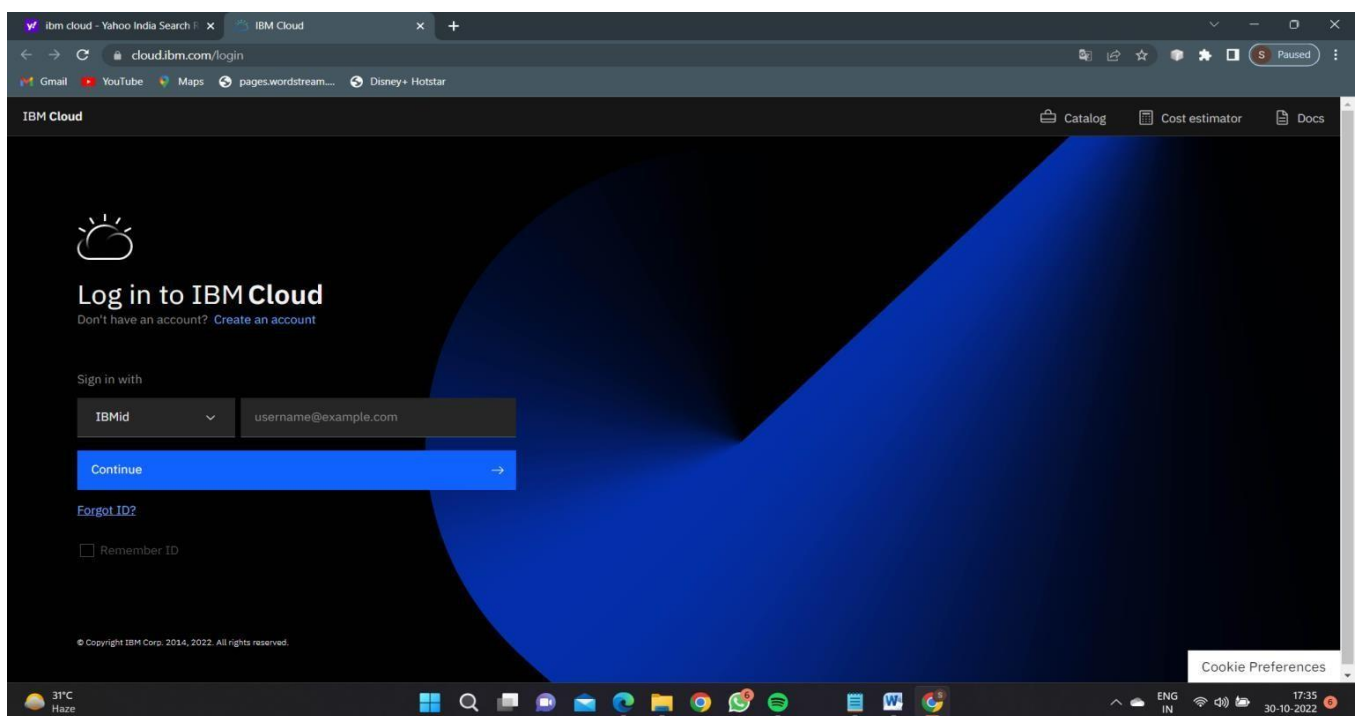


## CREATE IBM WATSON IOT PLATFORM AND DEVICE

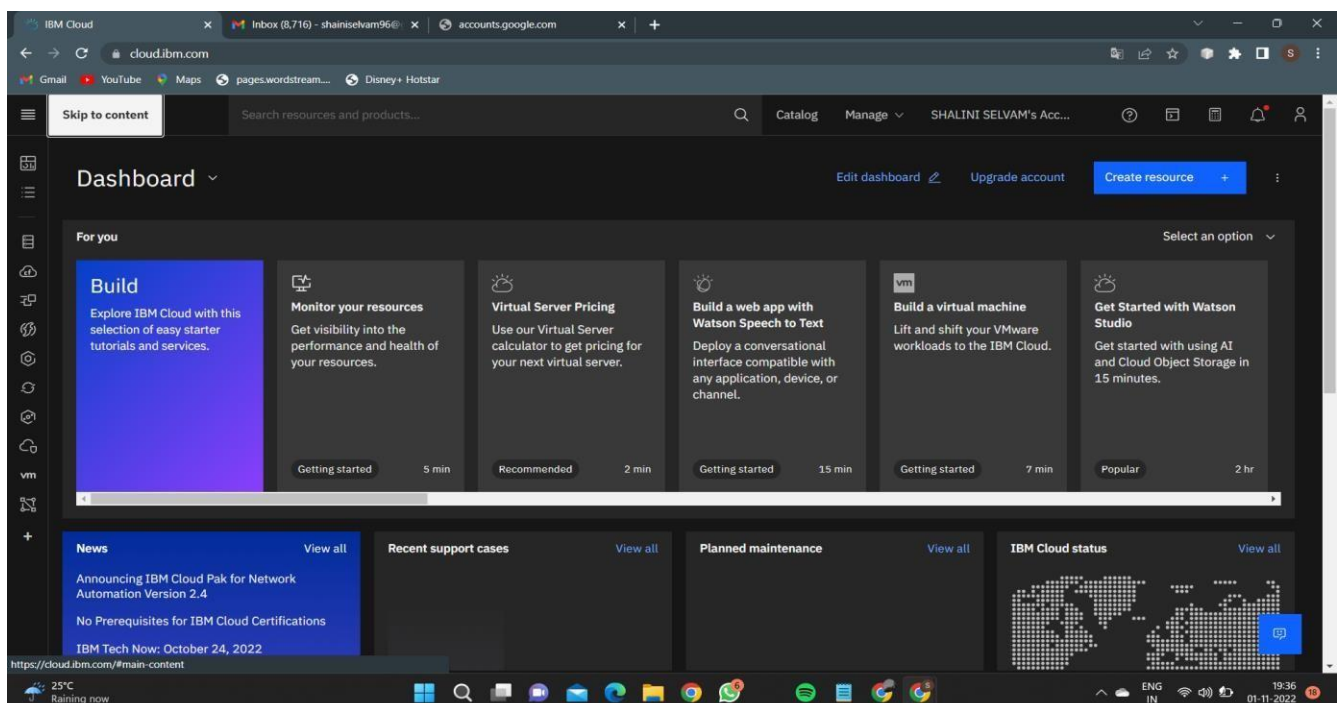
<b>Date</b>	<b>26-10-2022</b>
<b>Team ID</b>	<b>PNT2022TMID17348</b>
