

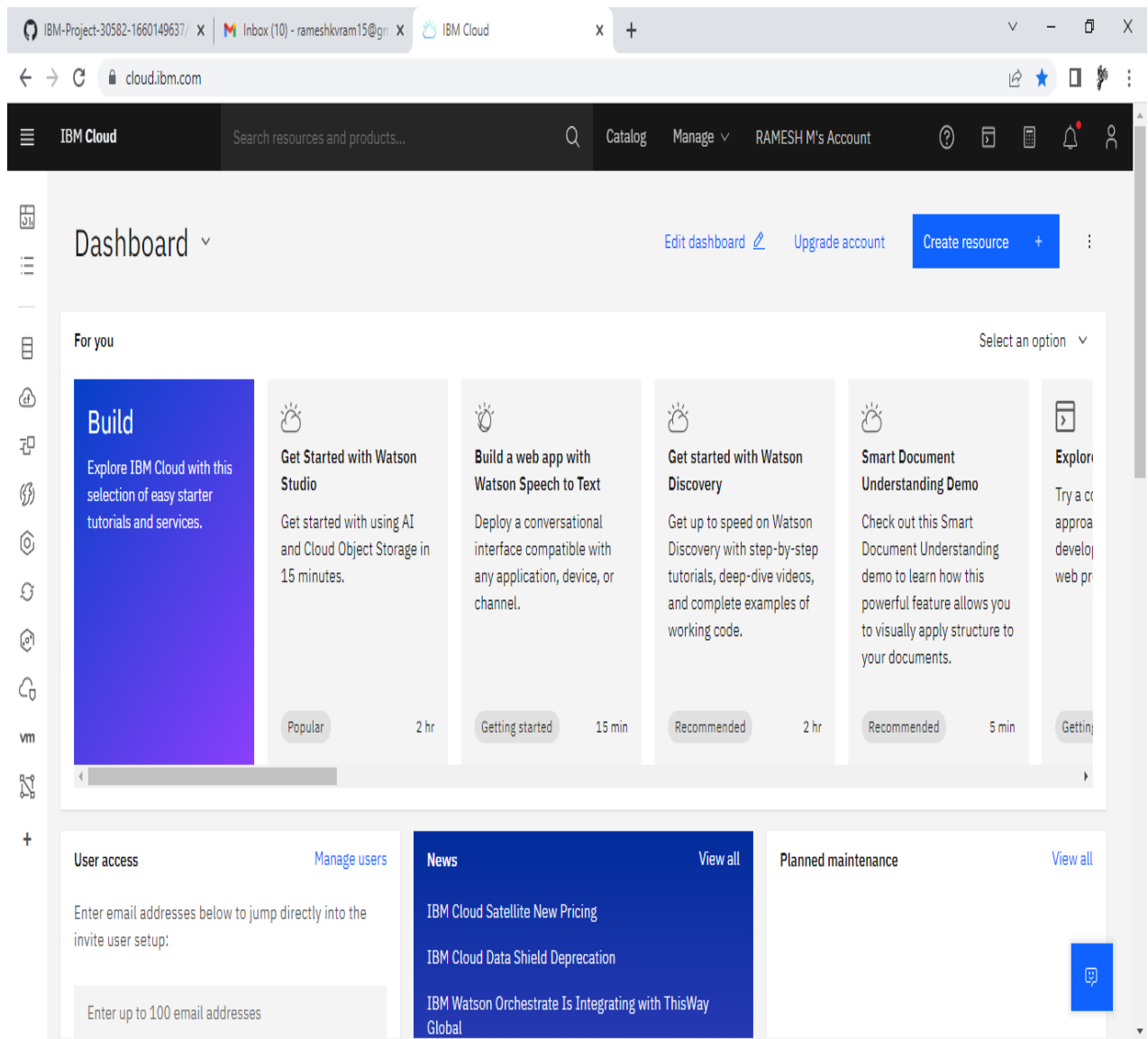
Project development phase

Sprint-1

Date	29 October 2022
Team ID	PNT2022TMID48312
Project Name	Real-time river water quality monitoring and control system

USN-1

As a user, I will register in ICTA academy and create IBM cloud account.



