

MICROLECTURE MOBILE LEARNING SYSTEM

A PROJECT REPORT

submitted by

JABIN JALEEL

LLMC18MCA015

to

The APJ Abdul Kalam Technological University

*in partial fulfillment of the requirements for the award of the Degree of
Master of Computer Applications*



Department of Computer Applications

**LOURDES MATHA COLLEGE OF SCIENCE AND
TECHNOLOGY KUTTICAL, THIRUVANANTHAPURAM**

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MASTER OF COMPUTER APPLICATIONS



**DEPARTMENT OF COMPUTER APPLICATIONS
LOURDES MATHA COLLEGE OF SCIENCE AND TECHNOLOGY
KUTTICAL, THIRUVANANTHAPURAM**

**DEPARTMENT OF COMPUTER APPLICATIONS
LOURDES MATHA COLLEGE OF SCIENCE & TECHNOLOGY,
KUTTICAL,
THIRUVANANTHAPURAM**



CERTIFICATE

This is to certify that the report entitled “**Microlecture Mobile Learning System**” submitted by **JABIN JALEEL** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications is a bonafide record of the project work carried out by him under my guidance and supervision.

Prof. Bismi K Charleys
(Internal Supervisor)

Mr. Kiran
(External Supervisor)

Prof. Neethu Mohan
(Project Coordinator)

Date

Prof. Selma Joseph
(Head of the Dept.)



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ADHOC TECHNOLOGIES PRIVATE LIMITED

8th floor, Yamuna, Technopark Phase-III
Thiruvananthapuram-695581, Kerala, India.

www.adhoctechnologies.org

PH: 0471 4019995

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. JABIN JALEEL (Reg No: LLMC18MCA015)** student of **"LOURDES MATHA COLLEGE OF SCIENCE AND TECHNOLOGY, KUTTICAL, THIRUVANANTHAPURAM"**, has participated in the live project titled **"MICROLECTURE MOBILE LEARNING SYSTEM"** which has been implemented successfully in our company during the period March 2021 to June 2021.

During the period we found him sincere, honest & hardworking. We wish him all the best in all his future endeavour.

Best Regards

For AdHocTechnologies Pvt Ltd


HR Manager



DECLARATION

I undersigned hereby declare that the project report “**Microlecture Mobile Learning System**”, submitted for partial fulfillment of the requirements for the award of degree of Master of Computer Applications of the APJ Abdul Kalam Technological University, Kerala is a bonafide work done by me under supervision of Prof. Bismi K Charleys. This submission represents my ideas in my own words and, I have adequately and accurately cited and referenced the original sources. I also declare that I have adhered to ethics of academic honesty and integrity and have not misrepresented or fabricated any data or idea or fact or source in my submission. I understand that any violation of the above will be a cause for disciplinary action by the institute and/or the University.

Place : Trivandrum

Date : 20/07/2020

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ABSTRACT

The rise of mobile cloud computing technology has given a chance to develop various computationally intensive applications for mobile devices. To use this opportunity in education, a new Next Generation Classroom Learning (NGCL) method called “Quiz inline” in the video is introduced. In Micro lecture Mobile Learning System, the user interacts with the video by answering the quiz at the end of each concept rather than at the end. The context and the questions uploaded are converted into a video. The video starts playing and pauses when the question is displayed and resumes when the student answers the question. Video quizzes need to be streamed continuously even when multiple users access the same video. To achieve the goal, “Online Frame Selection” mechanism is used, where-in which the key frames are extracted and converted to video. In order to facilitate video transmission to the students without any delay, a Platform as a Service mobile cloud environment is used from where those videos and video-quizzes are stored and streamed. By applying computational offloading, the videos are streamed to a group of users in a classroom. In the proposed system user will use mobile application for e-learning. Online/offline video streaming will be available for each and every class, user interacts with the video by answering the quiz at the end of each concept rather than at the end. Also, there will be chatbot available for user to interact at each video session. Thus, user get a feel of live session with a tutor in each and every video class.