# Astro Ride

An eco-free ride

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### Problem Statement

- A cross platform management system to rent an electric bike, assuming thereare e-bike stations installed in the city.
- User can scan the QR code from the bike to rent a ride.
- On reaching the destination user has to again scan the QR code to end the ride.

# **MOTIVATION**

- The main motivation is to have an e-bike management system in our campus.
- It is designed for a quick ride to go to a nearby location.
- For the students who need to visit a nearby shop.
- It would be beneficial for the general population as well.



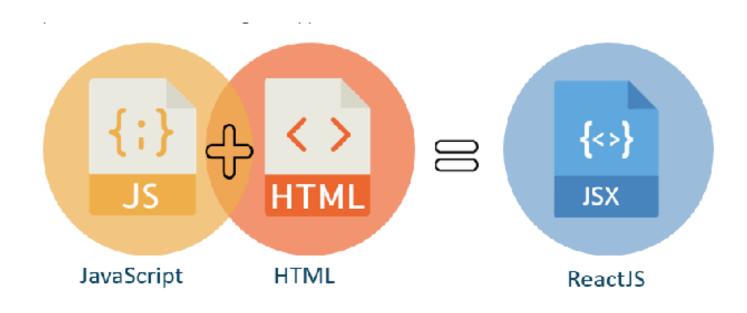
# Platforms and Languages used



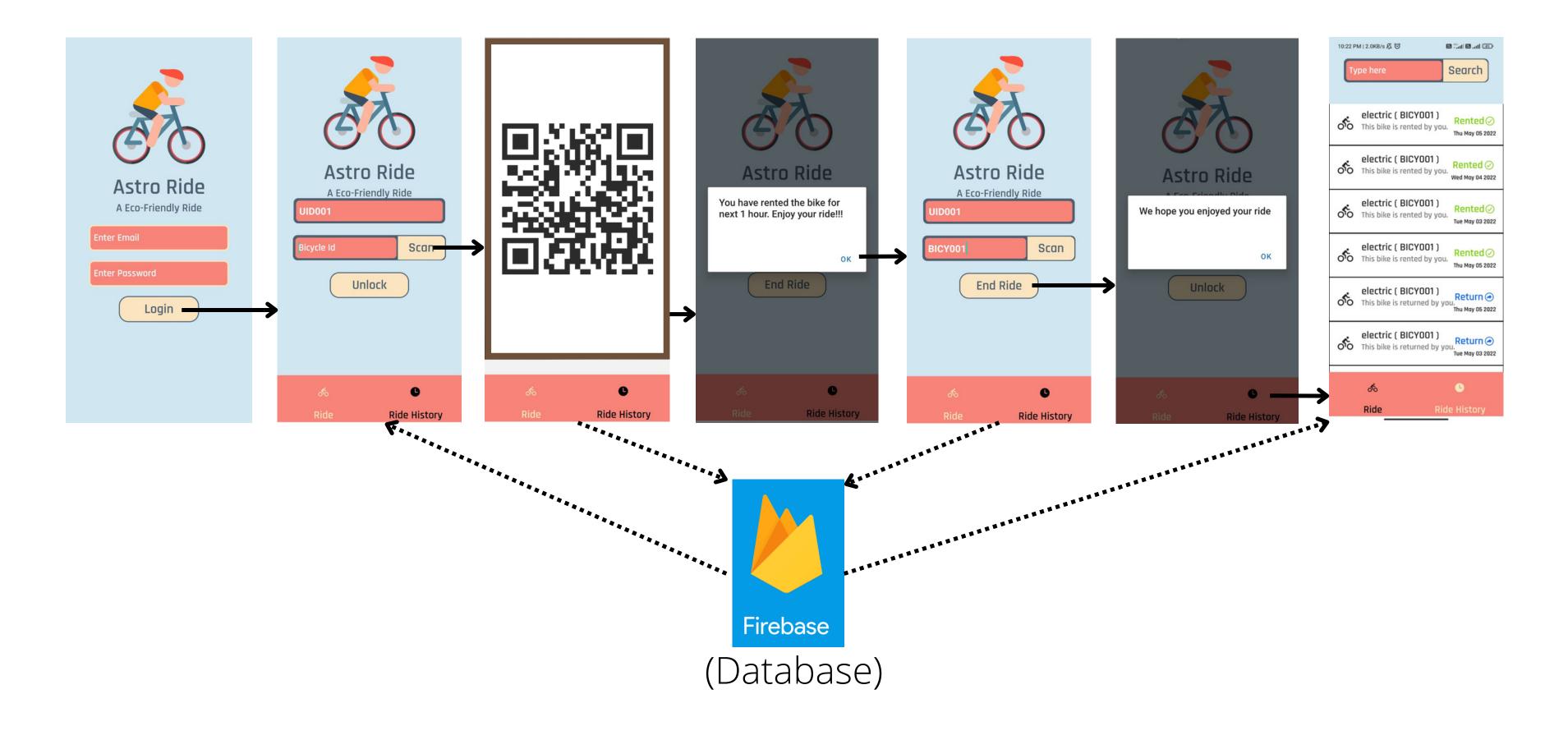








# Framework



# Modules and Submodules

#### Login Screen

- Input Email and Password
- Authenticating using firebase authentication

#### Ride Screen

- Adding user data from the database by comparing email.
- Get camera permissions and scanning the barcode.
- After pressing unlock -> handleTransaction