<b>Project Name</b>	<b>Project - IOT based safety gadget for child safety monitoring and notification</b>
<b>Maximum Marks</b>	<b>4 Marks</b>

### STEPS:

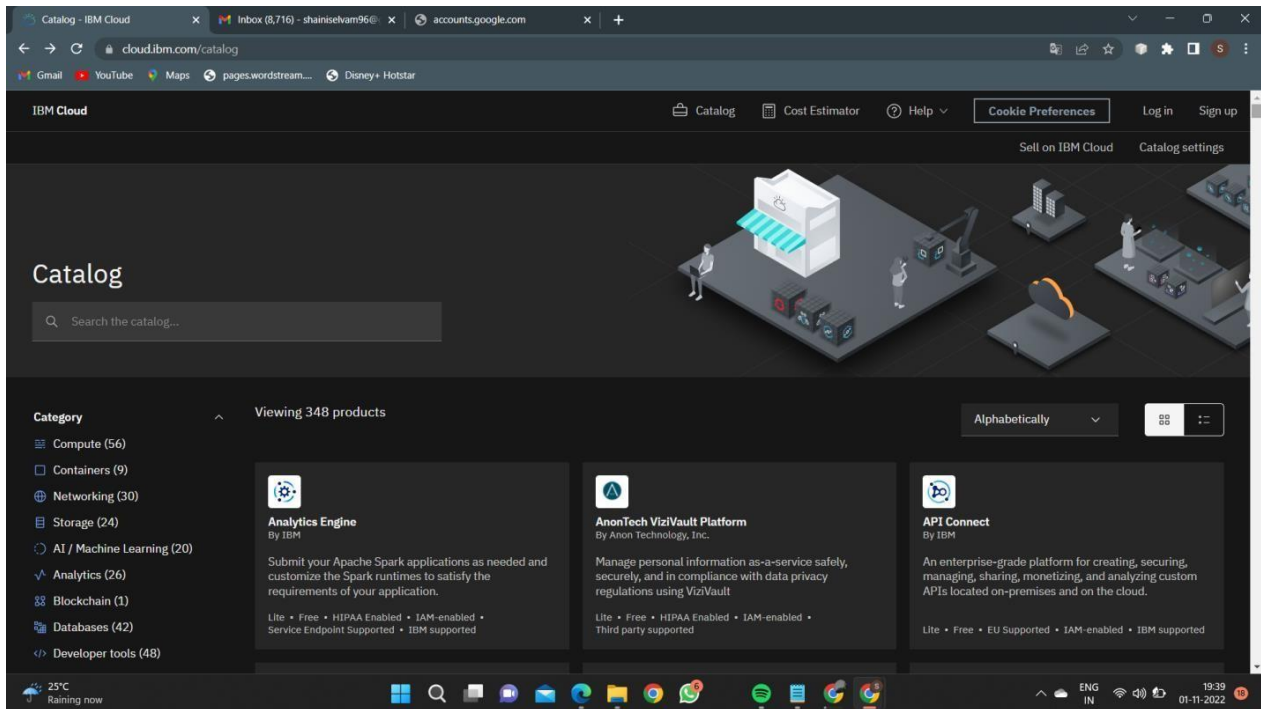
1. First create an IBM cloud account with IBMid and password



