**Validation Report**

**Report Period:** March 23, 2024 – March 25,2024

**Project Title:** Jal Sanket (A Smart Application to Crowdsource Water Issues)

**Guide:** Dr. D. J. Chaudhari

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**Executive Summary:** The Jal Sanket app aims to crowdsource water-related problems such as floods, leaks, breaks, and contamination of water, from around a community, open-source data, etc, and displays all these sources on the map.

**Current Phase Progress:**

|  |  |
| --- | --- |
| Task Description | Validation phase |
| Scheduled Completion | March 25,2024 |
| Actual Completion | March 25,2024 |
| Status | Completed |
| Remarks |  |

**Accomplishments:**

* Successful development and deployment of the web-based application, enabling users to report water isssues conveniently using live location tracking.
* Integration of user feedback mechanisms to ensure continuous improvement and user satisfaction.
* Validation of the system’s effectiveness in reducing water waste, improving public health, and safeguarding the environment through timely issue resolution and proactive management.

**Challenges & Mitigation:**

* To ensure the quality and reliability of crowdsourced data implement data validation mechanisms like user verification, cross-referencing with official records, etc.
* To maintain privacy and security of data use security protocols and update data regularly.
* To handle large volume of user-generated data use scalable databases, implement caching and load balancing techniques to distribute incoming data efficiently.

**Planned Activities for Next Week:**

* Launch the web-based application for users to report water issues using live location tracking.
* Conduct thorough testing to ensure functionality, security and usability of the system across various devices and browsers.
* Publicize the availability of the application to crowdsource water-related issues and provide ongoing support to ensure smooth operation.

**Financial Summary:**

|  |  |
| --- | --- |
| Description | No financial expenditure required |
| Budgeted Amount | Rs. 0 |
| Amount Spent This Week | Rs. 0 |
| Total Expenditure | Rs. 0 |

**Risk Assessment:**

In the validation phase of the project, risks include potential data privacy breaches due to the collection of sensitive information, reliability issues in crowd-reported data accuracy, and the need for robust algorithms to effectively prioritize and address critical issues in case of emergency situations.

**Conclusions and Recommendations:**

In conclusion, the proposed web-based app holds significant potential for addressing water-related issues by crowdsourced data and its analysis. It includes conducting thorough user research, refining algorithms for accurate problem prioritization, and ensuring seamless integration with existing administrative systems.

**Approval:**

Dr. D. J. Chaudhari

Project Guide

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