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## RESEARCH ARTICLE

### SMART E-PREPARATION FOR TEACHERS OF MOUSSA BEN ALI FOR BASIC EDUCATION IN SULTANATE OF OMAN

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#### Abstract

This article is designed to help teachers in particular and supervisors in general at Moses Ben Ali basic Education School to revitalize the educational process electronically. This process is a simulation process to prepare lesson plan, instead of doing the traditional paper lessons. It aims' to do lessons preparing in an electronic technician way, where we designed a computer software program in electronic process preparation.

It contains a mail preparation intelligent lessons, a user interface program with special powers to school administration. The user can return to the global network whenever the user wants, from the Internet and access any useful information from it directly to the teacher and student. In addition, there are many buttons in this program that leads to many functions such as printing, deleting and so on, and there are other advantages that the program provides for many efforts, because it contains a database that is easy to referring to extract any recorded information in any year the user.

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## I. Introduction

The technology is needed to ensure success from those service systems which is an integral part of system architecture. A lot of teachers try to take advantages of technology as there is a wide variety of potential for teaching and learning, to improve performance.

Through this principle, this research helps the educational process in schools to encourage teachers, which is positively reflected directly on students.

This article also coincides up with the great work being done by the Ministry of Education in Sultanate of Oman by the important Educational Portal which received awards by the state and from other International Educational Forums, because it contains many windows for the teacher and to the parents. So this research can save time, effort and many lessons preparatory papers. It serves as a useful paradigm to shift from the traditional to technical world. It aims to create an application program that depends on many languages in order to create an appropriate work environment in modern eras by web pages and the Internet. This program supports many features needed by teachers at school or lecturers at college or university that contains reliance by the same teacher and the adoption direct official or supervisor to this project, whether it will be in the same place or from one office to another office if it's connected with the World Wide Web together. A database is created containing information about all lessons, phrases, and this information will be stored in the data base, making it easier for reference to all users.

## II. Literature review

Project Study, there are various studies that will form the system development that will be selected from various researches papers in order to carry out a study on setting up an electronic smart preparation to schools by the Ministry of education, through researches from previous and present studies. The Kingdom of Saudi Arabia, Sultanate of Oman done a variety of specific programs, and the Arab Republic of Egypt has been emphasized on the electronic preparation application to classes by teachers for thoughts dissemination in the educational process.

The teacher can insert tables, graphics, procedures and objectives of all lessons, duties, delivery date, and then print or save it to a PDF file, to form a clear picture after the final lessons preparation of file attachments. The videos attachments that shows preparation method samples they also can show work on the electronic form at any level, whether for teachers or any administrative work area.

Andrea and Bartletta (2012): the multimedia based presentation software is used to recreate instructional units to the elementary students. The multimedia based presentation helps for new ways to organize and present ideas to the elementary students.

Dr. Bruce Miller (2001): the Ministry of Education in Egypt Adviser has agreed to implement and apply electronic materials preparation in English.

Neal Strudler & Keith Wetzelb (2005): two parts on the diffusion of electronic portfolios in teacher education. The first part deals with the issues of adoption and implementation of the education system. The second part deals with streamlining requirements, addressing reliability of technology and access, and planning for data aggregation and program evaluation.

Niess (2005): for the purpose of integrating technology, the Pedagogical Content Knowledge (PCK) development was investigated. There are four components were considered for enhancing the PCK to TPCK. In TPCK, the study examined in a multi-dimensional science and mathematics teacher preparation program.

Neal Strudler and Keith Wetzel (2008): to preservice teacher education, the study has been investigated the benefits and costs of using electronic portfolios (EPs). The maturity of the students are to be examined by the voice of students in six programs thought by the teacher. The EPs are gives good opportunities to reflect, better access to and organization of professional documents, increased technology skills, and better understanding of teaching standards.

Min Hu and et al (2012): to improve the quality of education and speed of lesson plan preparation for school teachers in middle and primary school, the specialized tool has designed and implemented in electronically in an efficient way for time-consuming lesson plan preparation instead of manual work.

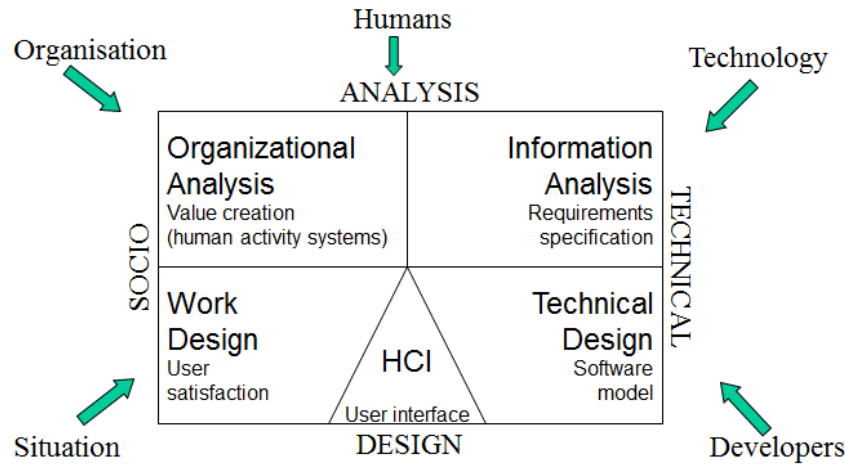
Kuei-Ping Shih and et al (2010): the Self-Regulated Learning (SRL) system is the platform for develop independent learning skills among students. Both instructors and learners have use the SRL system for self-regulated learning and support theories. On the part of the instructors, the content accessibility subsystem is provided for each access and organize learning materials and also provide dynamically change of support to different level of their learners.