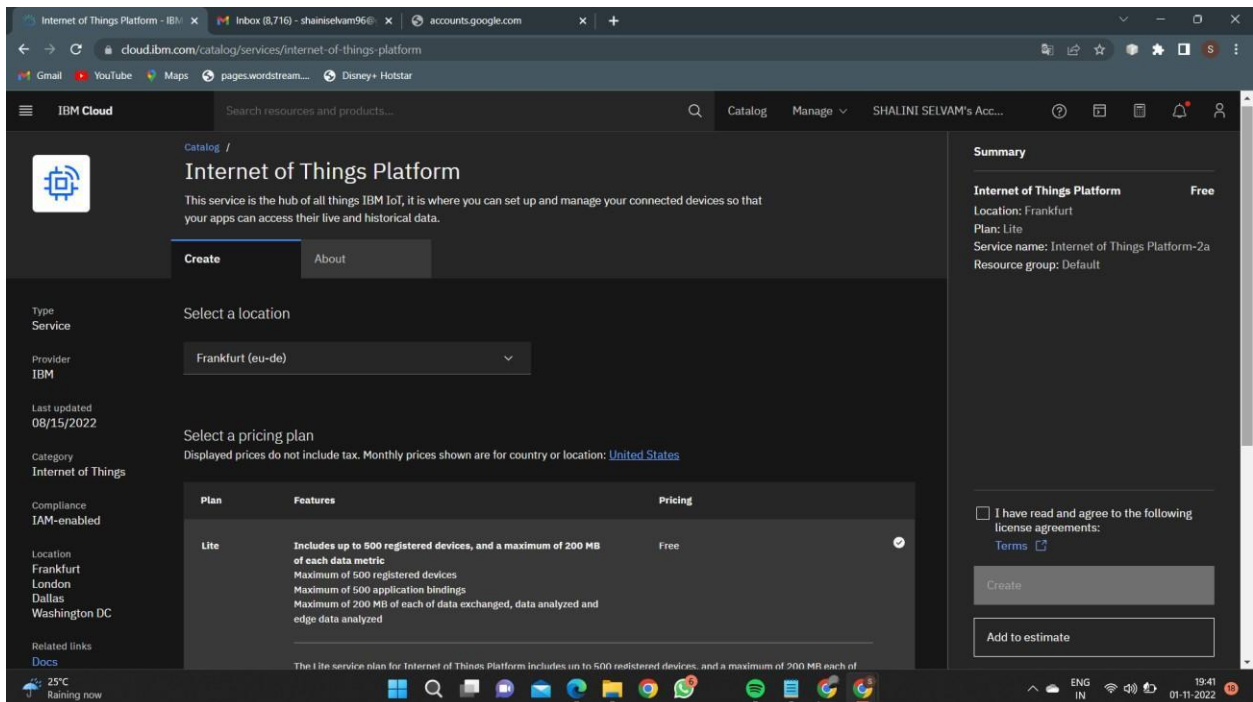
2. Home page of IBM cloud



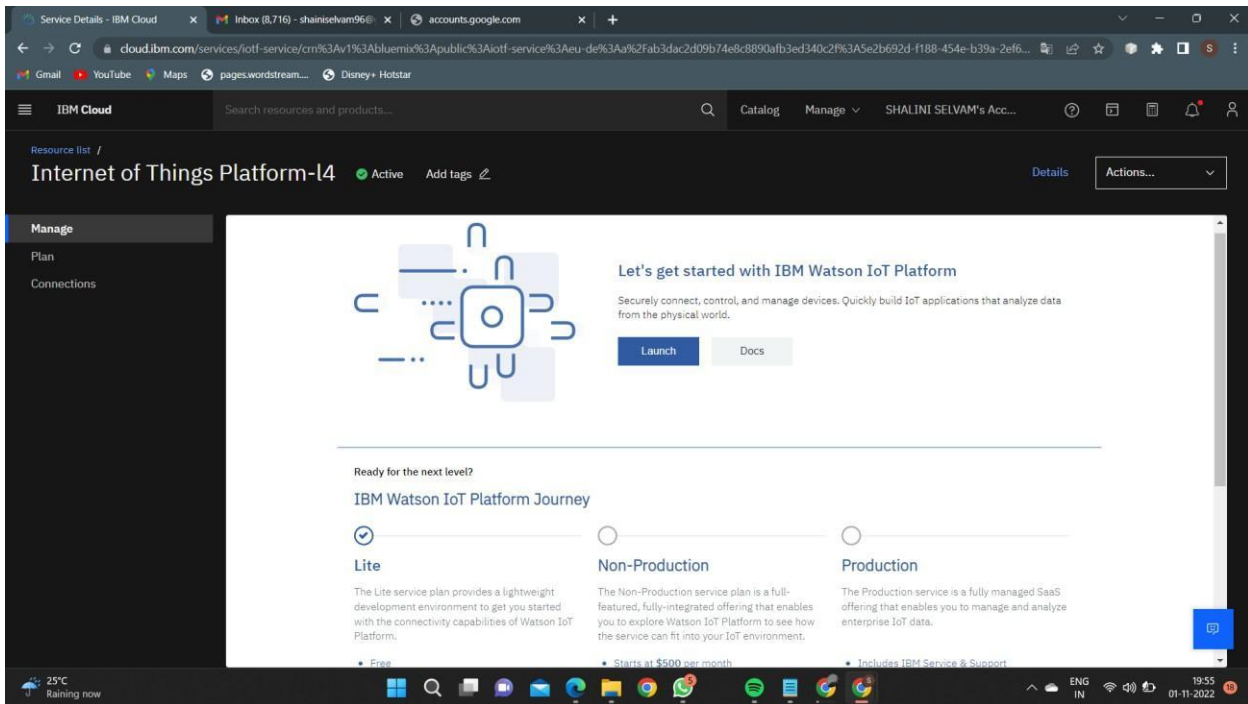
### 3. Click on the catalog on the top. Search for INTERNET OF THINGS PLATFORM



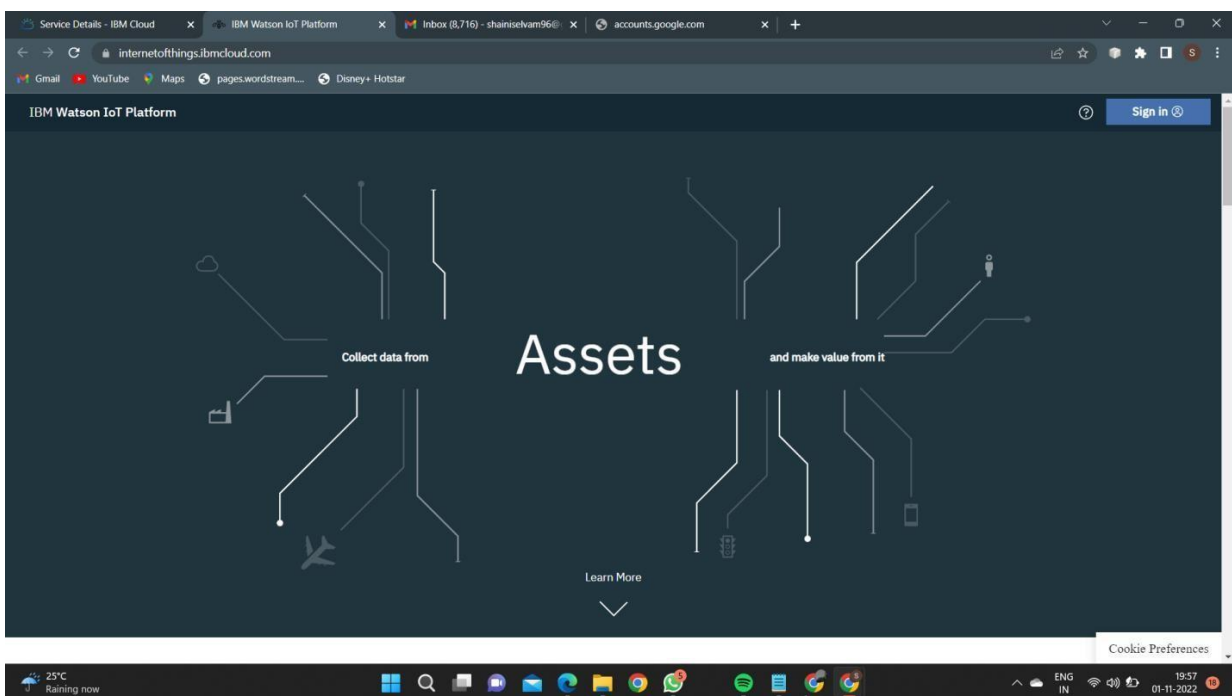
### 4. Enter the location and in the configure your resource type the service name and choose the plan, tick the agree with agreements and then click on create



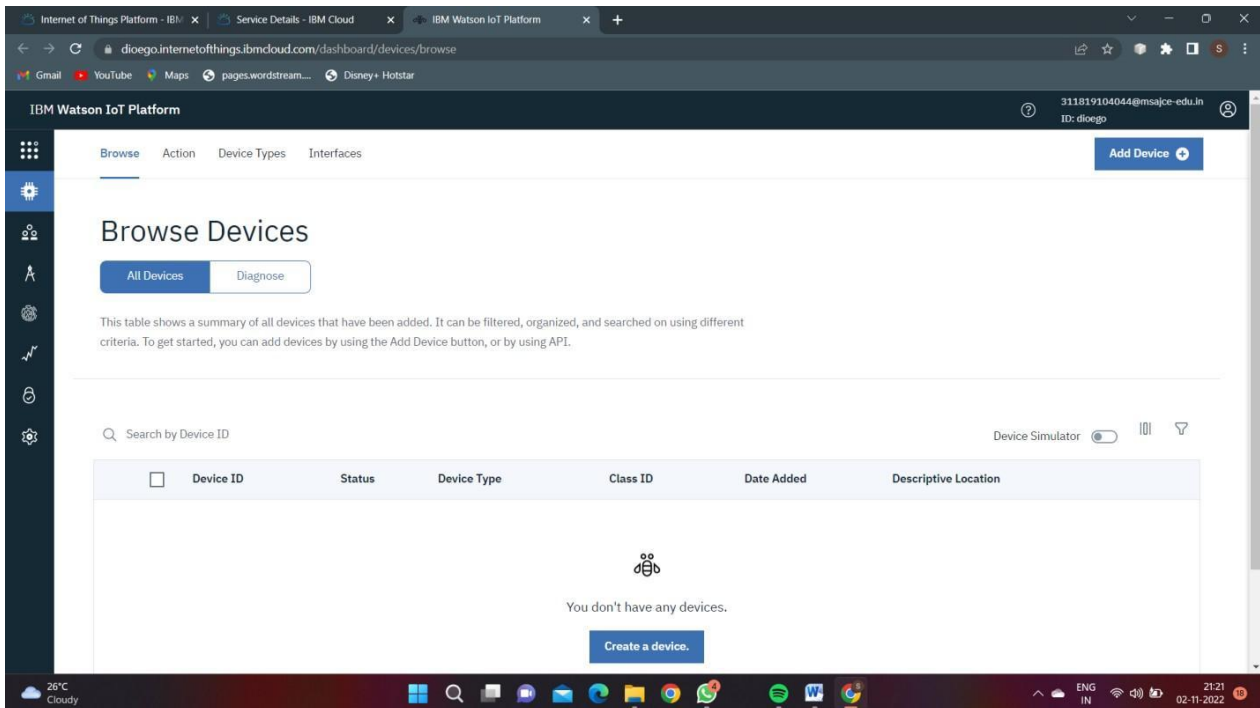
5. Internet of Things Platform Child\_safety will be created, where there are different options like manage, plan, and connection (manage is for launch, Plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IoT with other services). Click on launch.



