

What is our GOAL for this MODULE?

The goal for this module is to assign the rank to each player.

What did we ACHIEVE in the class TODAY?

We created a new property for each player called "rank" and displayed the rank of each player when the game ended.

Which CONCEPTS/CODING BLOCKS did we cover today?

• Creating a leaderboard and assigning the rank.

How did we DO the activities?

We gave rank in a racing game

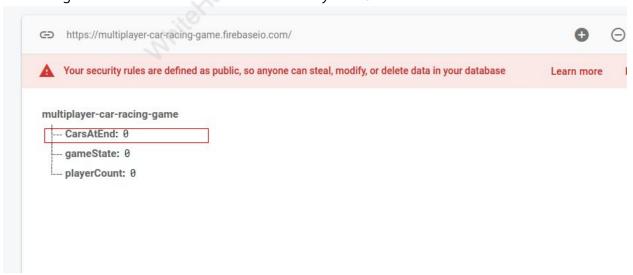
We built a leaderboard that ranks the player according to when the players finished the game. It will tell who came first, second, third or fourth.

We added a property called 'rank' for each player.



```
JS sketch.js
                JS Player.js X
js > 🎜 Player.js > ધ Player > 🕤 update
         constructor(){
           this.index = null;
            this.distance = \theta;
           this.name = null;
           this.rank = null;
         getCount(){
            var playerCountRef = database.ref('playerCount');
           playerCountRef.on("value",(data)=>{
              playerCount = data.val();
                                                                       (koʻlini si
         updateCount(count){
           database.ref('/').update({
              playerCount: count
           var playerIndex = "players/player" + this.index;
database.ref(playerIndex).set({
    name:this.name,
         update(){
              distance: this. distance
         static getPlayerInfo(){
            var playerInfoRef = database.ref
           playerInfoRef.on("value",(data)=>{
```

We changed the database to create a new entry for "CarsAtEnd".



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We wrote static functions - getCarsAtEnd() and updateCarsAtEnd() to get and update the number of cars which have finished the race.

```
JS sketch.js
                                                                                    JS Player.js X JS Game.js
js > JS Player.js > 13 Player > 10 update
                                                                         name: this.name,
       26
                                                                         distance: this. distance
                                                  static getPlayerInfo(){
                                                              var playerInfoRef = database.ref('players');
playerInfoRef.on("value",(data)=>{
                                                                                                                                                                                                        Militaria January Militaria Maria Ma
                                                                         allPlayers = data.val();
                                                  static getCarsAtEnd() {
                                                              database.ref('CarsAtEnd').on("value",(data)=>{
                                                                           this.rank = data.val();
                                                  static updateCarsAtEnd(rank) {
                                                               database.ref('/').update({
                                                                          CarsAtEnd: rank
```



```
is 🗦 🎜 Game.js 🗦 😘 Game 🗦 😭 play
         car4.addImage("car4",car4 img);
         cars = [car1, car2, car3, car4];
       play(){
         form.hide();
         Player getPlayerInfo():
         Player.getCarsAtEnd();
         if(allPlayers !== undefined){
           background(rgb(198,135,103));
           image(track, 0,-displayHeight*4,displayWidth, displayHeight*5);
                                                   Jr. whiteHall
           var index = 0;
           for(var plr in allPlayers){
             index = index + 1;
             //position the cars a little away from Gach other in x direction
             x = x + 200;
                    WhiteHat Jr x W
```



```
Camera.position.y - carstinuex-11.y;
  if(keyIsDown(UP ARROW) && player.index !== null){
   player.distance +=10
   player.update();
  if(player.distance > 3860){
  gameState = 2;
                                    Nat It x Inhite Hat It
   player.rank +=1
   Player.updateCarsAtEnd(player.rank)
 drawSprites();
end(){
 console.log("Game Ended");
 console.log(player.rank);
           White Hat Jr + White
```



Code to display the rank of each player:

```
Game > 💮 play — carstinuex-13.y,
         if(keyIsDown(UP_ARROW) && player.index !== null){
           player.distance +=10
           player.update();
                                         Inite Hal Jr x Inhile Hal Jr
         if(player.distance > 3860){
           gameState = 2;
           player.rank +=1
           Player.updateCarsAtEnd(player.rank)
         drawSprites();
102
103
104
105
         console.log("Game Ended");
         console.log(player.rank);
106
107
```

What's next?

In the next class, you will be doing JavaScript review.

Extend Your Knowledge: