



ABMSP'S Anantrao Pawar College of Engineering & Research, Pune-09

**“Applications for Assessment of Quality of Textbook /
Reference Books / E-Book ”**

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Abstract

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 education, aspiring doctors must choose quality textbooks, reference books, and e-books. However, in Ayurveda, Unani, and Siddha (ASU) systems, there's a problem with varying book quality. Some align with curricula while others are motivated by profit. This impacts students' education. To address this, the National Commission for Indian Systems of Medicine (NCISM) has formed an expert committee to assess ASU medical textbooks. The goal is to provide effective learning materials, guide authors in creating quality texts, and establish standards for acclaimed book lists. This technologically advanced procedure allows for global input and quicker evaluations.

How It Functions

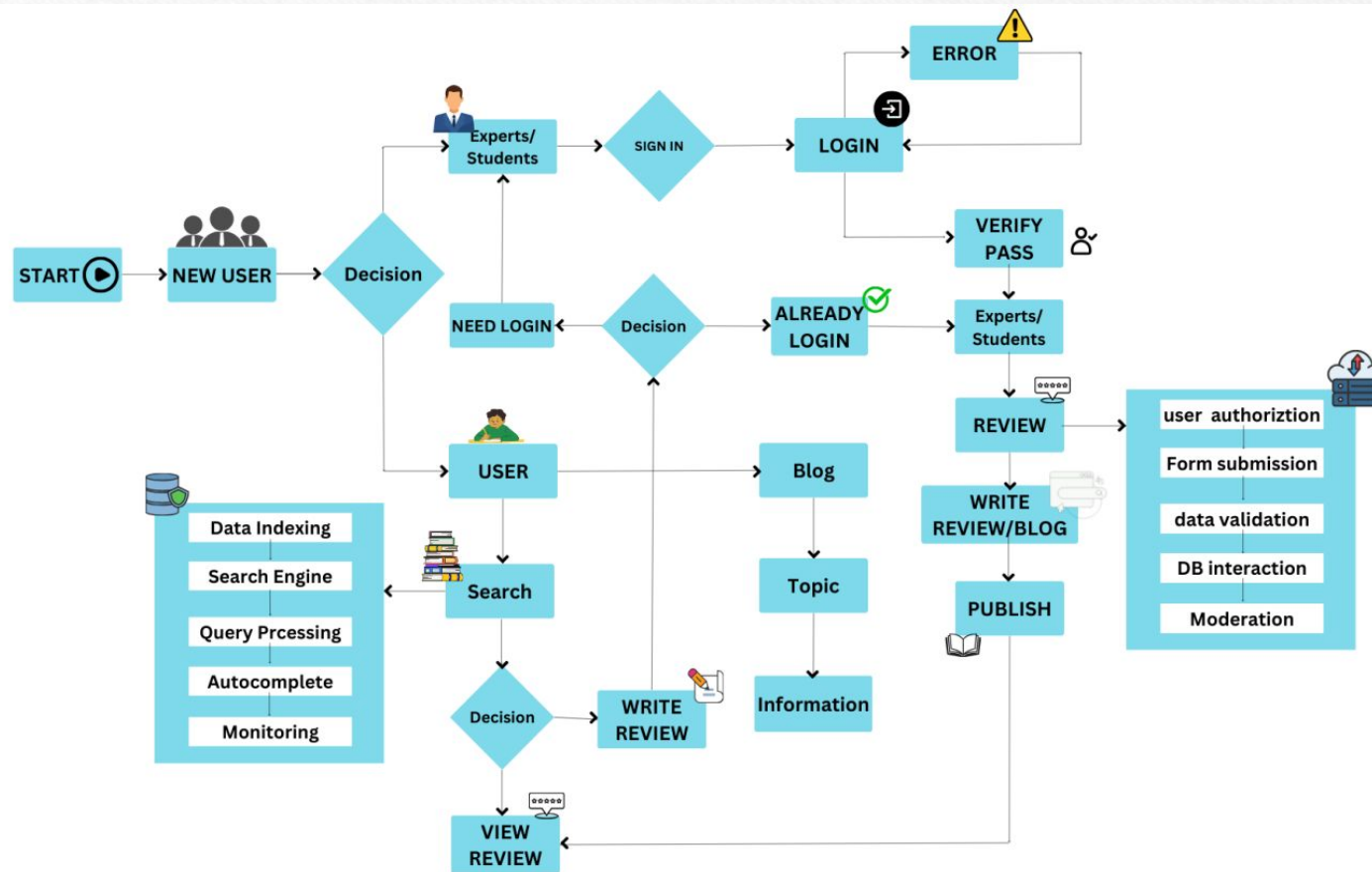
Our website in the medical field offers secure and hassle-free access for professors and students through a systematic workflow. We collect user data from collaborating medical colleges, including professors' and students' names and contact information. Our admin team manually creates user profiles with unique, temporary usernames and passwords, which are sent to users via email. Users are encouraged to replace these temporary passwords for better security on their initial login. When users log in, the system identifies their role (professor or student) based on the information from the medical colleges. This streamlined approach eliminates the need for individual sign-ups, making access more convenient and efficient. Non-signed-in users can view reviews, while signed-in students and teachers can contribute insights and feedback to the platform's growing repository of medical book reviews.