Marilyn McKinney (1998): the investigation has been made for evaluation of electronic portfolios to elementary teachers for examining how they construct the thought about electronic self-assessment portfolios. The data are received from interviews and surveys for creating portfolios

## III. Proposed work and implementation

Web Information System Development Methodology (WISDM) which is the short form of the web information system development methodology is actually considered as the framework which will be used to provide the web development with a clear support and management for constructing the situation specific methodology. This methodology uses the multi framework that will help to develop a web development in the internet technology as shown in Figure 1.1.

## WISDM as emerging methodology from the Multiview framework



**Figure 1.1 WISDM Framework**

Here the web development is having a different component which is different from the normal systems. The WISDM will consider the different components that will be considered in the web application development which should be considered as the part of the web applications which are like [8].

- Organization
- Humans
- Situation
- Technology
- Developer
- Design

WISDM is having different steps that are followed in the web development and this is considered to be the phases that will bring the system development in to a completed stage.

- Organization Analysis
- Information Analysis
- Technical Design
- Work Design

The proposed model is that this application is different from other design applications because the Internet browser is used to design through a computer interface program which the teacher can be able to engage in the program and take browser advantage. Upon construction completion the new features that will be available for reference to administrators and teachers are their own files, their storage in the administrative side search, responsible for any information relating to teachers and the keeping the teacher's electronically prepared lessons within the computer program base. The working principles of proposed system as shown in Figure 1.2.

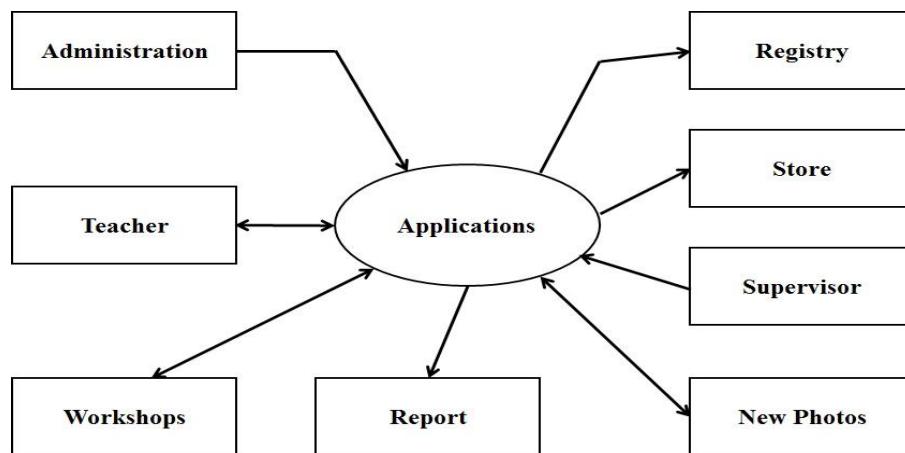


Figure 1.2. Proposed system

The user registration can be done with help of username and password as shown in Figure 1.3.



Figure 1.3. The user registration

The lesson plan preparation contains all fields required to prepare for intelligent electronic material for any subject provided that it must be stored inside the database with all its fields as shown in Figure 1.4

**Figure 1.4. Teacher’s Lesson Plan Preparation**

The teacher’s remarks can be viewed and searched easily by the administration as shown in Figure 1.5

**Figure 1.5. Teacher’s Remarks**

In Figure 1.6, a private administrator page, with lower validity from the Director page. The supervisor only puts his notes observations and his ratification to the electronic lessons preparation.

**Figure 1.6. Rectification of electronic lesson plan**

#### IV. Conclusion and Future Enhancement

This work is to be in teacher's service hand, to improve education, to use the web page in case Educational Portal application, which is in itself a working language programming which will consider the various internal activities in the Directorate-General for Education. Also in the case of Internet service mode it will make the school administration or the district administration to provide a collaborative environment to participate work and other educational activities for education projects.

Upon application completion, the system can be strengthened using SMS service and Online programs by exchange of Information and ideas and electronic smart preparations exchange between teachers in case of computer programs software to be linked online to global network.

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