

Department of Computer Science and Engineering KLE Technological University, Belgavi Campus

TEAM NO: MP1A-19

DIV: A

AquaUnity: Collaborative Efforts for Clean Water and Sanitation Solutions

Deepa Hakare (02FE21BCS023), Kaveri Hanabar (02FE21BCS038), Sneha Biradar (02FE21BCS089) Under the guidance of Prof.U.V.Somanatti

Abstract

Access to clean water and sanitation remains a critical global challenge, disproportionately affecting vulnerable communities. To address this issue effectively, we propose the development of an integrated online platform. This platform aims to connect volunteers, streamline donation processes, and facilitate the implementation of sustainable projects. By leveraging digital connectivity, our solution seeks to enhance coordination and efficiency in addressing water and sanitation needs worldwide. Through collaborative efforts and technological innovation, we aim to empower communities and ensure sustainable access to essential resources.

Problem Statement

The lack of access to clean water and sanitation continues to be a pressing global issue, particularly impacting vulnerable communities. Our proposed solution is to develop a unified online platform that connects volunteers, facilitates donations, and implements sustainable projects.

Objectives:

- The platform will aggregate data on polluted lakes, rivers, and other water bodies, enabling users to pinpoint areas in urgent need of cleanup.
- The platform should be able to display the volunteers who is near to the location of the polluted water resource.

Stakeholders

City Corporation



Figura 1: Stakeholder

SDG Mappings and PI

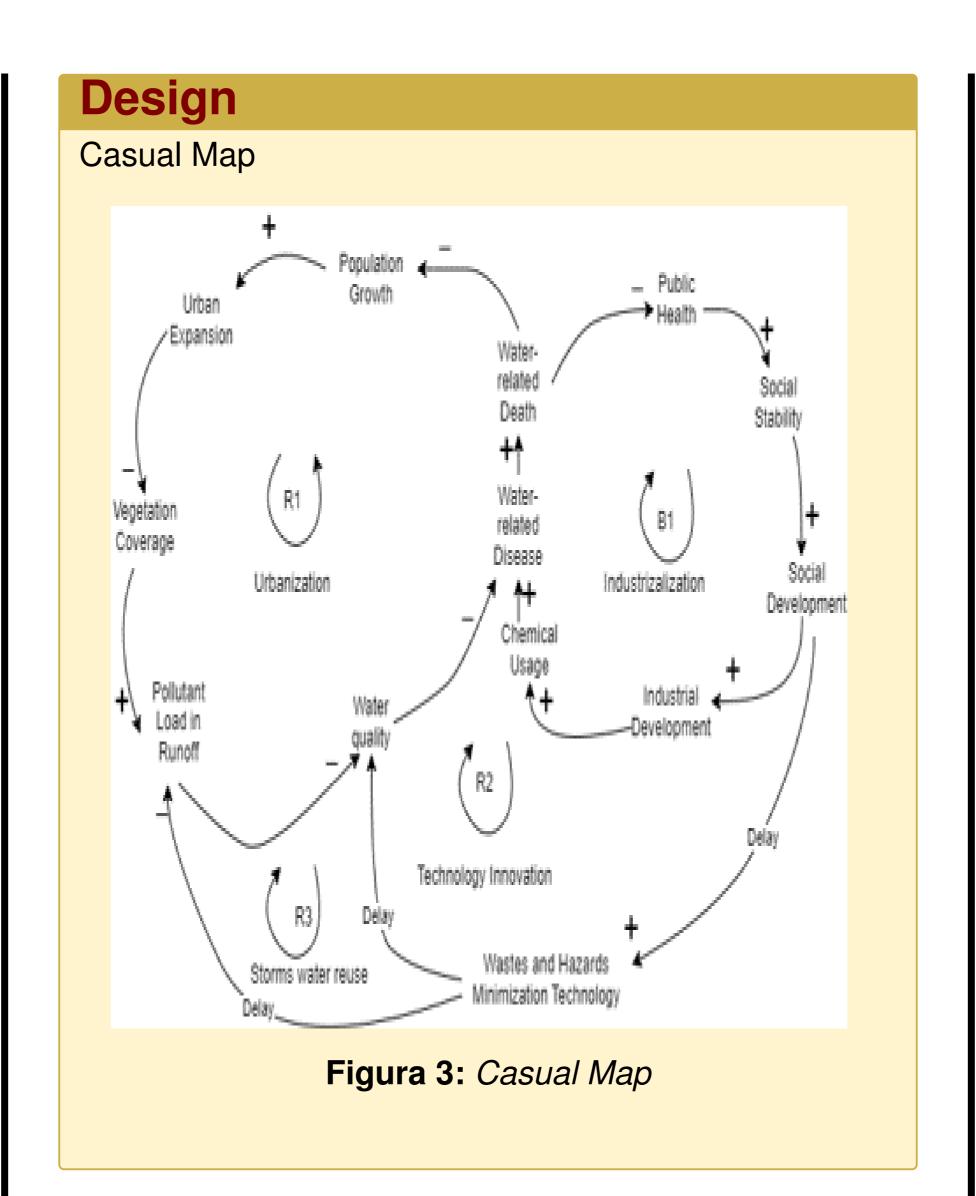
Sustainable Goal 6: Ensure access to water and sanitation for all. Access to safe water, sanitation and hygiene is the most basic human need for health and wellbeing.