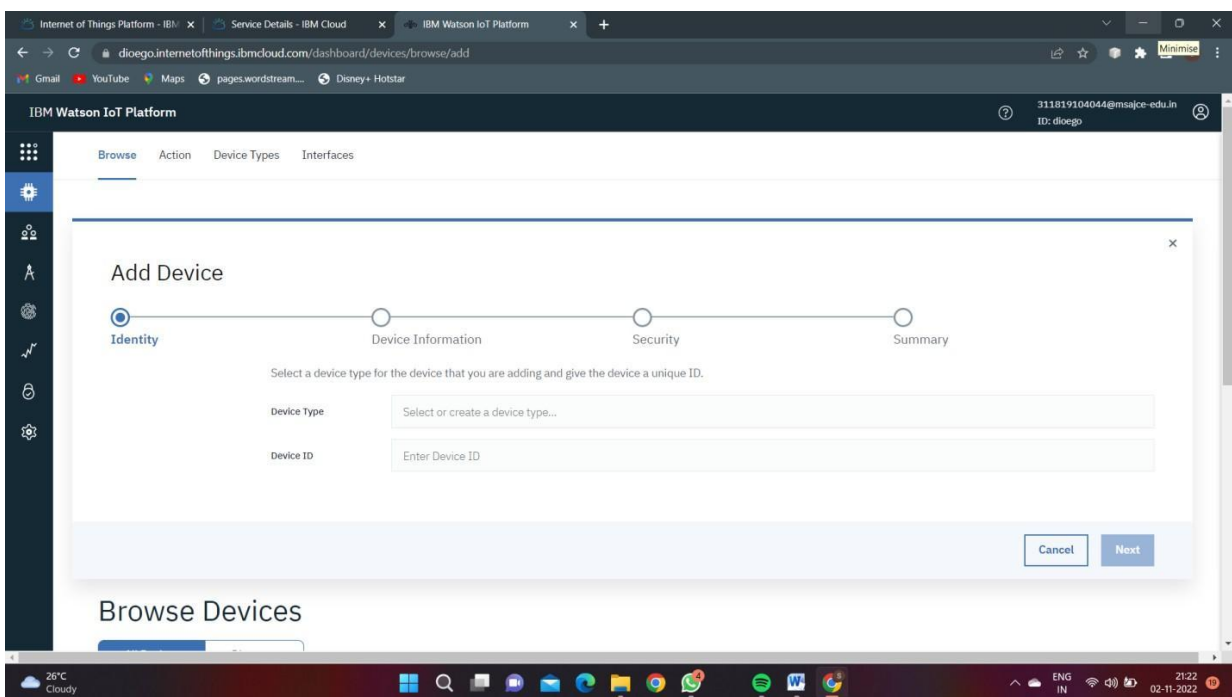
6. Now you need to sign in. Enter the details to sign in to the Watson Cloud to create a device.



7. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices



8. Click on the device tab and click on the add device button, then give the device type and device id and click next



9. This page to enter extra details and of the hardware

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The progress bar indicates four steps: Identity (completed), Device Information (current), Security, and Summary. The 'Device Information' step contains two columns of input fields. The left column includes 'Serial Number', 'Model', 'Description', and 'Hardware Version'. The right column includes 'Manufacturer', 'Device Class', 'Firmware Version', and 'Descriptive Location'. Each field has a placeholder text like 'Enter Serial Number'. Below these fields is an 'Add Metadata' button with a plus icon. The top navigation bar shows 'Browse', 'Action', 'Device Types', and 'Interfaces'. The user's profile and ID are visible in the top right corner.

