

Sri Lanka Institute of Information Technology

KidniFy - A Mobile based Chronic Kidney Disease Patient Care System
Using ML and IoT

2023-032

STATUS DOCUMENT - I

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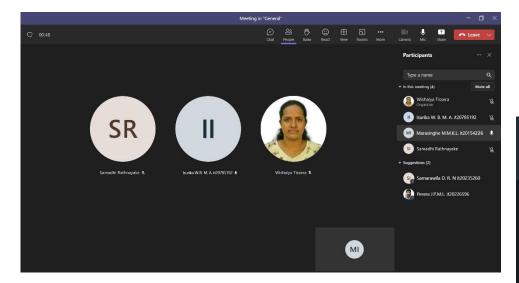
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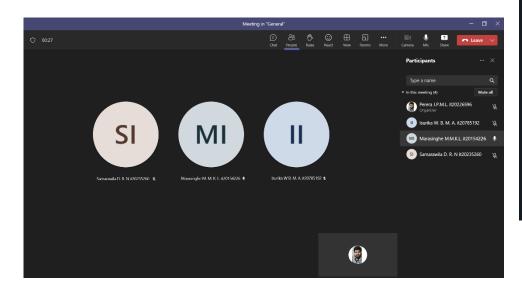
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1 Teams Meeting

1.1 Screenshots of Meetings & Calls







1.2 Meeting with the domain expert

Meeting with Consultant Nephrologist Dr. Pramil Rajakrishnan
At Kurunegala Teaching Hospital - Kidney dialysis Unit | 2023.04.29





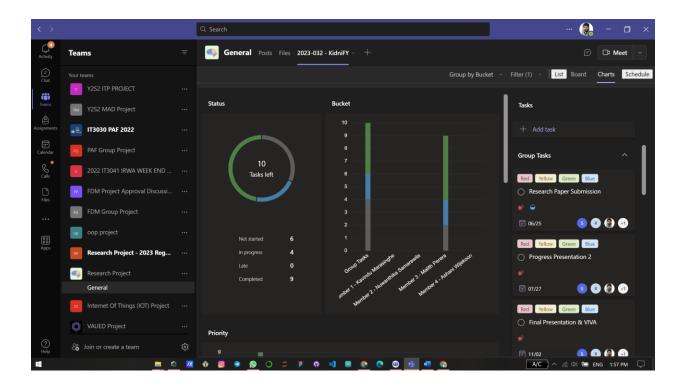
Meet the Ward Master of Kidney Dialysis Unit At Anuradhapura Teaching Hospital | 2023.05.01





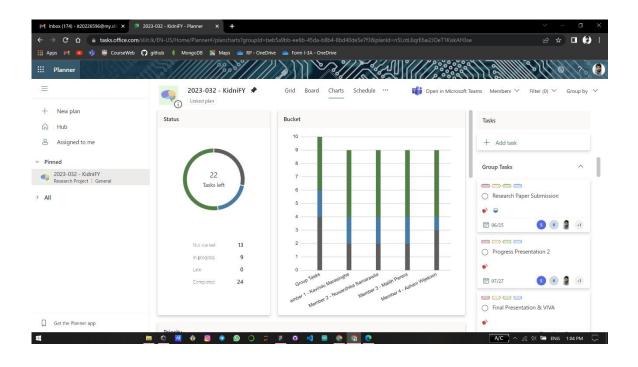
2 Screenshots of the Tasks by Planner

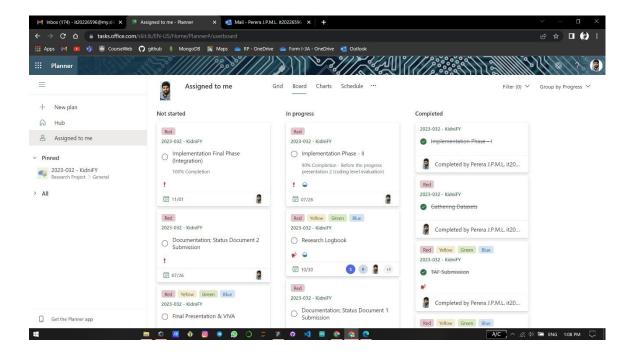
2.1 Chart Overview

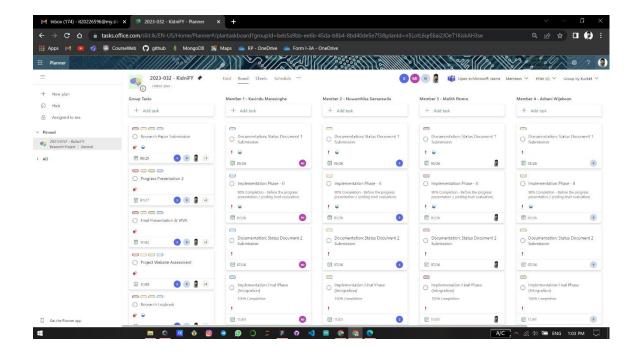


- To Do
- In Progress
- Completed

2.2 Bucket List

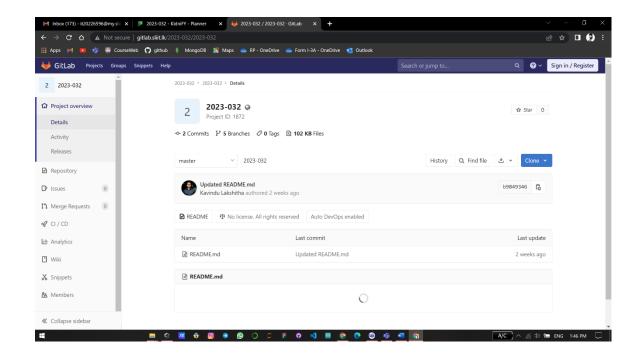




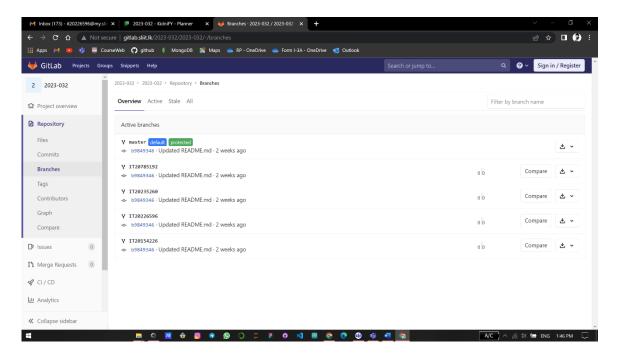


2.3 Screenshots of GitLab

Repository in GitLab



Create GitLab Branches & Starting Implementations

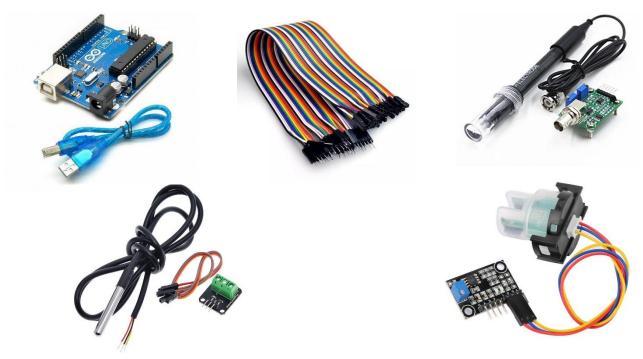


3 Project Implementation

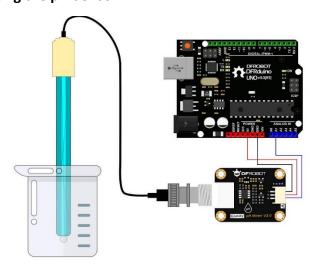
Water Quality Monitoring System for Kidney Patients based on IoT and Machine Learning