The screenshot displays the IBM Cloud Dashboard interface. At the top, the browser address bar shows 'cloud.ibm.com'. The dashboard header includes the IBM Cloud logo, a search bar, and navigation links for 'Catalog', 'Manage', and 'RAMESH M's Account'. The main content area is titled 'Dashboard' and features a 'For you' section with several recommended resources. These include 'Build' (Explore IBM Cloud with this selection of easy starter tutorials and services), 'Get Started with Watson Studio' (Get started with using AI and Cloud Object Storage in 15 minutes), 'Build a web app with Watson Speech to Text' (Deploy a conversational interface compatible with any application, device, or channel), 'Get started with Watson Discovery' (Get up to speed on Watson Discovery with step-by-step tutorials, deep-dive videos, and complete examples of working code), 'Smart Document Understanding Demo' (Check out this Smart Document Understanding demo to learn how this powerful feature allows you to visually apply structure to your documents), and 'Explore' (Try a cloud approach to develop web projects). Below the 'For you' section, there are three main panels: 'User access' (Manage users), 'News' (View all), and 'Planned maintenance' (View all). The 'User access' panel includes a form to enter email addresses for user setup. The 'News' panel lists recent updates, including 'IBM Cloud Satellite New Pricing', 'IBM Cloud Data Shield Deprecation', and 'IBM Watson Orchestrator Is Integrating with ThisWay Global'. The 'Planned maintenance' panel is currently empty.

USN-2

As a user, I will access IBM cloud and launch the IBM Watson IOT platform

The screenshot shows the IBM Cloud Resource list page. The browser address bar displays 'cloud.ibm.com/resources'. The page header includes the IBM Cloud logo, a search bar, and navigation links for Catalog, Manage, and RAMESH M's Account. A user profile dropdown menu is open on the right, showing options like Profile, Log in to CLI and API, Privacy, Change theme, and Log out. The main content area is titled 'Resource list' and contains a table with columns: Name, Group, Location, Product, and Status. The table lists various resource categories such as Analytics, Blockchain, Databases, Developer tools, Logging and monitoring, Migration, Integration, and Internet of Things. The 'Internet of Things' category is expanded, showing a single resource: 'Internet of Things Platform-mq' with a status of 'Active'.

Name	Group	Location	Product	Status
Analytics (0)				
Blockchain (0)				
Databases (2)				
Developer tools (6)				
Logging and monitoring (0)				
Migration (0)				
Integration (0)				
Internet of Things (1)				
Internet of Things Platform-mq	Default	London	Internet of Things Platform	Active
Security (0)				
Mobile (0)				
Other (0)				

USN-3

As a user, I can create a device in the IOT IBM Watson platform for simulation

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes the platform name and user information (913019106009@smartinternz.com, ID: bb0w3d). The left sidebar contains various icons for navigation. The main content area has tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar labeled 'Search by Device ID' is present, along with a 'Device Simulator' toggle and a filter icon. A table lists devices with columns: Device ID, Status, Device Type, Class ID, and Date Added. The third device, with ID 12345678, is highlighted. Below the table, a detailed view for this device is shown, including tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Identity' tab is active, displaying the following information:

Field	Value
Device ID	12345678
Device Type	River_IOT
Date Added	17 Nov 2022 19:54
Added By	913019106009@smartinternz.com
Connection Status	Disconnected

USN-4

As a user, I can simulate the device created

IBM-Project-30582-16

Inbox (11) - rameshkv

Service Details - IBM

IBM Watson IoT Platf

Product overview of N

New Tab

bb0w3d.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

?

913019106009@smartinternz.com

ID: bb0w3d

Browse

Action

Device Types

Interfaces

Add Device

>		1234	Disconnected	ESP32	Device	18 Nov 2022 11:40	
>		1234	Connected	Sensor_River_UP	Device	14 Nov 2022 20:05	→ ...
<div> <div>Identity</div> <div>Device Information</div> <div>Recent Events</div> <div>State</div> <div>Logs</div> <div>X</div> </div> <div> <div>Device ID</div> <div>1234</div> </div> <div> <div>Device Type</div> <div>Sensor_River_UP</div> </div> <div> <div>Date Added</div> <div>14 Nov 2022 20:05</div> </div> <div> <div>Added By</div> <div>913019106009@smartinternz.com</div> </div> <div> <div>Connection Status</div> <div>Connected</div> <div>Connection Time: 18 Nov 2022 15:37</div> <div>Client Address: 106.195.43.114 SecureToken</div> </div>							

| > | | 12345678 | Disconnected | River_IOT | Device | 17 Nov 2022 19:54 | |

Items per page 50

1-3 of 3 items

1 of 1 page

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As a user, I can get the values of temperature, PH and Turbidity, I can create a line chart with my output data

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar labeled 'Search by Device ID' is present. The main content area shows a list of devices. One device, ID 1234, is selected and expanded, showing its 'Recent Events' tab. The events table lists two status updates with JSON payloads containing Turbidity, PHvalue, and temperature data.

Device ID	Status	Device Type	Class ID	Date Added
1234	Disconnected	ESP32	Device	18 Nov 2022 11:40
1234	Connected	Sensor_River_UP	Device	14 Nov 2022 20:05

Event	Value	Format	Last Received
status	{"Turbidity":90,"PHvalue":2,"temperature":75}	json	a few seconds ago
status	{"Turbidity":10,"PHvalue":12,"temperature":12}	json	a few seconds ago