Field	Placeholder
Serial Number	Enter Serial Number
Model	Enter Model
Description	Enter Description
Hardware Version	Enter Hardware Version
Manufacturer	Enter Manufacturer
Device Class	Enter Device Class
Firmware Version	Enter Firmware Version
Descriptive Location	Enter Descriptive Location

10. Clicking next it goes to the security where we do authentication token id.

The screenshot shows the 'Add Device' wizard at the 'Security' step. The progress bar shows 'Identity' and 'Device Information' as completed steps. The 'Security' step presents two options for selecting a device authentication token. The first option, 'Auto-generated authentication token (default)', explains that the service will generate an 18-character alphanumeric token. The second option, 'Self-provided authentication token', requires the user to provide their own token, which must be 8-36 characters long and contain a mix of lowercase letters, uppercase letters, numbers, and symbols. Below these options is an 'Authentication Token' input field with a placeholder 'Enter an optional token'. A note at the bottom states: 'Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.' The top navigation bar and user information are consistent with the previous screenshot.

**Auto-generated authentication token (default)**

Allow the service to generate an authentication token for you. Tokens are 18 characters and contain a mix of alphanumeric characters and symbols. The token is returned to you at the end of the device registration process.

**Self-provided authentication token**

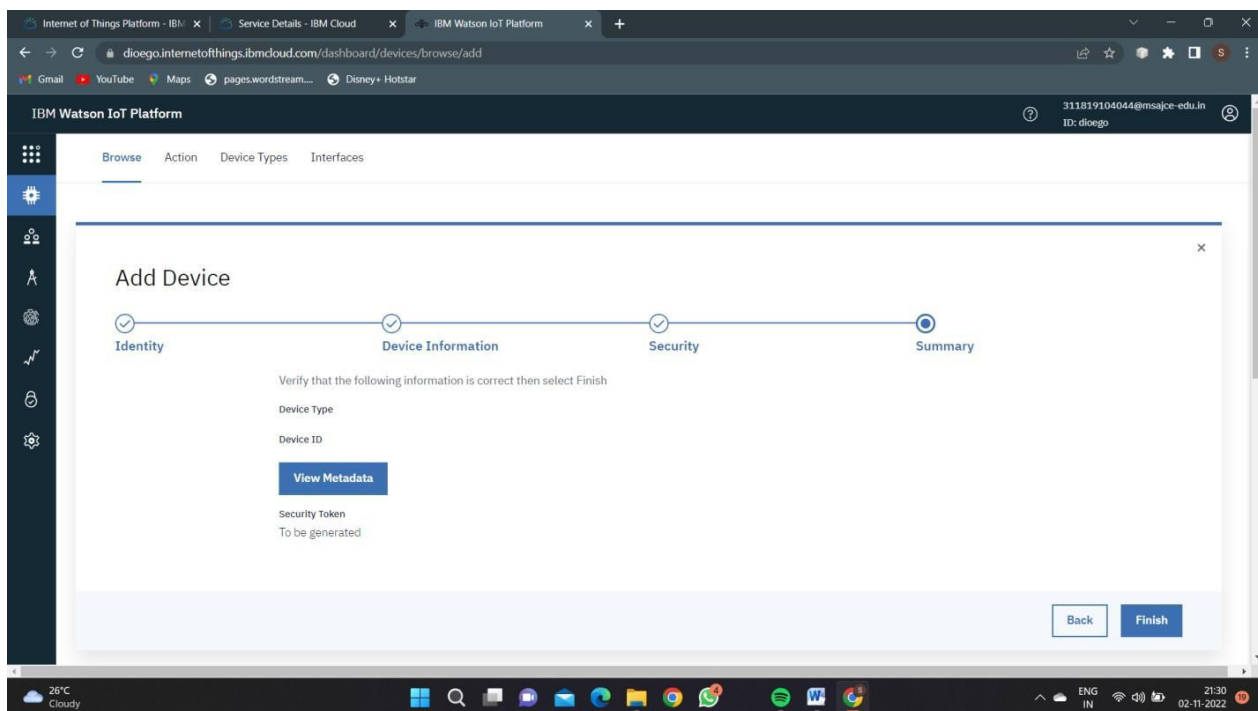
Provide your own authentication token for this device. The token must be between 8 and 36 characters and contain a mix of lowercase and uppercase letters, numbers, and symbols, which can include hyphens, underscores, and periods. Do not use repeated characters, dictionary words, user names, or other predefined sequences.

