A Seminar

On

"Applications for Assessment of Quality of Textbook / Reference Books / E-Book "

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CERTIFICATE

This   is   to   certify   that   ***Mr*** / ***Ms***
_____ has successfully completed
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"_____
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Bachelor Degree in Mechanical Engineering of Savitribai Phule Pune
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Date: /   /2019

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Abstract

Problem Statement: Applications for Assessment of Quality of Textbook / Reference Books / E-Book

Solution to the Problem: The proposed solution to the problem statement involves the implementation of a review system that is exclusive to subject matter experts with valid teacher identification numbers. This ensures that the reviews are credible, authoritative, and reliable. Additionally, the solution incorporates an intuitive user interface that promotes ease of use. This not only simplifies the review submission process but also encourages participation from both experts and users.

Our Product: The web-based application will serve as a global platform for users worldwide to contribute online reviews and evaluations for medical textbooks. It will introduce a universally accessible review input system accommodating experts and users from diverse backgrounds, broadening the pool of reviewers and enhancing the variety of perspectives. The platform will streamline the data summarization process to boost efficiency and precision in consolidating reviewer comments and decisions. Additionally, it will provide a foundational framework for endorsing textbooks, potentially leading to their inclusion in the catalog of recommended publications by authoritative entities like NCISM. The platform will also examine how different assessment scales affect the quality of medical educational resources and the overall competency levels of students in the field. To promote user engagement and potential revenue generation, the website will feature a blog section allowing users to submit content related to specific medical topics. This comprehensive approach aims to improve medical education by facilitating the exchange of knowledge and enhancing the quality of educational resource

Introduction

In the realm of education, it is crucial for aspiring doctors to choose textbooks, reference books, and e-books. However, a concern has arisen within the Ayurveda, Unani, and Siddha (ASU) systems. Numerous books vie for readers attention, each claiming alignment with the curricula outlined by either the National Commission for Indian Systems of Medicine (NCISM) or the Central Council of Indian Medicine (CCIM). Yet amidst this abundance lies a truth there is a disparity in the quality of these books. While some are meticulously crafted, others exhibit signs of being motivated by gain. The variation in the quality of ASU textbooks has had an impact on the education of aspiring doctors. Students, who are eager to gain knowledge and proficiency, often come across textbooks that undermine the standards of education. Understanding the seriousness of this problem and its potential consequences for the healthcare system, the NCISM has taken measures. In response to this dilemma, NCIMS has appointed an expert committee to design an assessment scale targeting medical textbooks and reference books produced at ASU.This committee has taken great care in designing a comprehensive assessment tool designed to meet some important objectives. To begin with, this strategy is aimed at making educators able to equip themselves with effective learning materials for implementation in the classroom. The second objective is to be an instrument that authors turn to when they need to produce quality textbooks. Finally, this will furnish the standards required for the approval of books intended for acclaimed lists, such as those of the topmost authorities. There is an urgent need for such a technologically advanced procedure to accelerate this complex process and welcome global perspectives. An application designed for such an occasion is likely to bring about a great change in the evaluation of ASU medical textbooks. This enables it to gather reviews from numerous people globally and organize that vast review database for quicker and easier appraisals
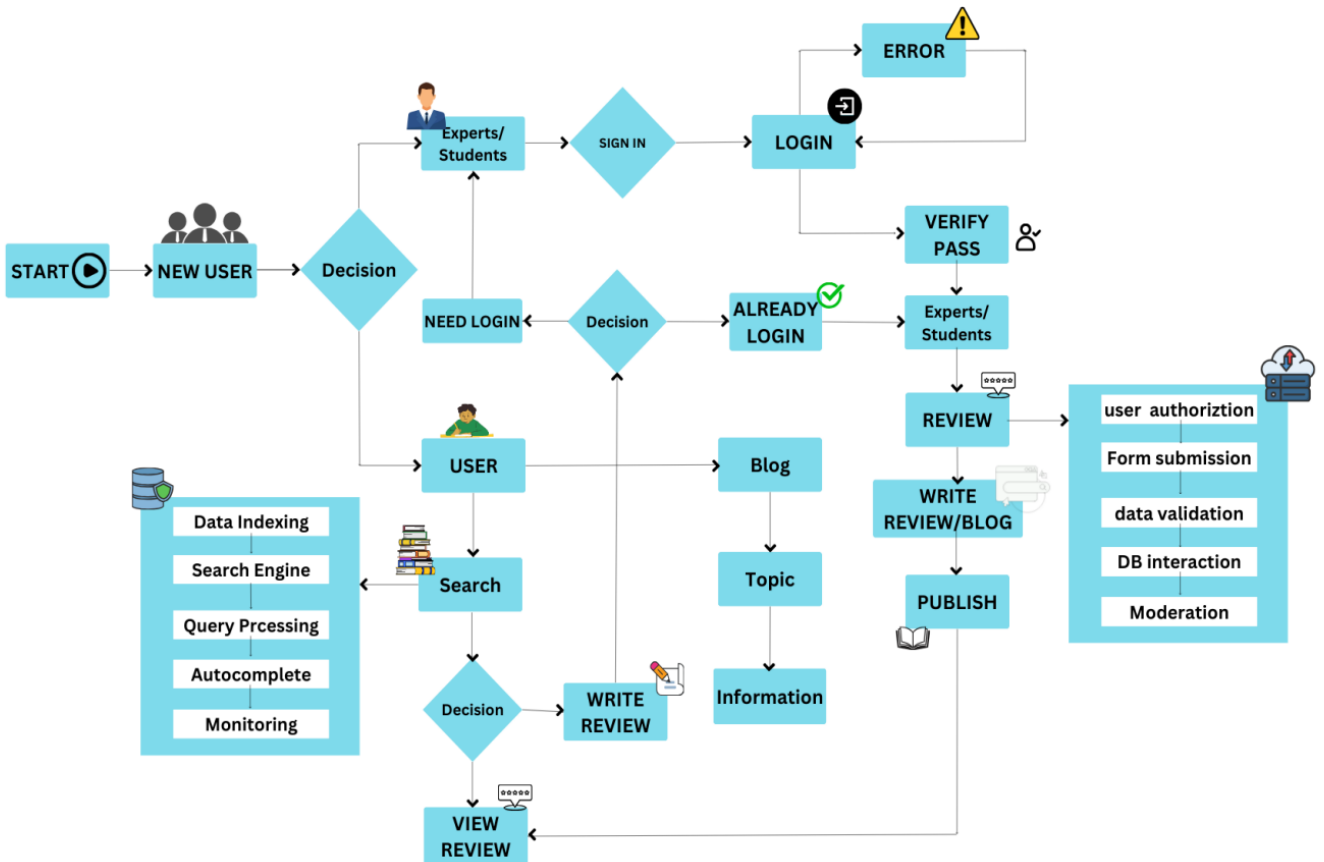
How It Functions

