Project Planning Phase
Project Planning (Milestones & Activity List)

Date	22 October 2022
Team ID	PNT2022TMID46174
Project Name	Project -Real time river water quality monitoring and control system
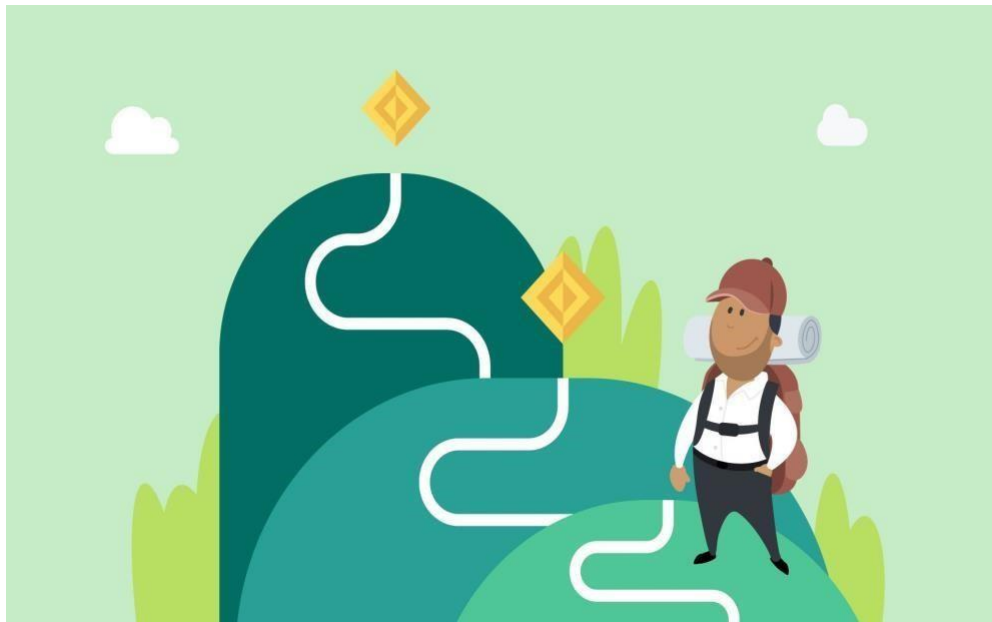
MILESTONES OF A PROJECT

- PREREQUISITIES
- PROJECT DESIGN PHASE
- PROJECT PLANNING PHASE
- PROJECT DEVELOPMENT PHASE
- FINAL DELIVERABLES

FINISHED TASKS (Milestones & Activities)

MILESTONES	ACTIVITIES	DESCRIPTION	STATUS
Prerequisities	IBM cloud service, software	To understand a cloud services & software	✓
Project objectives	Create IBM cloud service.	To create a IBM Watson IOT platform. To create a Node red service.	✓
Ideation phase	Literature survey	Literature survey on the selected project.	✓
	Empathy map	Prepare empathy map to capture the user pain and gain, prepare the list of problem statement.	✓
	Ideation	Organizing the brainstorming session and prioritise the top three idea based on feasibility and importance.	✓
Project design phase-1	Proposed solution	To prepare proposed solution document which include novelty, feasibility of ideas, scalability od solutions.	✓
	Problem solution fit	To prepare a problem solution fit and solve the customers problem.	✓
	Solution architecture	To create a solution architecture diagram for the given project.	✓
Project design phase-2	Customer journey	To prepare customer journey map to understand the user interaction and experience.	✓

	Functional requirements	Prepare functional and non-functional requirements document.	✅
	Data flow diagram	To prepare a data flow diagram and user stories that provide a visual representation of the information.	✅
	Technology architecture	To create a technical architecture diagram that contains components and technologies & application characteristics.	✅
Project planning phase	Milestone & activity list	Prepare a milestone & activity list of the project.	✅
	Sprint delivery plan	Prepare a sprint delivery plan.	✅

REMAINING TASKS (Milestones & Activities) to be completed

MILESTONE	ACTIVITY	DESCRIPTION	STATUS
Project development phase	Delivery of sprint-1,2,3,4	To develop & submit the developed code	❌
Develop python script	Python code	For sensing the values -> Temperature -> PH ->Turbidity	❌
	Publish data to the IBM cloud	It sends random data to the IBM cloud	❌
Develop a web application	Web application using Node Red	To get a data from the device	❌
	Creating UI (Web app)	UI node installation	❌
	Create an HTTP request to communicate with mobile app	-> Turbidity ->PH ->Temperature	❌
Building a mobile app	Design UI to display the values	-> Turbidity ->PH ->Temperature	❌

	Configure the application to receive the data from cloud.	To configure the application to receive the data from cloud.	
	Configure the mobile app for controlling motor using buttons.	To configure the mobile app to monitor & control the water flow.	