Authentication Token:

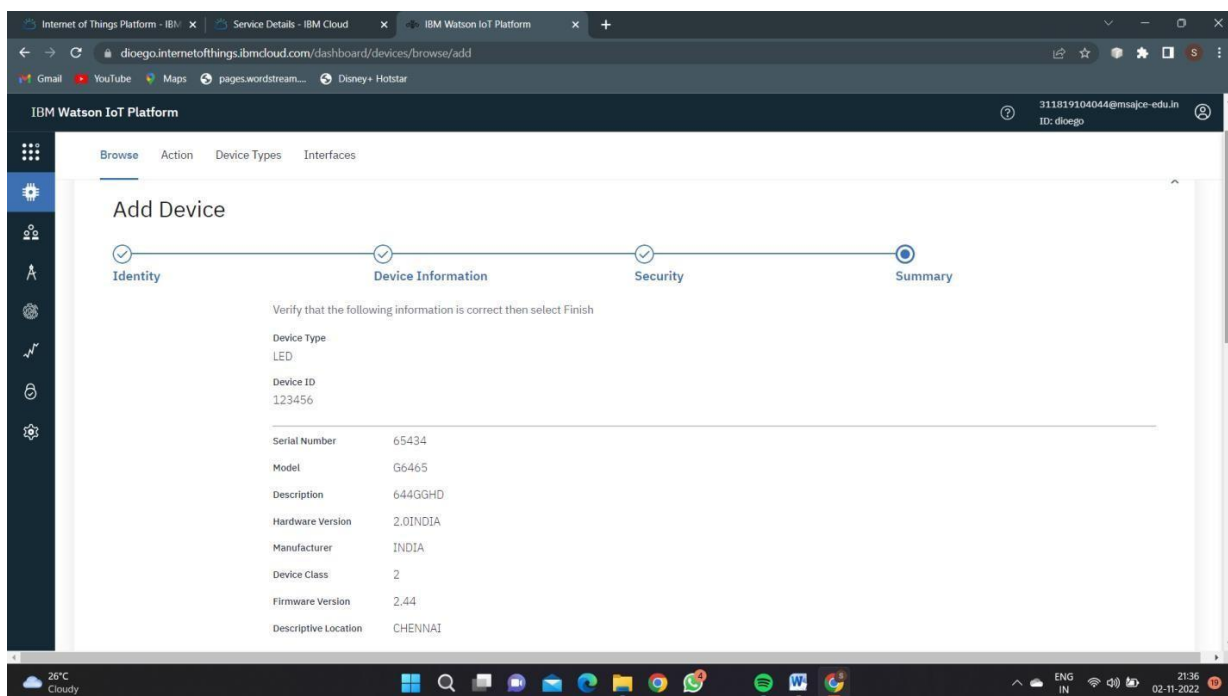
Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.



11. Clicking on next it goes to the summary of the device then click finish



12. The device credentials will be displayed with all the details. Safe the details of the device as the authentication tokens are non- recoverable and if misplaced then we have to create a new one.



13. Clicking on the device tab we can now see the added device. Clicking on it will display the other details. It has different tabs like identity, Device Information, State and Login

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Browse' tab is active, showing the 'Browse Devices' page. The page header includes the user's email '311819104044@msajce-edu.in' and ID 'dioego'. The main content area features a 'Browse Devices' section with a table of devices. The table has columns for Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. A single device is listed with ID 123456, Status Disconnected, Device Type LED, Class ID Device, Date Added Nov 2, 2022 9:37 PM, and Descriptive Location CHENNAI. The page also includes a search bar, a 'Device Simulator' toggle, and pagination controls.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
123456	Disconnected	LED	Device	Nov 2, 2022 9:37 PM	CHENNAI