Idea/Approach Details

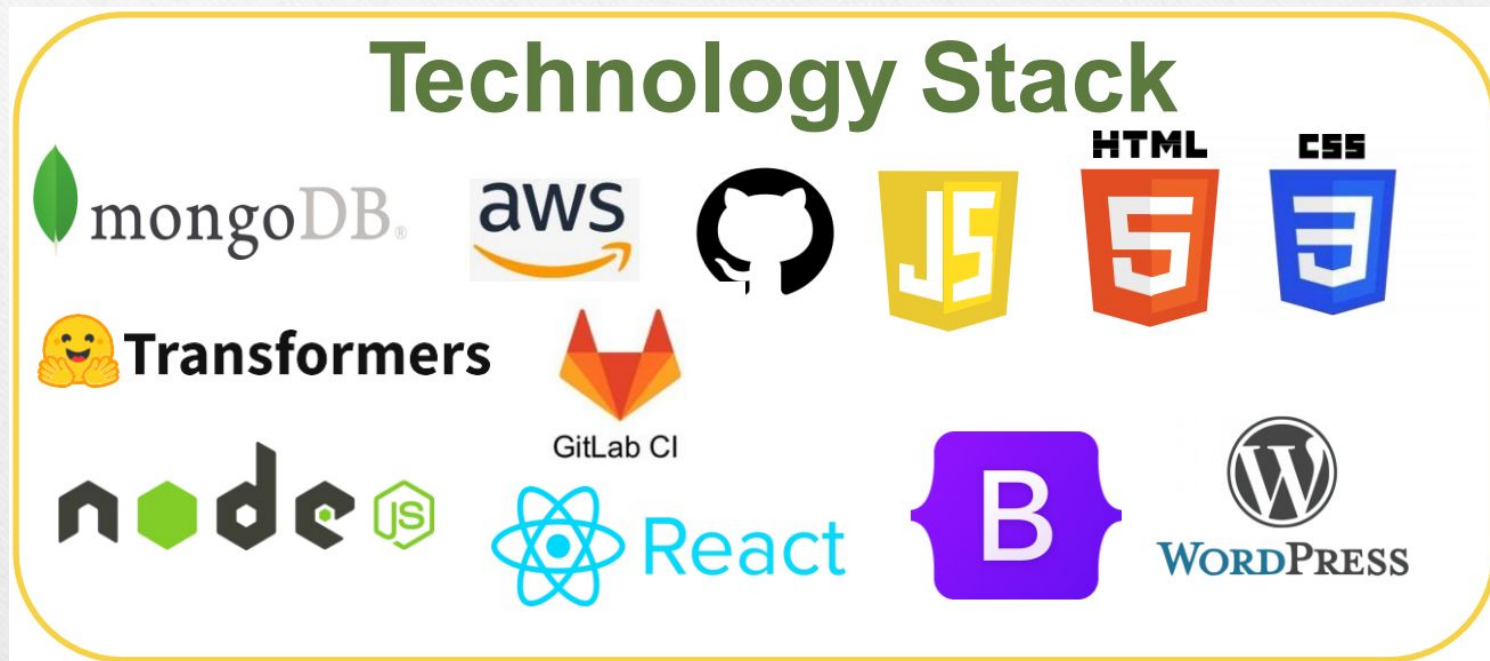
We aim to develop a web-based application that functions as a global platform enabling users worldwide to contribute online reviews and evaluations for medical textbooks.

- 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



Tech 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 high quality 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.

References

www.google.com

www.youtube.com

<https://chat.openai.com>



Thank you

Any Questions