Our website operates through a systematic workflow that ensures secure and hassle-free access for professors and students in the medical field. Initially, user data is collected from collaborating medical colleges, encompassing the names and contact information of professors and students. Subsequently, your website's admin team engages in manual user registration, meticulously creating individual profiles for each user using the provided data. Unique and temporary usernames and passwords are generated for all users, which are securely stored within the system. Automated email notifications are then dispatched to users, delivering their usernames and temporary passwords. Encouraging users to replace these temporary passwords for enhanced security upon their initial login. To access the website's resources, users proceed to a dedicated login page where they enter their credentials. The system, upon login, distinguishes each user's role, be it a professor or student, based on the information supplied by the medical colleges. This streamlined approach ensures user friendly access to your platform without the need for individual sign-ups, enhancing convenience and efficiency. Additionally, users who are not signed in are granted view-only access to the reviews, while signed-in students and teachers are empowered to contribute valuable insights and feedback to the platform's growing repository of medical book reviews.
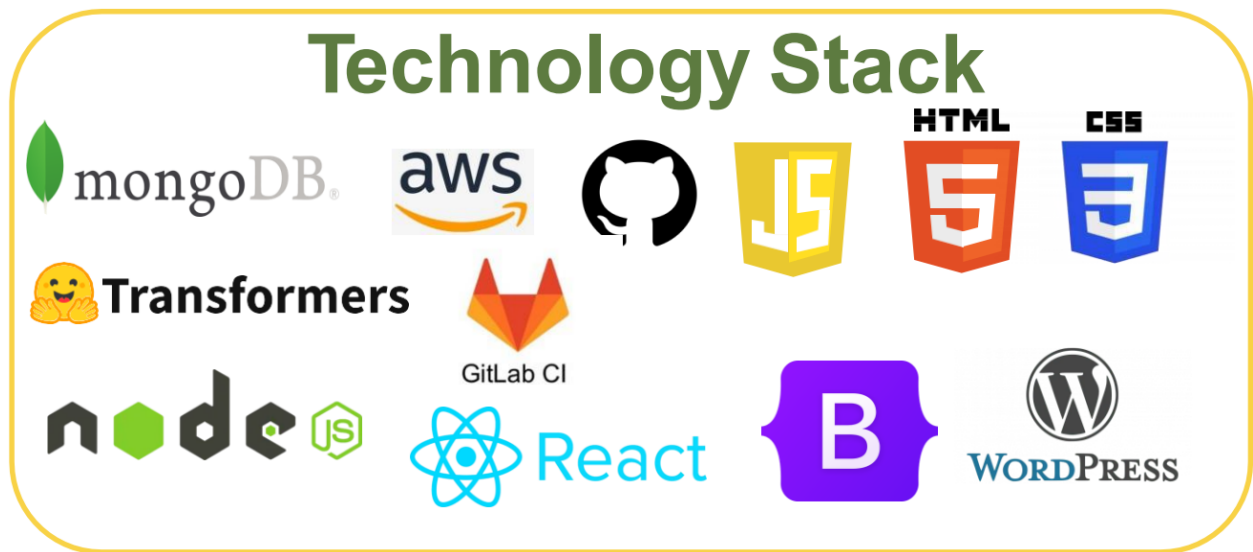
Idea/Approach Details

