

CS Masters' Thesis Defense

Title: *A New Software Project Management Tool*
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Abstract:

Software project management requires the project manager (here after, PM) to be able to manage project scope and resources within a certain time (schedule) and budget (cost constraints). A software project requires interaction between multiple users within the software organization and this is possible through the use of different project management tools. Apart from the leadership qualities of the PM, a project management tool also contributes heavily to the success of the project.

The lack of a common user interface in the existing web based project management tools leads to issues like time overhead, lack of instant resource allocation and lack of cross compatibility on multiple browsers. A survey was undertaken to account for the multiple user and common user interface software project management tools in the market. The need for a new project management tool stems from the observation that the existing common user interface project management tools are expensive and have limited features. Therefore it is hypothesized that the ability to create a new project management tool with a common user interface should contribute substantially to instant resource allocation by providing an efficient search capability mechanism to the PM.

For this project, a new project management tool was designed, tested and evaluated for four scenarios (defect capture, defect management, project status management and security). It is concluded that the new project management tool is an efficient, low cost tool that is compatible over a wide range of browsers.