Gathering IoT Components

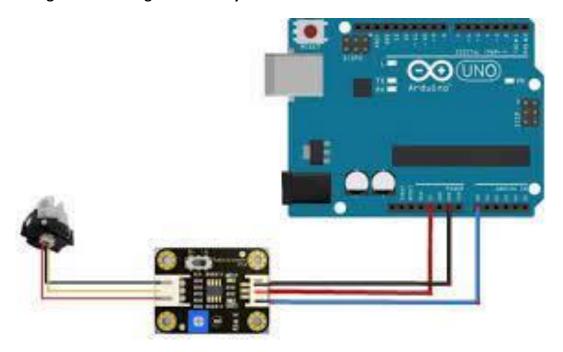
(Arduino Uno Board, Jump wires, pH Sensor, Turbidity Sensor & Temperature Sensor)



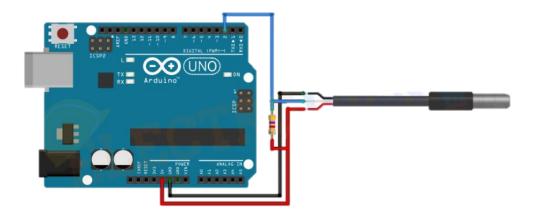
Circuit Diagram for testing the pH Sensor.



Circuit Diagram for testing the Turbidity Sensor.



Circuit Diagram for testing the Temperature Sensor.



Code for testing the pH sensor.

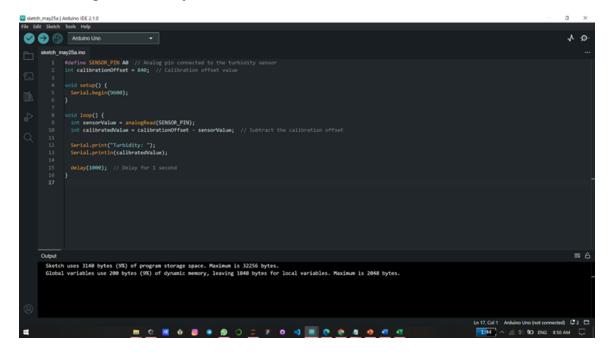
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Code for testing the Temperature sensor.

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# Meta Stach book Help

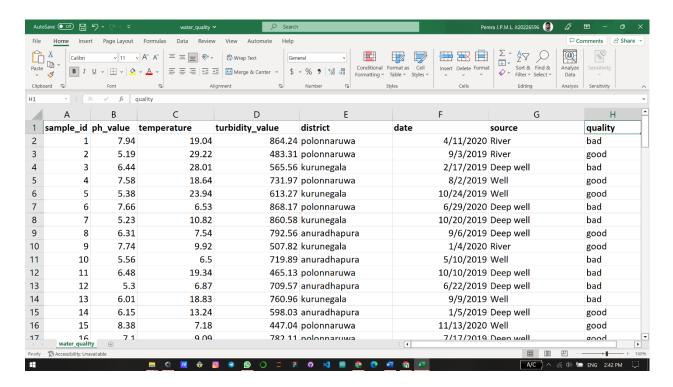
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Code for testing the Turbidity sensor.