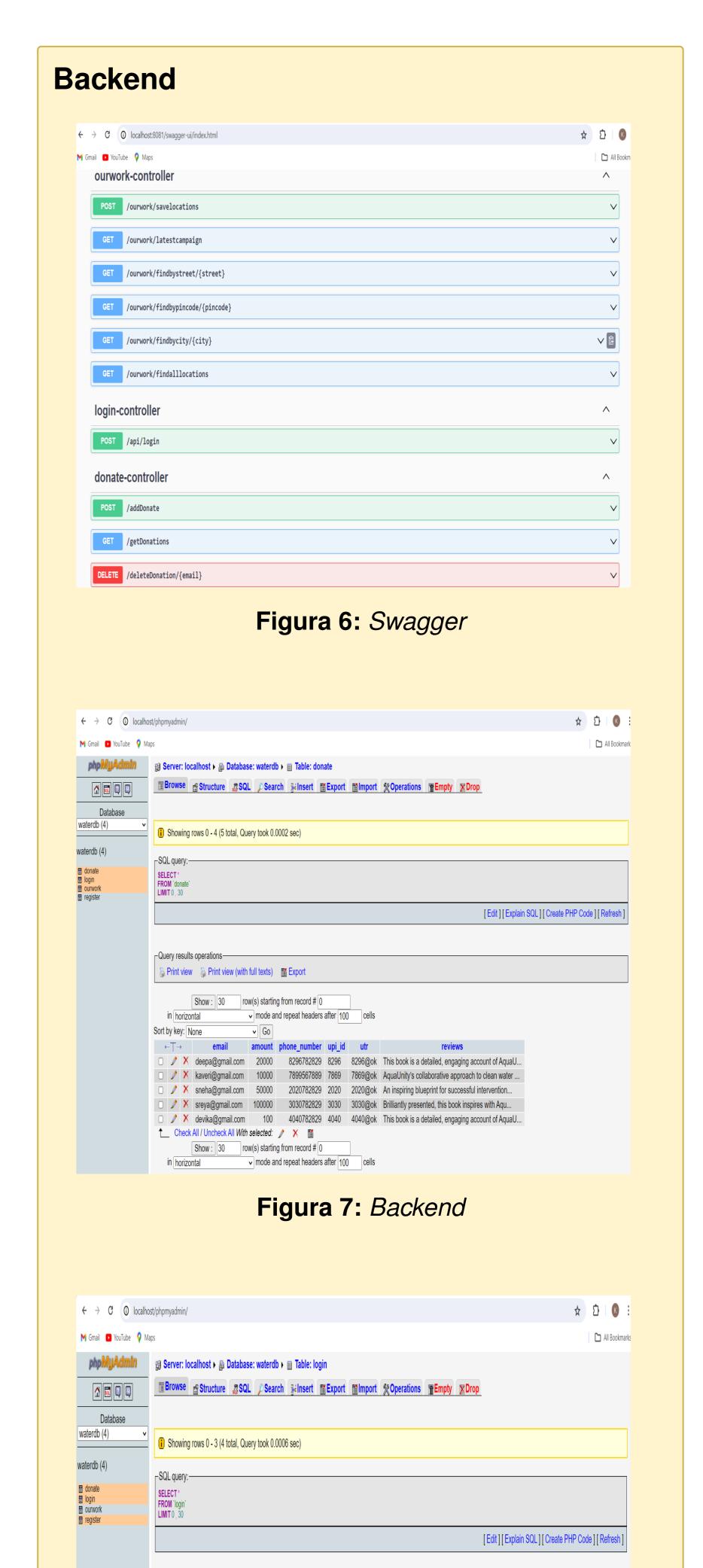
Figura 2: SDG Goal-6:Clean water and sanitation

