IIE-CIS MOBILE APP COMPETITION

Cloud-Based TimeStudy Application

Larger industrial companies focus an ever increasing amount of resources nowadays on improving the efficiency of their systems. Existing processes are disected and data collected in a meticulous fashion by Industrial Engineers before developing possible solutions for the future. However, a lot of the collected data is left isolated in project folders or physical data collection sheets. The result is that when teams are tasked with updating or improving another area of a process, they are unaware of existing resources provided by previous projects which could help them with developing a solution.

Time Studies are a widely used and respected, although sometimes controversial method of gathering quantitative data on different processes throughout industrial companies. They allow someone to disect a process into procedures and gather information on the time it takes to accomplish these tasks.

This project has as a goal to develop the prototype for an application that companies can use to catalog and compare timestudies on a large scale. The application will allow users to create accounts, design a study, allocate procedures for said study, and then time them from a mobile device. Additionally, users will be able to see if instances of the existing study already exist, when and where they happened, who controlled them, and the results of said study.

This application will provide analysts and engineers a standard template to conduct time studies that are accesible from any mobile device. Additionally it will allow cross-referencing results of studies with those done previously. This feature can prove extremely valuable in a situation where a company has multiple factories that produce similar products as the comparison of experimental processes can be easily examined with the click of a few buttons.

The application will be developed as a hybrid mobile application for the moment and backed using a cloud-based service such as the Google App Engine or Microsoft Azure.

Product Name:

* StudyT

Team:

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Market Segment:

* Production based companies or groups
* Possibly the public as well through a global version of the product