**KP Textbook Board (Online Book System)**

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This **research proposal** is submitted to the Department of Computer Science,

Abasyn University, Peshawar as on

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**PROJECT PROPOSAL SUBMISSION FORM**

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| 1. Project Title: | KP Textbook Board (Online Book System) |
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| 8. Date of Submission: | 11-10-2019 |
| 9. Major Area of Study: | BS (Software Engineering) |

**Table of Contents**

|  |
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|  |

Introduction 4

Problem statement 4

Features of the system 5

Objectives 5

Methodology 5

Utilization of the results 6

Work Schedule 7

Proposed Time Schedule 8

1. **Introduction:**

The KP Textbook Board online system aims to facilitate and encourage the use of educational technologies by providing digitized content, relevant supplementary resources, and online assessment tools for students and educators.

The electronic books, or e-Books, offer students, teachers and schools an additional medium or tool of instructions that can support or enhance the learning process. Using e-Books as text books in the classroom at schools is a new paradigm especially in developing countries.

It all began in 1971, when Project Gutenberg was started by Michael Hart who used computer to store, retrieve, and search information. It was named as e-Books or electronic versions of print books. Since that, this Project Gutenberg creates thousands of free texts and copies of books which can be downloaded or accessed online.

One of the successful stories of e-Books refers to the e-Book project of Punjab Text Book Board, developed by Punjab Information Technology Board (PITB), which replaces print textbooks with e-Books. This project allows students and teachers of the school to search for specific book, a specific chapter, and then specific topic both in audio and video. They have not covered that part of the online book view.

We will build an online web portal where Teachers and students can download different books that is referred by Peshawar Text Book Board so that students and teachers can view word definitions, bookmark pages, highlight text, and type notes. Prior to this project, they needed to scribble on pages of a hardbound print book to do the same tasks.

This project is a fine example of how most developed countries are well versed with the use of e-Books in classroom. We would talk to KP text book board to extend the idea so that schools and colleges can view books online in class rooms and don’t need to carry the heay bags to the schools and colleges.

Some how, some developing countries like Indonesia, Turkey and Singapore are still grappling to use them. In Malaysia, the Electronic Book Project (2001) was initiated by the Ministry of Education involving the use of the electronic books or e-Books in 35 schools over a period of five months.

The proposed system will be developed such that it will manage the core and most important part of the education department online. This system will be very efficient and will be proved a milestone for the development of the nation.

**2. Problem Statement:**

This is digital era which requires digital solutions. KP is not so much digitalized and people are seeking for digital things. Many students want to learn online and want to access books/notes online but we don’t have any solution or system for that. There is no system where student is not bound to carry the heavy bag everywhere. The existing system is entirely manual and have no access to students to check online books or extra resources. The idea that technology can revolutionize education is not new. However, the Internet, coupled with mobile, more affordable end-user gadgetry now lends itself as an enormously powerful digital medium to enhance the teaching and learning experience across the globe. Advances in information technology have enabled the “personalization” of the learning experience by providing access to learning and assessment resources – anywhere, anytime.  
  
We come up with an idea in collaboration with KP textbook Board to digitalize KP in sense of accessing online books for different grades/classes. Some of the Features of the proposed system are discussed below. These are the initials points we have identified. We hope we would add more features along the development of the system.

**3. The features of the project are as follows:**

* Admin Dashboard
* Student’s Dashboard.
* Teacher’s Dashboard
* Online Books Class wise.
* Online study Resources like paper patterns, notes etc.
* Online Quizzes for students.
* Online Complaints or suggestions about the book content.
* Others

**4. Objective of the project:**

Over many years, technology has become a pertinent point among the educators as a good and effective tool to teaching children. Somehow, research on the use of e-book as learning materials in the classrooms and particularly at schools is still in its infancy.

E-Books are still considered as a novelty in classrooms since they have just found their way in teaching and learning environment in some countries. Undeniably, e-Books have special features and criteria, which give a lot of inputs to the learning process (Sasson, n.d.).

Nonetheless, their usage offers some advantages which represent the benefits for students, school administrators and parents. For students, a part from reducing the burden of carrying heavy conventional textbooks, the use of e-Books brings a lot of impacts. E-Books benefit them physically, academically and psychologically.

An e-Book reader can compress the contents of a conventional textbook. Since students in Malaysia are typically required to bring a number of textbooks to schools daily, compressed versions of textbooks lighten the burden. Physically, the reduce weight enables the students to grow healthily without any damaging effects such as lower back pain, poor posture, spinal deformity over time and back problems in adulthood (Anderson, 2007). In terms of learning, students who are engaging e-Books may find the process is fun due to e-Book attractive features.

