





### What is our GOAL for this MODULE?

We used our knowledge about OOPs programming style and created a form using p5 dom and log the players in the database.

## What did we ACHIEVE in the class TODAY?

- Designed a form using p5 dom to allow players to login and log the player names to the database.
- Logged the gamestate and the playercount.
- Used the OOPs programming style to write the code.

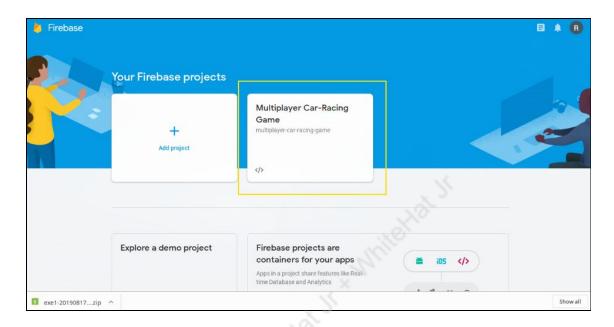
# Which CONCEPTS/CODING BLOCKS did we cover today?

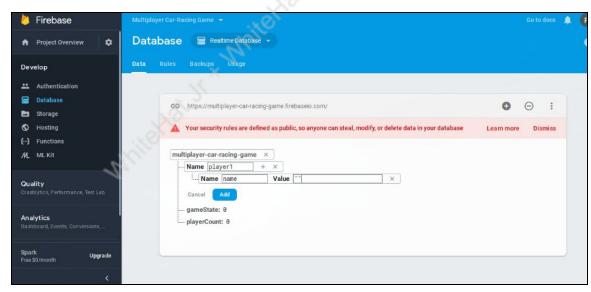
- OOPs programming concept.
- Firebase database.
- Game states.
- p5 dom.



### How did we DO the activities?

1. Login to Firebase and Update the previous database as shown below.





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2. Create a new folder in our directory called js which will contain the blueprint of the 2 objects in our game - Game and Form.

```
File Edit Selection View Go Debug Terminal Help

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```



3. Include global variables in the sketch.js file.

4. Create a game class where we can listen to and update the database.

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5. Create Form class to register the players.

```
is is Form.js is form is @display
class Form {
    constructor() {
    display(){
        var title - createElement('h2')
        title.html("Car Racing Game");
        title.position(130, 0);

        var input - createInput("Name");
        var button = createButton('Play');
        var greeting = createElement('h3');

    input.position(130, 160);
    button.position(250, 200);

    input.position(250, 200);
}
```

6. Add mousePressed function to trigger the action when the mouse has been pressed.



7. Add the code in our sketch.js file to create a new Game object, get the gameState and start the game.

```
sketch.js > ② setup

var canvas, backgroundImage;

var gameState = 0;

var playerCount;

var database;

var form, player, game;

function setup(){
    canvas = createCanvas(400,400);
    database = firebase.database();
    game = new Game();
    game.start();
}

function draw(){

particle | particle |
```

8. Run the code and check for bugs and debug them.





Car Racing Game
Hello Rajeev

## What's next?

In the next class, you will be creating a multiplayer car racing game.

# **EXTEND YOUR KNOWLEDGE:**

1. Read this document for creating forms in p5: https://p5js.org/examples/dom-input-and-button.html