



ACTIVITY MANAGEMENT AND MONITORING SYSTEM FOR THE PRODUCT CERTIFICATION SCHEME

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Abstract

The awareness about the gap between usage of information technology and day to day working practices of office is increasing. Activity management and monitoring system for product certification scheme introduced to Sri Lanka Standards Institution is one example for that.

Product certification activities are currently handled using traditional manual system. Activity management and monitoring system are designed to manage and monitor applicant details, 'SLS' mark holders' detail, audit details and fee recovery process. In this system fee recovery details, audit details and 'SLS' mark holders' details are updated by project officers. They are in deferent divisions. Web base system is selected for this project, so that, easy and remote access can be done. PHP, HTML, Java Script and MySQL are used to develop this system.

First, feasibility study was carried out and identified the functional requirement and the non functional requirements for the existing system. At this stage, persons were interviewed, documents were reviewed and processes were studied in details manner. Use case diagrams and activity diagrams were drawn for existing system and problems and weaknesses were identified. Then, functional and non functional were decided and organized so that customer requirements are satisfied for the proposed system. The aim and objective of this project were set so that problems and weaknesses eliminated.

After coming to agreement with client, use case diagrams and activity diagrams were drawn and use case descriptions were listed in black and white. With the help of use case diagram and activity diagram, sequence diagrams were drawn and class diagram is drawn taking input as sequence diagrams. Having knowledge of above all, entity relationship diagram and relational tables which were normalized in third normal form were decided as the basement of data base tables. After that, user interface were



design taking into consideration of activity diagrams, use case diagrams and tables decided for data base. World accepted colour wheel concept was used for colour matching for user interface.

As the first step of implementation, database was built using My-SQL. After that, coding of the software project was done using PHP, Java script and HTML. Graphical user interface (GUI) was decided based on interface classes and GUI was designed using Dream Viewer. Software evaluation and validation were done to ensure whether software product was according to the software-requirement specifications.

Software product testing and validation were done to minimize the design errors, mistakes and slips. As a summary of this project thesis, brief description of whole chapters from introduction to evaluation and testing were described in the final chapters.

Users' feed backs and customer satisfaction were good proof to say that Aim and objectives of the Activity Management and Monitoring System are achieved successfully.