We aim to develop a web-based application that functions as a global platform enabling users worldwide to contribute online reviews and evaluations for medical textbooks.

➢ Introducing a universally accessible review input system that can accommodate experts and users from around the world, thereby broadening the pool of reviewers and enhancing the variety of perspectives.

➢ We've streamlined the data summarization process to boost efficiency and improve the precision of consolidating reviewer comments and decisions.

➢ Provide a foundational framework for endorsing textbooks to be incorporated into the catalog of recommended publications by apex/regulatory entities, such as NCISM.

➢ Examine how the assessment scale affects the quality of medical educational resources and the overall competency levels of students in the field of medical education.

➢ The website features a blog section that allows users to submit content related to specific topics, thereby establishing a potential revenue generation model for the website. The prototype will function as follows

Flow-Chart

START ▶ → NEW USER → Decision

Decision → Experts/Students → SIGN IN → LOGIN → ERROR ⚠

ERROR → LOGIN

LOGIN → VERIFY PASS → Experts/Students → REVIEW → user authoriztion / Form submission / data validation / DB interaction / Moderation

ALREADY LOGIN → Experts/Students

Decision → NEED LOGIN

Decision → ALREADY LOGIN

NEED LOGIN → Experts/Students

Decision → USER

USER → Blog → Topic → Information

USER → Search → Data Indexing / Search Engine / Query Prcessing / Autocomplete / Monitoring

USER → Decision

Decision → WRITE REVIEW

Decision → VIEW REVIEW

REVIEW → WRITE REVIEW/BLOG → PUBLISH → VIEW REVIEW

Technology Stack

Other Features

Use Cases

- Facilitate **global participation**, allowing **subject matter experts, medical professionals, and students** to contribute online reviews and assessments of medical textbooks.

- Increase in **efficiency and expediency** of the reviewer remarks and decision summarization process.

Frontend User Interface

- A two tier online portal based on web application using both **Node.js** on the **server side** and **JavaScript** on the **client side**, creating a **JavaScript Full Stack website.**

- Incorporate a responsive design approach to **optimize the interface's adaptability**, ensuring seamless functionality across diverse device types.

Business Potential

- The implementation of a dedicated **blog section** with a **strategic monetization** framework in place, designed to harness content as a **revenue generation channel**.

- The blog segment serves as a **dynamic platform** to engage the target audience, drive income, and foster sustainable **financial growth** for the business.

Show Stopper

- We will provide **login credentials** to a list of a few **chosen teachers and students**. With it, they will only be able to **access** the **blog section** and give their **expert review**.

- An **intuitive user interface** (UI) that promotes ease of use, facilitating a **streamlined submission** process for reviewers, including both experts and users.

Conclusion

In conclusion, the problem statement highlights a critical issue in the medical education system, where the quality of textbooks in ASU medical systems varies significantly. This discrepancy can adversely affect the education and training of medical students, leading to substandard learning materials and potentially impacting the quality of future physicians. To address this challenge, NCISM took a proactive approach by forming an expert committee to develop an assessment scale for textbooks and reference books. The assessment scale serves multiple vital purposes, including assisting teachers in selecting highquality textbooks for their students, providing guidance for textbook authors, and offering criteria for recommending textbooks to apex/regulatory bodies. This systematic approach helps ensure that only the best educational materials are endorsed and used, ultimately enhancing the overall standard of medical education. To further streamline and enhance the assessment process, the development of an application is proposed. This application aims to collect reviews from individuals worldwide, making the evaluation process more diverse and comprehensive. Additionally, it offers the ability to efficiently summarize reviewer feedback and decisions, making the assessment process faster and more accessible. In summary, the problem statement recognizes the importance of quality medical textbooks in shaping the future of medical practitioners. It underscores the significance of an assessment scale and an application to ensure that only high-quality textbooks are recommended and utilized, thereby improving the standards of medical education in the ASU medical systems

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