**Web Based LMS System (CDF)**

**Executive Summary**

**Members:**

***Salman Ahmed Khan (19K-1043)***

***Sadeem Sattar (19K-1102)***

***Abdullah Tilal Khan (19K-1103)***

**To:**

***Miss Atifa Batool***

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**Problem Statement**

In the current available system, it provides manual update of records which is a tedious and time consumption job for professors, manual editing and maintenance of HTML web pages and the other components of the system, poor throughput, response time and different system layout for the web pages, newsgroups and email for users. Therefore, there is a need of such an automated system that is integrated, standardize and simplified for the end users.

**Proposed Solution**

The problems cater in the system is identified by the use of **PIECES** framework which results in the development of simplifying, standardize and integrate the system.

The current system is time consuming that require professors to maintain web pages with knowledge of HTML. This will be solved by creating the webpages dynamic and automated so that professors will not require to manual update the web pages. Also, familiarity will be introduced in the system with simple and intuitive interface that will reduce the learning curve as well as being user friendly.

The system will standardize for all the users by providing with the same web layout which will increase the learnability of the users. Moreover, the system will prevent the crashing of the web pages, newsgroups and email, thus securing professors valuable time and quick maintainability.

The system will provide easy integration of the new system with the existing one. New technology and hardware will be integrated due to the introduction of scalability in the system. This will ensure that the new developed system will act as a plug and play with the existing system.

The new system will provide login feature for the professors to secure and use their personal system. Any changes done will be dynamically updated in the backend database of the system. The users will have the feature to update any information and the changes will be reflected in the system. It will also provide features like Online forums, chat/video conferencing, test and assignment scheduling and submissions. All the web pages will be created dynamically and will be standardize for ease of use.

**Costs**

The development duration of the project is 320 hours which require cost of $10,600 and Operational Cost require will be $226,900 with the total of $237,500 for the system.

**Conclusion**

It is evident that the current system is not efficient and effective to be used by professors and students as it is time consuming, manual, difficult to use and no integration. With our proposed new system, the goals of simplifying, standardizing and integrating the exiting system could be accomplished with the total feasible amount of $237,500. It provides an interactive interface, dynamic web pages update and easy to use.