* There must be a framework for action consistent with the needs and strategies of the academy
* From the perspective of parents or guardians, the use of e-Books in classrooms will be economical.
* Using multimedia technologies for teaching aids retention and enhances learning
* Developing quality learning objects consistently requires a process that must integrate technology, people and practices
* eLearning is both cost effective and efficient
* The Internet is a cost-effective delivery platform for eLearning
* This system has good management of data, along with integrity and minimizing redundancy
* It will be easier for the concerned department to search any book record easily online.
* The new system provides easier work than existing system for the Human Resource Department.

**5. Literature Review**

Before starting the project, developer was in contact with supervisor and also other departments representatives. The developer studied and noted different field of life and also grabbed some information from them. Additionally, around him, he observed that how much the proposed system will be efficient and successful to find a better solution and solve the problem.

The proposed system will digitalize the KP textbook Board and will automate the Text Books for different classes. Automated solutions using this system will make department activities more efficient by covering for the most important drawbacks of manual system, namely speed, precision and simplicity. A centralized system will ensure that the activities in the context of accessing online books can be managed effectively, while also making it more accessible and convenient for both students and staff. The system is a new concept in KP which came into existence because of the analysis of the students needs in KP where they have access to the internet but not to the online academia resources.

The Automation system is like an intermediary between staff and students, thus easing the activities of each regarding study of different books. It is a system that will make the books management process much organized. It would require certain crucial data to be pre-existing, which definitely suggest a dependency on certain other systems, especially ones concerning data acquisition. Like in this case it is Online E-Book Automated system.

The developer finally observed that the Solution, however, will manage a great deal of menial work. This keeps paperwork to its minimum, leading to ease of accountability, reducing confusions and increase in work rate and efficiency. The project will address firstly, access to various users including students, teacher, and super admin. Then customization based on requirement of KP textbook Board.

**6. Utilization of Research Results**

The application needs to be designed keeping both desktop and mobile users in mind which means the application must be user-friendly and it must enhance user experience. The application may be accessed both by laptop or by the user using his personal mobile phone. The application is analyzed with the required functionality, features and general experiences of the users. The user experience features such as icons, logo, widgets, and animation effects need to be consistent and effective i.e., the user interaction should be rich and smooth. The things need to be considered to develop this application is as follows.

* Must be a speed optimized.
* Must be Mobile Friendly (Both IOS and Android)
* The application should run on major platforms.
* Rich UI presentation.
* The application must be user-friendly.

**7. Tools and Technology:**

* + - * + Adobe Photoshop
        + Sublime Text (editor)
        + Xampp server
        + Html5/CSS3
        + Bootstrap4
        + Javascript
        + Jquery
        + Ajax
        + PHP.
        + MySQL.

**8. Work Schedule Plan**

Collection of literature Two Weeks

Study of Literature Two Weeks

Analysis of Proposed Scheme Three weeks

Preparation of Scheme/Model One Month

Implementation of Scheme/Model Three weeks

Analysis and Simulation One Month

Result Formulation Two weeks

Final Write-up & Thesis Submission One month

**9. Proposed Time Schedule**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Activity | Sep-Oct | | Nov-Dec | Jan-Feb | Mar-Apr | May-Jun | Jul-Aug | |
| Collection of Literature |  |  |  |  |  |  |  |  |
| Study of Literature |  |  |  |  |  |  |  |  |
| Analysis of Proposed Project/Research |  |  |  |  |  |  |  |  |
| Preparation of Project |  |  |  |  |  |  |  |  |
| Implementation of Project |  |  |  |  |  |  |  |  |
| Analysis |  |  |  |  |  |  |  |  |
| Result Formulation |  |  |  |  |  |  |  |  |
| Final Write-up & Thesis Submission |  |  |  |  |  |  |  |  |

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2. David, R. (2011) What Are the Advantages Of e-Book Readers Over Print Books? Available at http://www.itrainharder.com/what-are-thedisadvantages-of-ebook-over-print-books. Retrieved on 2 September 2011.
3. **Search Engine used for Getting help in various issues**

Dated By: 15th August, 2019 to 1st September, 2019

URL: http://[www.google.com](http://www.google.com)

1. **Website used for getting basic information about various concepts**

Dated By: 1sth September, 2019 to 15th September, 2019

URL: http://[www.wikipedia.org](http://www.wikipedia.org)

1. **Website used for Email Search Engine**

Dated By: 15th September, 2019 to 20th October, 2019

URL: <http://www.codeproject.com/Articles/863890/Email-Search-Engine>

**Undertaking**

I, Muhammad Afnan Khan, student of BS-Software Engineering hereby confirm that this is the original work which I am going to develop the application and this is no copy and paste. If found copy paste or dummy work, the competent authority of the university have lien to take action against me.

**Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Supervisor’s Comments