

**Objective:** Develop a responsive front-end dashboard for a cloud robotics platform using React.js, HTML5, CSS3. The dashboard should include user authentication, and display a list of robots with their details (name, dimensions, sensor type, image). You will also be responsible for creating a dummy database for storing robot information and handling user authentication.

**Requirements:**

- Implement a user authentication system. You should create a dummy user database that stores user information securely.
- Users should only be able to view the dashboard and robot details after they have logged in.
- After successful login, display a list of robots with their name. Each robot name should be a clickable element that takes the user to a detail page for that robot.
- Create a dummy robots database that includes the information you need to display (robot name, dimensions, sensor type, and image URL).
- When a user clicks on a robot name in the dashboard, they should be taken to a detail page for that robot. The robot detail page should display the robot's name, dimensions, sensor type, and an image of the robot. The image should be loaded from the URL provided in the robots database. Data should be retrieved from your dummy database.
- Along with the above information, show the NICE DCV session of EC2 instance on the same page. (<https://ec2-3-86-24-118.compute-1.amazonaws.com:8443/>)

**Optional:**

- Design a simple architecture for the above application utilizing AWS services.

**Example Database -**

id (PK)	name	width	length	height	sensor_type	image_url
1	TurtleBot2	0.35m	0.45m	0.15m	RGB Camera	<a href="https://turtlebot2.jpg">https://turtlebot2.jpg</a>
2	TurtleBot3	0.14m	0.19m	0.13m	Lidar	<a href="https://turtlebot3.jpg">https://turtlebot3.jpg</a>
3	Jackal	0.51m	0.81m	0.38m	Lidar	<a href="https://jackal.jpg">https://jackal.jpg</a>

In this,

id is a primary key that uniquely identifies each robot.

name is the name of the robot.

width, length, and height are the dimensions of the robot.

sensor\_type is the type of sensor the robot is equipped with.

image\_url is the URL of an image of the robot.

**Deliverables:**

- A link to the Git repository with your code.
- A recorded video of you demonstrating the functionality of your application.

**Duration:** 4 days