#### HandleTransaction

- Get Bike details
- transaction Type -> checkBikeAvailability
- if bike is available then returns rented else return
- if (transaction Type = false or underMaintainance) then, show error message.
- else (if transaction Type = "rented"), assign the bike after checking user eligibility to start ride.
- else (if transaction Type = "return"), end the ride after checking user eligibility to end ride.

```
✓ assets

 adaptive-icon.png
 applcon.png
 background1.png
 background2.png
 bicycle.png
 favicon.png
 logo.png
 logo1.png
components
 JS BottomTabNavigato...
> node_modules

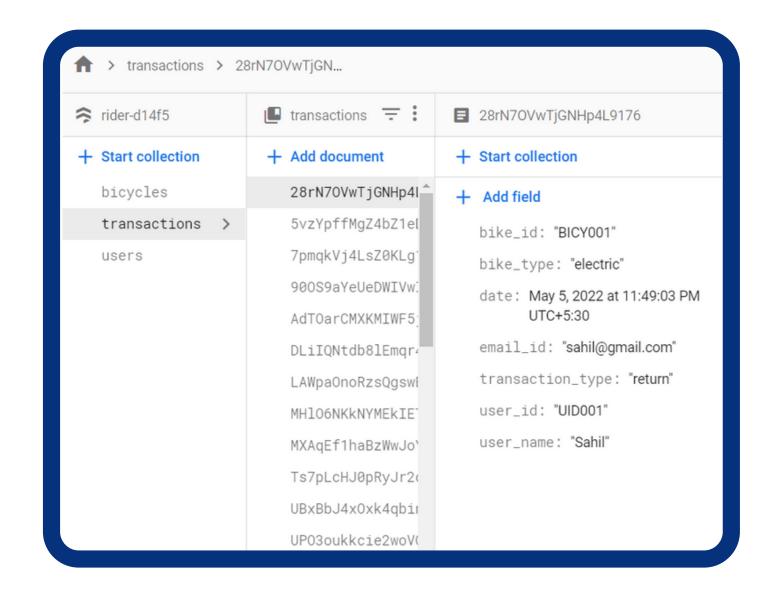
✓ screens

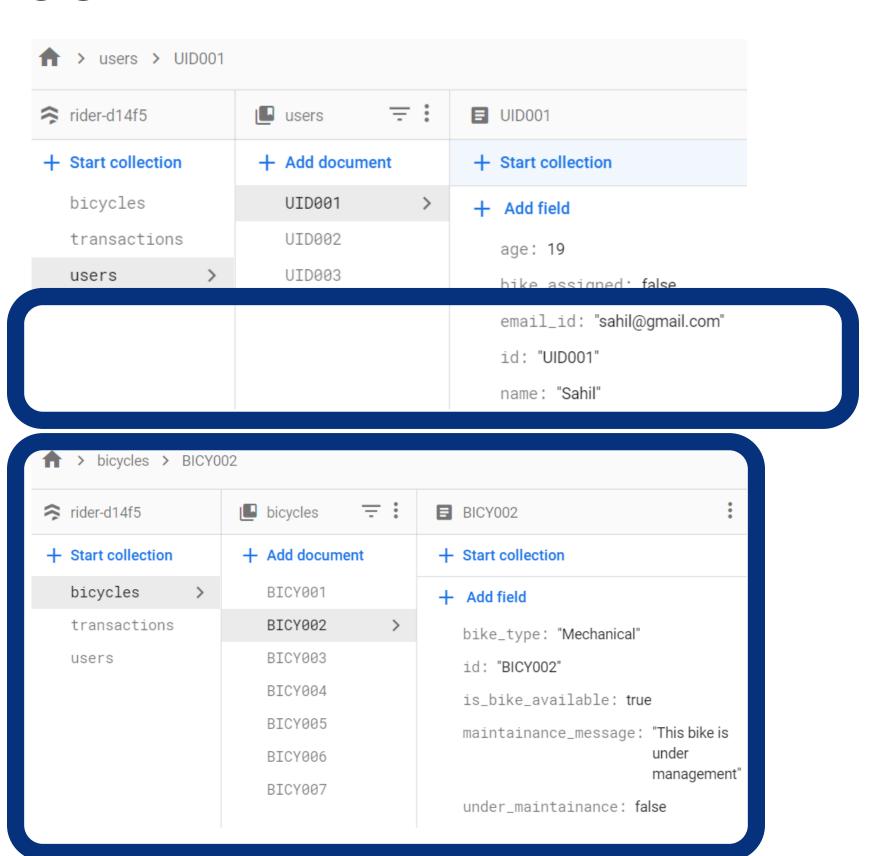
 JS Login.js
 JS Ride.js
 JS RideHistory.js
  .gitignore
JS App.js
{} app.json
babel.config.js
JS config.js
  package-lock.json
package.json
```

# **Modules and Submodules**

#### Firebase Database Configuration

- User
- Bicycle
- Transaction





# **Modules and Submodules**

#### Ride History and Search Screen

- Get10 transactions based on user email id.
- Render these transactions as default on the screen using flatlist component.
- Get Input as bike id from the user and get transactions based on that bike id and email id.
- When the user reaches the end of the content, another 10 transactions will be load.

#### assets adaptive-icon.png applcon.png background1.png background2.png bicycle.png favicon.png logo.png logo1.png components JS BottomTabNavigato... > node\_modules ✓ screens JS Login.js JS Ride.js JS RideHistory.js .gitignore JS App.js {} app.json Babel.config.js JS config.js {} package-lock.json

package.json

