

Books/ E- Book

Problem Statement Title: Application for Assessment of Quality of Textbook/ Reference

6.

8.

9.

Team Name: OJAS Team Leader Name: Prem Mungle College Code: C-58531 Institute Name: Bajaj Institute of Technology, Wardha

## **Impact**

Misleading Information: Poor-quality medical books may contain inaccurate or outdated information, leading to incorrect treatment decisions.

Hindered Learning: Medical students rely heavily on textbooks for their education. Low-quality books can

hinder their understanding, making it challenging to grasp essential concepts.

Compromised Patient Care: If medical professionals rely on subpar resources, patient care may suffer. Misinformed doctors could make critical errors in diagnosis or treatment.

Wasted Time and Money: Students and institutions invest significant time and money in textbooks.

Poor-quality books can be a waste of these resources. Outdated Practices: Medicine is constantly evolving. Outdated books can perpetuate practices that are no longer considered best standard, potentially endangering patients. Impact on Research: Low-quality books can affect research quality, as they may not provide the

necessary foundation for evidence-based studies.

**Proposed Solution** 

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- 3.
- 4.

to the book publisher.

- have the option to accept or reject the request to review a book. If they accept, they will be provided with a functionality to evaluate the book based on various criteria as prescribed by NCISM. These criteria include the credibility of the
- The NCISM will be provided with the dashboard to assign reviewers for the book. NCISM and CCIM will provide syllabus and according to syllabus reviewer will review the book. Reviewers will receive requests from the NCISM to evaluate these books (maximum 3 reviewer per book). Reviewers

author, publisher, the physical presentation etc.

their students, share the books amongst peers.

the buyers to buy the books according to their needs.

- Authors and publishers will be provided with the functionality to submit the book information to the National Commission for Indian System of Medicine (NCISM) for review.
- NCISM criteria with mechanism to collect feedback from the global audience.

Theme Name: Smart Education

- We will be developing a website to provide the functionality for assessing the quality of books using predetermined

Once the review is complete, the reviewer will send a detailed report to NCISM. Then NCISM will be provided with

the mechanism to convene the meeting of the committee and upload the final decision to approve or reject the book

We are developing a Books E-Marketplace for students to buy the NCISM approved books The book publisher will be

On the E-Marketplace, we are developing a feedback system that will allow students and teachers(verified) from

around the world to share their feedback (based on provided Questionnaires). This feedback will be sent to the NCISM

Teachers will be provided with the functionality to register on portal, give feedback for the books, recommend books to

Colleges readers club will be provided with the functionality to form a group on the portal and the share books review

provided with functionality to manage their books inventory on the provided platform.

& author/publisher for improving the quality of the books in further editions.

### **Objectives**

**Quality books assessment scale** 

In addition to NCISM parameters here are few additional parameters to maintain quality

books, reference books and E-Books.

Every chapter consist of 5 marks and in addition apply NCISM

of quality books. Preventing Poor Quality of Education: prevent students from falling into the trap of substandard textbooks which can lead to a decline in the

Quality Assurance: Ensure that medical textbooks meet a high standard

quality of education and medical practitioners. **Evaluation**: Enable reviewers to review books more accurately with the

help of parameter. Guiding Students: Help students to choose the best textbooks

recommended by Teachers and NCISM.

Global Student Feedback: Feedback from all students across the globe.

**Availability of books:** Make books easily accessible to everyone.

Sr. No. **Additional Parameters** Introduce new topics by referencing to what the learner already

knows 2. Pairing graphics with text.

reference by the author itself.

subject matter parameters.

3. Interleaving different but related topics and skills.

Practical knowledge. Try to cover complex topics with the help of videos attach video

Sr. No.

2.

3

6.

5.

**Rating Parameter for Student & Teachers** 

How easily book is readable

**Parameter** 

Quality of content in depth, short etc.

**Score** 

Effective Score Italige for			
Star allocation			
0<=Score <=20 20<=Score <=40			

Effective Score Range for

Total Score

**Total score** 

10

10

10

10

10

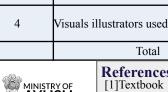
50

100

Parameter for textbook quality assessment scale NCISM [1]

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Sr. No.	Criteria	Total score	
A	Author Credibility	50	
В	Publisher credibility	25	
C	In general	14	
	Physical appearance, structured & organisation	130	

	25
	14
ed &	130
	81
	24
	28
Total Score	352



50 20 15 60<=Score<=80 15 80<=Score<=100 100

(Language)

Font size, font style

Total References:

**Stakeholders** Author / Publisher Reviewer

Subject matter

Language

Illustrations

Ε

F

G









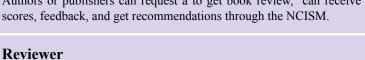
MINISTRY OF **AYUSH** 

[1]Textbook Quality Assessment Scale - NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI, Textbook Quality Assessment Scale.pdf 2023 Sept 20

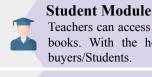
## **Modules of Web Portal Application Form** Authors or publishers can request a to get book review, can receive

Reviewer

**☆☆☆** 



The reviewer will evaluate the book based on specific criteria, submit a comprehensive report with scores to NCISM, and provide feedback



#### Teachers can access the list of books and also use the book marketplace to purchases the books. With the help of questionnaire teachers can recommend the books to the buyers/Students.