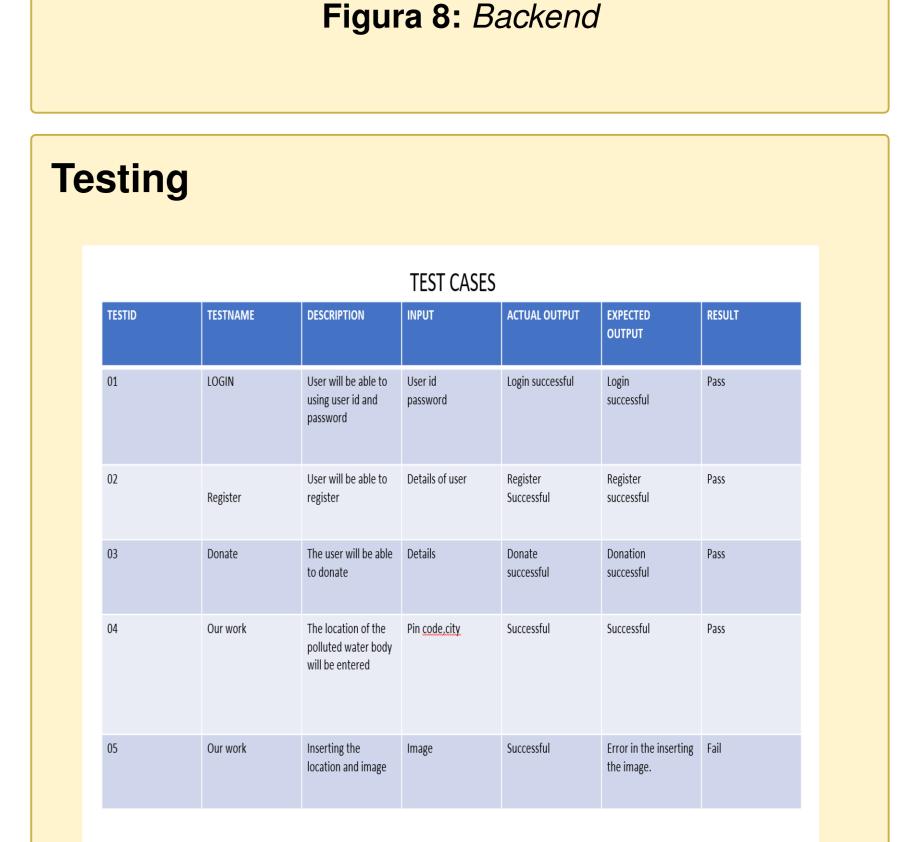
Target: 6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally

Performance Indicator(PI): 6.3.2 Proportion of bodies of water with good ambient water quality



Implementation & Testing Frontend ← → C ① localhost:3000 M Gmail D YouTube V Maps **AquaUnity: Collaborative Efforts for Clean Water and** Sanitation Solutions ASSURE EVERYONE'S Sanitation and clean water are essential for sustainable development and public health. They promote hygiene, shield against watery illnesses, and enhance general health. Problems including water scarcity, pollution, and unequal access nevertheless exist despite their significance, especially in vulnerable groups. Disease prevention requires effective sanitation measures, such as appropriate waste disposal and clean facilities. In order to solve these issues and guarantee that everyone SUSTAINABLE MANAGEMENT OF WATER has access to clean water and sanitary facilities, coordinated actions are required to improve global health and prosperity. AND SANITATION. **Exploring Clean Water and Sanitation: Informative Videos for Insight** Figura 4: Home Page © 다 ☆ ① | B ← → C O localhost:3000/Register M Gmail D YouTube 💡 Maps Home About Our Work Our Projects Contact Login Register now! Figura 5: Registration Page





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Figura 9: Test cases able