**Topic Team Collaboration System for Mobility Water Monitoring**

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**Abstract**

Nowadays, whenever where the collectors need to measure the quality of water source, they have to go outside to collect some water sampling of the target area. The problem is even though present we have a water quality meter but the test result water monitoring cannot send to the lab immediately. In the other hand, carrying the water sampling from field to the laboratory spends too many times. The element of the water can change can change before you arrive to the laboratory if the survey area is far. The reason leads to develop the application to analyze and evaluate the water quality.

Team collaboration system for mobility water monitoring application is developed for the chemical analysis of the water quality to work as a team. The benefit of this system is to help the users can interact with each other in the team and can review all the test results from every collectors within the involved project. The system is consisting of two parts, Mobile application (Android v4.4.2) and Web application (PHPv.5)

The first part is mobile application for collectors and team leaders. Collectors are staff whom team leader assigns water site on Google Map. Each collectors can follow the marked location on the Google Map to collect water sampling in order to measure chemical signal such as pH, Nitrate and etc. Then the measured result is sent to the web service to store in the database and also log collected raw data to Google Sheet for later verification of water result. While team leader can use mobile application as a mobility option to review test results of each survey area assigned to his collectors.

Another part is a web application for the administrator in a role of system owner to manage authority of users and assign projects to team leaders and also for team leaders to manage their projects consisting of assigning and monitoring collecting progress of team members.