***Project synopsis report on***

**“QUESTION BANK MANAGEMENT SYSTEM”**

*Submitted by*

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**Abstract**

**The project "Question Bank Management System" aims to develop a user-friendly platform for efficiently managing and organizing a repository of questions. This system allows users, such as educators or content creators, to create, store, categorize, and retrieve questions based on various criteria like subject, topic, difficulty level, and more. Additionally, it facilitates easy editing, sharing, and assessment of questions, streamlining the process of creating assessments, quizzes, and exams. Through intuitive interfaces and robust database management, this system enhances productivity, collaboration, and the overall quality of educational content development.**

***Keywords*:** *Question Bank, Database, Repository, Question types, Question Paper*

1. **Introduction**

The Question Bank Management System is a software platform designed to streamline the organization, creation, storage, and retrieval of educational questions. It serves as a centralized repository where educators, content creators, and administrators can manage a wide variety of questions across different subjects and topics. The system allows users to categorize questions based on various criteria such as subject, topic, and difficulty level, making it easy to search and retrieve specific questions when needed. Users can also create, edit, and share questions, facilitating collaboration among educators and content developers. Additionally, the system may include features for generating assessments, quizzes, and exams using the stored questions. Overall, the Question Bank Management System enhances efficiency in educational content development and assessment creation.

1. **Aims and Objectives**

**Aims:**

1. Provide collections of questions for teachers

2. Question Paper Generator (quiz, sessional, end-semester exam)

**Objectives:**

1. Create an intuitive and user-friendly interface that enables educators to easily navigate the system, create new questions, and modify existing ones without extensive training.
2. Develop a system that allows educators to efficiently create, store, organize, and manage a large number of questions for various subjects and topics.
3. Establish a centralized repository for storing questions, ensuring easy access and retrieval by educators whenever needed.
4. Support a variety of question types, including multiple-choice, true/false, short answer, essay, and more, to cater to diverse assessment needs.
5. Create a easy to use Question Paper generator for university exams.

1. **General overview of the problem**

Manually preparing question papers is a time-consuming task that requires educators to spend significant hours brainstorming, writing, and formatting questions.

1. **Feasibility Study**

Technical Feasibility:

The required hardware, software, and technological infrastructure of the system are feasible from a technical perspective we are going to use HTML, JavaScript, CSS for frontend designing and MySQL & php for databases to create a robust and user-friendly system

Operational Feasibility:

The project we are developing as there is no need for users to have good knowledge in computer before using it. The user can learn and use the system by their own, he/she just needs to read the manual or tutorial from the developers.

Economic Feasibility:

The tools we will be using to develop the system are not expensive and the software’s are open source. All I need is time. Even the maintenance of the system will not be expensive. The system is indeed economically feasible.

1. **Problem Definition**

1. Time-Consuming Process

2. Maintenance Challenges

3. Limited Scalability

4. Risk of Errors and Inconsistencies

5. Difficulty in Organization and Retrieval

1. **Proposed Solution Strategy**
2. Online question bank management systems provide intuitive interfaces for educators to create, edit, and organize questions efficiently. Questions can be categorized by subject, topic, difficulty level, and other relevant criteria, making it easier to manage and retrieve them when needed.
3. These systems enable educators to build and maintain a comprehensive question pool by adding new questions regularly. This ensures a diverse range of assessment materials and reduces the likelihood of question repetition across different exams.
4. Online systems automate repetitive tasks involved in question paper creation, such as question selection, formatting, and arrangement. This saves educators valuable time and allows them to focus on other aspects of teaching and learning.

1. **Literature Survey or Survey**

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| --- | --- | --- | --- |
| **Author name/ Journal nam/ Title of the paper** | **Work Done** | **Methods and Materials** | **Research Gap** |
| El-Sofany, H. F., Al-Jaidah, N., Ibrahim, S., & Al-kubaisi, S. (2009). Web-based" questions-bank" system to improve e-learning education in qatari school. *Journal of Computer Science*, *5*(2), 97. | 1. Exams generation: Teachers can store many types of questions like multiple choices, true/false and fill in the blanks. The system uses an intelligent algorithm to generate balanced exam sheet, that containing different types of questions, covering the entire curriculum and displaying gradually from easiness to difficulty. | The administrator application: This application provides the school administrator with simple tools to manage the information of the Questions-Bank system.  The following are some features provided by the administrator application:  • Activate/Inactivate the system  • Import and Export the questions-bank database  • Send automatic email immediately containing the new password whenever the user changes his/her password  • Administer the basic information of the system such as: Levels data, subjects or courses data, classes' data, teacher's data and students' data | No Question Paper Generator |
| 1. Communication: The system has a communication tool that allows students and teachers to interact together and discuss their activities. | The teacher application: This application provides the teachers with various tools to construct the system services. The following are some features provided by the teacher application:  • Change account password  • Manage (add, update, delete and display) all the system services (reviews, exam questions, quizzes, previous exams and model answers) |
| 1. Course management: The system is highly flexible and doesn’t necessitate any programming skills from its potential users. Thus, teachers can add, delete and update their course materials at any moment through the web. | The student application: This application provides the students with interactive tools to use the services of the system. The following are some features provided by the student application:  • Change account password  • Download assignments, revision documents, previous exams and other files that are uploaded by the teachers  • Take web-based quizzes, exams, assignments, interactive tutorials and reviews |

1. **Project Plan**
   1. **Team Structure:**
2. **Hibung Tasso**
3. **Nischal Nikhil**
4. **Anjula Gupta**
5. **Zinia Ahmed**
   1. **SDLC (*in case of Application Development*)**
   2. **Gantt Chart (Project Schedule)**
   3. **Hardware and Software Requirement Specifications:**
6. **Desktop having any browser (chrome, firefox, brave etc.**
7. **Conclusion**

Question Bank Management System" revolves around the development of a comprehensive software solution tailored to the needs of educators and educational institutions. This system aims to streamline the creation, organization, storage, retrieval, and management of questions used in assessments, exams, quizzes, and other educational evaluations.