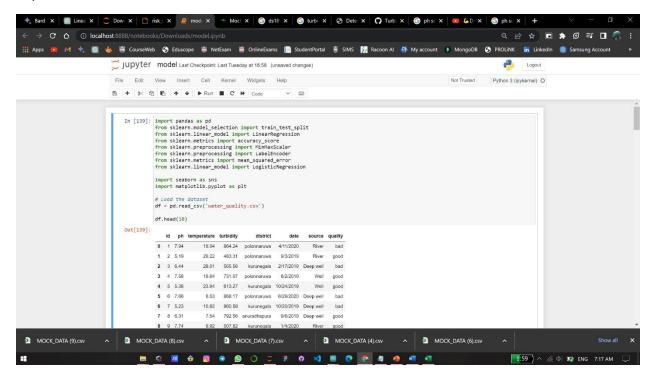


Software solution

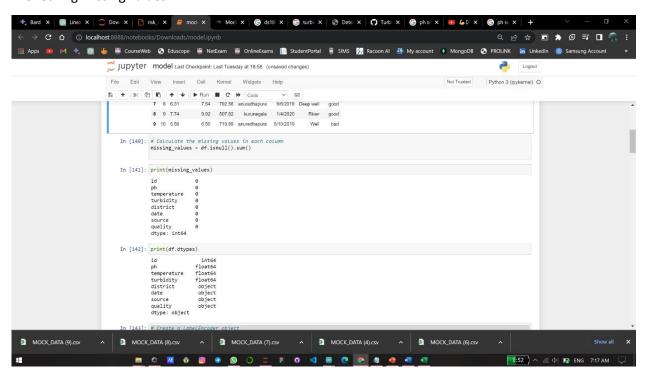
Gathered Date Set



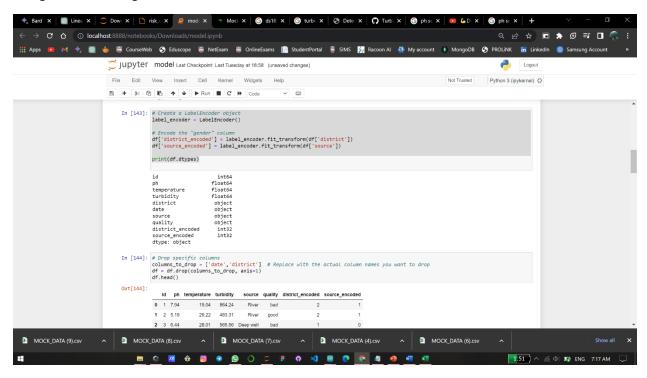
Import Libraries & load the dataset.



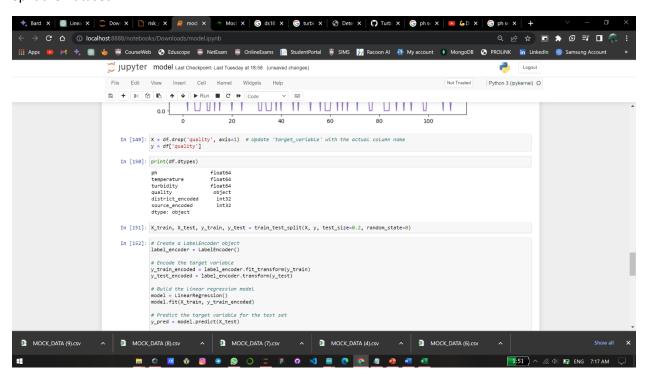
Checking missing values



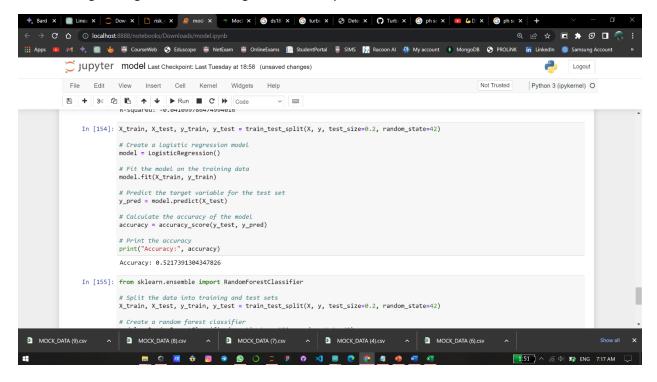
Using Label Encoding



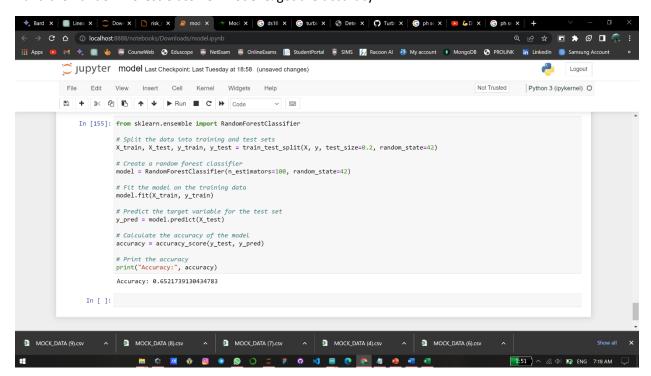
Split the Dataset.



Build the Logistic regression Model & get the accuracy.



Build the Random Forest Classifier Model & get the accuracy.



4 Gantt Chart



- Completed

- In Progress

5 Work Breakdown Structure

