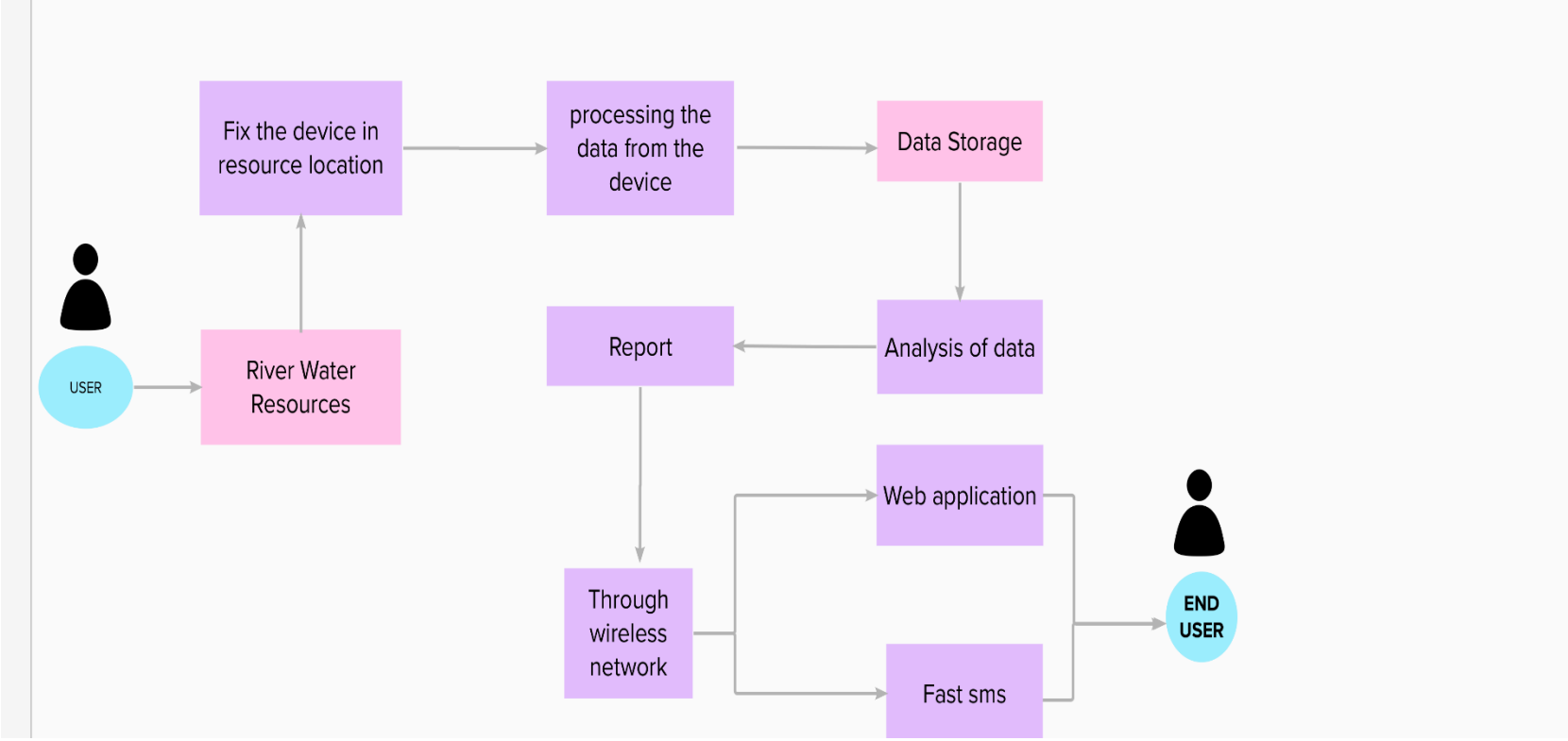
Project Design Phase-II Data Flow Diagram & User Stories

Date	17 October 2022
Team ID	PNT2022TMID08065
Project Name	Efficient water quality analysis & Prediction using Machine learning.
Maximum Marks	4 Marks

Data Flow Diagrams:



User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Environment)	To know the water pollution or algal bloom	USN-1	The device want to maintain clean river water for good environment	Various sensors used to monitor and collect the data.	High	Sprint-1
Customer (River side people)	They want to drink fresh river water and catching healthy fish	USN-2	To maintain the river water always to be clean	The sensor value of the river water condition is always known.	High	Sprint-1
Customer (Farmers)	They need pure water for farming	USN-3	A farmer who raises crops for planting and yielding.	The Soil moisture in the root is a good criterion for scheduling irrigation.	High	Sprint-1
Customer (Manufacturer)	The Manufacturer always wants the non-chemical river water.	USN-4	12% of water is needed for manufacturing business like paint and coating.	They will analyse the solutions for the problems.	High	Sprint-1
Customer (Government agencies)	The agent wants to be the river water to always clean.	USN-5	Government forms NSS camps in each school and college for monthly once to clean the river water.	By comparing previous condition of water, there are more changes in the river water	Medium	Sprint-2
Customer (Web user)	They want the update on river water condition	USN-6	As a user, I can register for the application by entering my email, password, and confirming my password. To get details about river water.	Any browser is able to access the website from anywhere to know anything about river water.	High	Sprint-1