Ministry of AYUSH have access to NCISM functionality.

**AYUSH** 

Teachers module

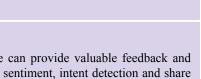
will helps the system to show the analysis.

A committee will make the final decision regarding the accuracy of scores and reviews, as well as whether there is any bias, and whether to approve or reject.

Feedback Students and teachers worldwide can provide valuable feedback and suggestions, and we will analyze sentiment, intent detection and share them with NCISM, authors, or publishers to enhance quality.

and suggestions to the author or publisher.

**NCISM Committee Members** 



The author/publisher sends 5 hard copies of the book to the NCISM for

review. As per the domain of the book, NCISM will allot the reviewer.

committee will make the final

Methodology

Teachers will approved himself by the id card, can seen the list of books and also purchases the book from the marketplace, submit the answers of the questionnaire

> decision whether to approve or reject the book All approved books are available on the book marketplace.

The reviewer will send a final report

of a book to NCISM and the NCISM

**Book Marketplace** 

Books approved by NCISM will be available for purchase in the marketplace and with the help of analytical view on marketplace buyer can purchase the quality of book.

Reviewers have two choices: either accept the book or reject the book to review. If the reviewer accepts the book then the reviewer performs the assessment on the book and sends the score to NCISM and as well as to the

author/publisher.

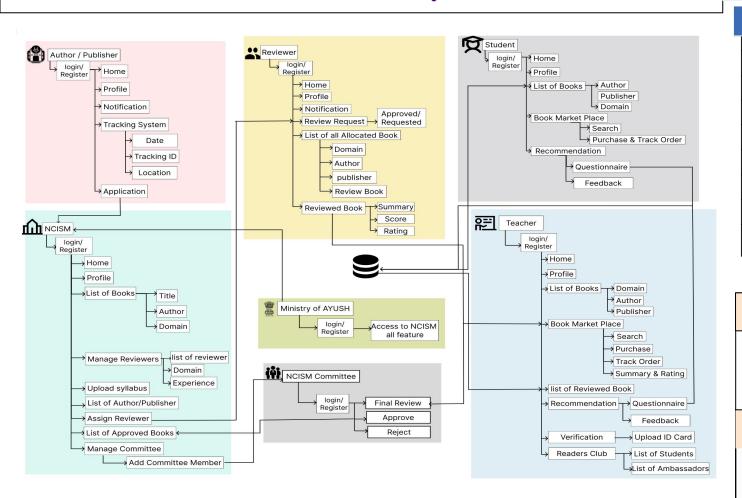
Students can purchase the books and submit their feedback on the books. Teachers can buy the books, give

feedback, and recommend the books

to the students

**Book recommendation** Teachers will suggest books based on specific university, topics, etc. It will visible under student login and analytics at marketplace.

### **Process Flow of System**



#### **Reviewer Credibility**

**Parameters for Reviewer** 

Medical Expertise

Specialization

**Teaching Experience** 

**Publication Record** 

Research Experience

**Board Certifications** 

**Reviewer Bais** 

**Availability and Timelines** 

Allignment with Educational Goals

#### **Dependency**



**Internet Connectivity** 

#### **API Used:**

MonkeyLearn - Text Classifiers

#### **Technology Stack**

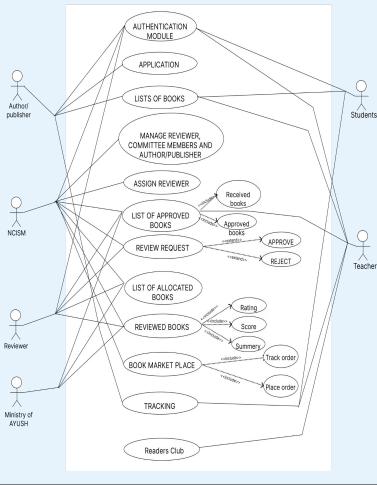








## **Use-Case Diagram**



# OJAS Author Committee

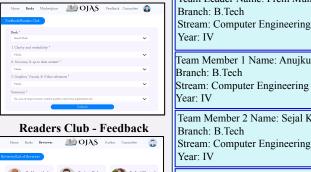
List of Reviewer





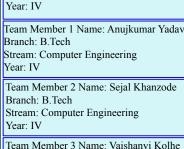
ayurvedic





**Reviewer - Enter Marks** 





Branch: B.Tech

Year: III

Stream: Computer Engineering

**Team Details** 

Team Leader Name: Prem Mungle

Team Member 4 Name: Akanksha Rai Branch: B.Tech Stream: Computer Engineering Year: III Team Member 5 Name: Gayatri Jadhav Branch: B.Tech Stream: Computer Engineering Year: II

Team Mentor 1 Name: Mr. Aitesham Kazi

### **Conclusion:**

Providing a Quality textbook/reference book to students.

**Snapshots** 

- Review books online using our system.
- Recommend best books to student by Teachers.
- World wide feedback from all students and teachers.

Category: Academic Expertise: Big Data

Team Mentor 2 Name: Mr. Amol Jumde Category: Academic Expertise: Machine Learning Domain Experience (in years): 4 Years

Domain Experience (in years): 7 Years