Susmitha Vookanti** and **Arshitha Ralla**.

# GitHub Source Code

**Corona Killer:-** <https://github.com/bhaves18/corona-killer>

**Video Link:-**

[https://www.dropbox.com/s/xqcxlbh8abf8469/final\\_project.mov?dl=0](https://www.dropbox.com/s/xqcxlbh8abf8469/final_project.mov?dl=0)

# References

- <https://stackoverflow.com/questions/43336790/dismiss-skscene-go-back-to-uikit-menu>
- <https://www.flaticon.com>
- <https://rebeloper.com/blog/how-to-add-a-button-in-spritekit-and-swift-4-part-1-create-an-iphone-game-using-swift>



**THANK YOU**