A

Project Report

On

ACADEMIX – Online classroom

Web-Application Design

Submitted to

SHIVAJI UNIVERSITY, KOLHAPUR

For the partial fulfillment of the requirement for the award

MASTER OF COMPUTER APPLICATION

(SEM-II) by

Ms. Kritika Vijaysingh Rajput

Under the guidance of

Prof. A.B.Patil

Through

V P
I M S R
SANGLI
योजकस्तत्र दुर्लभः।

The Principal

V. P. INSTITUTE OF MANAGEMENT STUDIES

AND RESEARCH, SANGLI

2023-24

V. P. Institute of Management Studies

& Research, Sangli 416 414

Certificate

This is to certify that, the project report entitled **ACADEMIX – Online Classroom** is record of project work carried out in this college by **Ms. Kritika Vijaysingh Rajput** in partial fulfillment of the award of Master of Computer Application (Sem-II) as laid down by SHIVAJI UNIVERSITY, KOLHAPUR.

This project presents their sincere work carried out under my guidance in the year 2023-24.

Date:

Prof. A.B.Patil
Guide

Dr. Ms. V. S. Jadhav
H.O.D.

Examiner: 1) 2)

DECLARATION

To,

The Registrar,

Shivaji University, Kolhapur

Sir,

We **Ms. Kritika Vijaysingh Rajput** hereby declare that, the project report entitled **ACADEMIX – Online Classroom** submitted by us under the guidance of **Prof. A.B.Patil ,** is our original work.

We have not reproduced any information from any report submitted to Shivaji University, Kolhapur this year or any of the previous years.

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Place:

Date:

Ms. Kritika Vijaysingh Rajput

ACKNOWLEDGEMENT

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We have to give gratitude to **Prof. A.B.Patil, our** project guide for guiding us throughout the project and for their valuable suggestions which help us a lot in the completion of this project. Also, we like to take opportunity thank our all-Computer faculties, administration and library staff for their support throughout the project.

Last but not least we would also thank our friends who have helped us directly and indirectly for successfully completing this project.

Place: Sangli.

Date:

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INTRODUCTION TO PROJECT

1.1] Introduction:

In today's fast-paced world, technology plays a pivotal role in transforming traditional education methods. With the increasing demand for remote learning solutions, the need for a virtual classroom platform has become paramount. "Academix" is designed to meet this demand, offering a dynamic and collaborative online learning experience for both students and teachers. Built using React, Express, and MongoDB, Academix provides a user-friendly interface that facilitates seamless interaction between educators and learners in a virtual environment

1.2] Existing System:

Traditional education systems often rely on physical classrooms, face-to-face interactions, and manual processes. These methods pose limitations in terms of flexibility, accessibility, and scalability. The existing system lacks the adaptability needed for remote learning and efficient collaboration. The drawbacks of the traditional system include:

- Geographical Limitations: Students and teachers are bound by physical locations, making it challenging for remote learning.
- Resource Constraints: Traditional classrooms may face resource limitations, such as limited seating, teaching aids, and classroom materials.
- Time Constraints: Fixed schedules and time constraints hinder the ability to learn at one's own pace.
- Limited Interactivity: Traditional classrooms may lack interactive features for engaging and collaborative learning experiences.

1.3] Need and scope of Computer System:

Need: The need for Academix arises from the growing demand for a flexible and accessible education platform. With the advent of technology, there is a desire for a virtual classroom solution that enables students and teachers to connect, collaborate, and learn from anywhere in the world. The ongoing pandemic has accelerated the adoption of remote learning, emphasizing the need for a robust digital education system.

Scope: Academix aims to provide a comprehensive virtual learning environment with the following features:

- User-Friendly Interface: Intuitive design for easy navigation and interaction.

- Real-Time Collaboration: Live sessions, chat features, and collaborative tools for effective communication.
- Content Sharing: Ability to upload and share educational materials, presentations, and assignments.
- Assessment and Evaluation: Tools for conducting quizzes, tests, and assessments with instant feedback.
- Attendance Tracking: Digital attendance management for better monitoring.
- Scalability: The platform can accommodate a growing number of users and adapt to evolving educational needs.