PRESIDENCY UNIVERSITY

50 YEARS

Application for Assessment of Quality of Textbook/Reference Books/E-Book

A PROJECT REPORT

Submitted by

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Under the guidance of,

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IN

COMPUTER SCIENCE AND ENGINEERING

PRESIDENCY UNIVERSITY

BENGALURU

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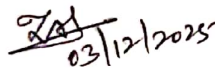
Private University Estd. in Karnataka State by Act No. 41 of 2013

Itgalpura, Rajankunte, Yelahanka, Bengaluru – 560064

50 YEARS

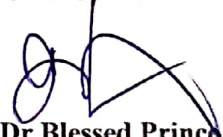## PRESIDENCY SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

BONAFIDE CERTIFICATE

Certified that this report "Application for Assessment of Quality of Textbook/Reference Books/E- Book" is a Bonafide work of "Lavanya M (20221CSE0392), Posina Supraja (20221CSE0266), Talluru Chethana (20221CSE0385)", who have successfully carried out the project work and submitted the report for partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING during 2025-26.

03/12/2025

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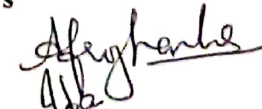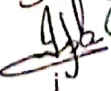Coordinator PSCS
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DECLARATION

We the students of final year B.Tech in COMPUTER SCIENCE AND ENGINEERING, at Presidency University, Bengaluru, named Lavanya, Posina Supraja, T Chethana, hereby declare that the project work titled "Application for Assessment of Quality of Textbook/Reference Books/E-Book" has been independently carried out by us and submitted in partial fulfillment for the award of the degree of B.Tech in COMPUTER SCIENCE AND ENGINEERING during the academic year of 2025-26. Further, the matter embodied in the project has not been submitted previously by anybody for the award of any Degree or Diploma to any other institution.

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ABSTRACT

Textbooks continue to serve as essential pedagogical resources in higher education, yet the assessment of their quality of ten remains fragmented, subjective, and limited in scope. Scholarly studies by Cobb (1987), Gurung and Martin (2011), Fey and Matthes (2018), and others emphasize the need for structured frameworks, user-centered evaluation, and transparent quality criteria to ensure that textbooks align with curricular and pedagogical goals. Building on these insights, this project, titled **"Application for Assessment of Quality of Textbook/Reference Books/E-Book (TextAssess)"**, presents a full-stack web application that operationalizes these research-based evaluation principles within a digital ecosystem.

The frontend of TextAssess utilizes React.js. The system also uses TypeScript, and even Tailwind CSS; This ensures a very intuitive, very responsive user interface. The interface provides textbook browsing capabilities. One can also submit reviews! Then there are the academic discussion elements, plus user dashboards. Even the administrative aspect can be monitored. The back end in corporate Supabase to do even better, built on PostgreSQL of course. It provides safe data storage. It ensures safe user authentication and access. The system allows role-based permissions; a plus for the students and administrators. Evaluation can become quite participatory in nature because of this design. Users give qualitative or quantitative assessments, all centered on clarity. Relevance and accessibility matters too. They also value, of course, good pedagogical content. All taken from past writings and research

The system underwent some crucial testing. Testing involved various sample datasets. Testing has demonstrated clear synchronization; seamless between the frontend and backend really. One can efficiently find user-written reviews; and have evaluation metrics measured correctly too! Admins have review-approval access now and can overview feedback. So quality summaries can be made, also very important to consider. Such things promote great selections of resources. Messaging and threaded discussion exist as collaborative aspects. They help people work together smoothly. These boost transparency and help people truly engage.

Ultimately, TextAssess links the abstract; textbook evaluation with true data analysis. A robust framework evaluation comes through with adaptable scalable designs. That really sums the system. This presents one solution regarding institutional evaluations.