E-learning Portal

MINI PROJECT – I

SYNOPSIS

Department of Computer Science & Application

Institute of Engineering & Technology

SUBMITTED TO: -   SUBMITTED BY: -

Mandeep Singh   Anshika Gupta(201500112)

(Technical Trainer)   Yashkant Bajpai(201500830)

Acknowledgement

It gives us a great sense of pleasure to present the synopsis of the B.Tech mini project undertaken during B.Tech III Year. This project is going to be an acknowledgement to the inspiration, drive and technical assistance will be contributed to it by many individuals. We owe special debt of gratitude to Mr. Mandeep Singh, Project Mentor , for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal and for his constant support and guidance to our work.

His sincerity, thoroughness and perseverance has been a constant source of inspiration for us. We believe that he will shower us with all his extensively experienced ideas and insightful comments at different stages of the project & also taught us about the latest industry-oriented technologies. We would also like to acknowledge the contribution of all faculty members of the department for their kind guidance and co-operation.

Anshika Gupta(201500112)
Yashkant Bajpai(201500830)

ABSTRACT

E-learning fulfils the thirst of knowledge and offers online content that can be delivered for the learner at anywhere, anytime and any age through a wide range of e-learning solution while compared with traditional learning system. It also provides the rapid access to specific knowledge and information. With the rapid growth of voluminous information sources and the time constraint the learning methodology has changed. Learners obtain knowledge through e-Learning systems rather than manually teaching and learning. This synopsis proposes the E-learning portal with web services oriented frame work. This system   focused around the several features namely Content Management, Content   Protection, Learning Management, Delivery Management, Evaluation management, Access Control, etc., and mainly focused on integrated platform needed for   e-learning and managements.

Contents

INTRODUCTION

Objective : To make quality educational content available virtually, with the platform having quizzes and support modules embedded.

Motivation : The emergence of modern technologies has had profound impacts on the education landscape, with online learning now an integral part of the learning process. The main advantages of online learning are flexibility and accessibility.
E-Learning is an inexpensive, efficient and comfortable way for students to easily access notes and an easier alternative to study for exams.

Problem Statement : With the advent in technology and with the perpetual increase in the strength of the students and the number of departments in the educational institutions, it is laborious to exchange the study materials between the students and the faculties.

SOFTWARE AND HARDWARE REQUIREMENTS

- VS Code Version 1.72
- Git version 2.38.0
- Tomcat 4.1
- Oracle 8i
- Ethernet Adapter
- 8 GB Ram
- Window 11

PROJECT DESCRIPTION

The purpose of this project is to develop a full stack application for e-learning applications and queries using graphical user interface. It allows for flexible data format and deliver of its data so that each analysis application can receive only the information it needs and, in the format, required.
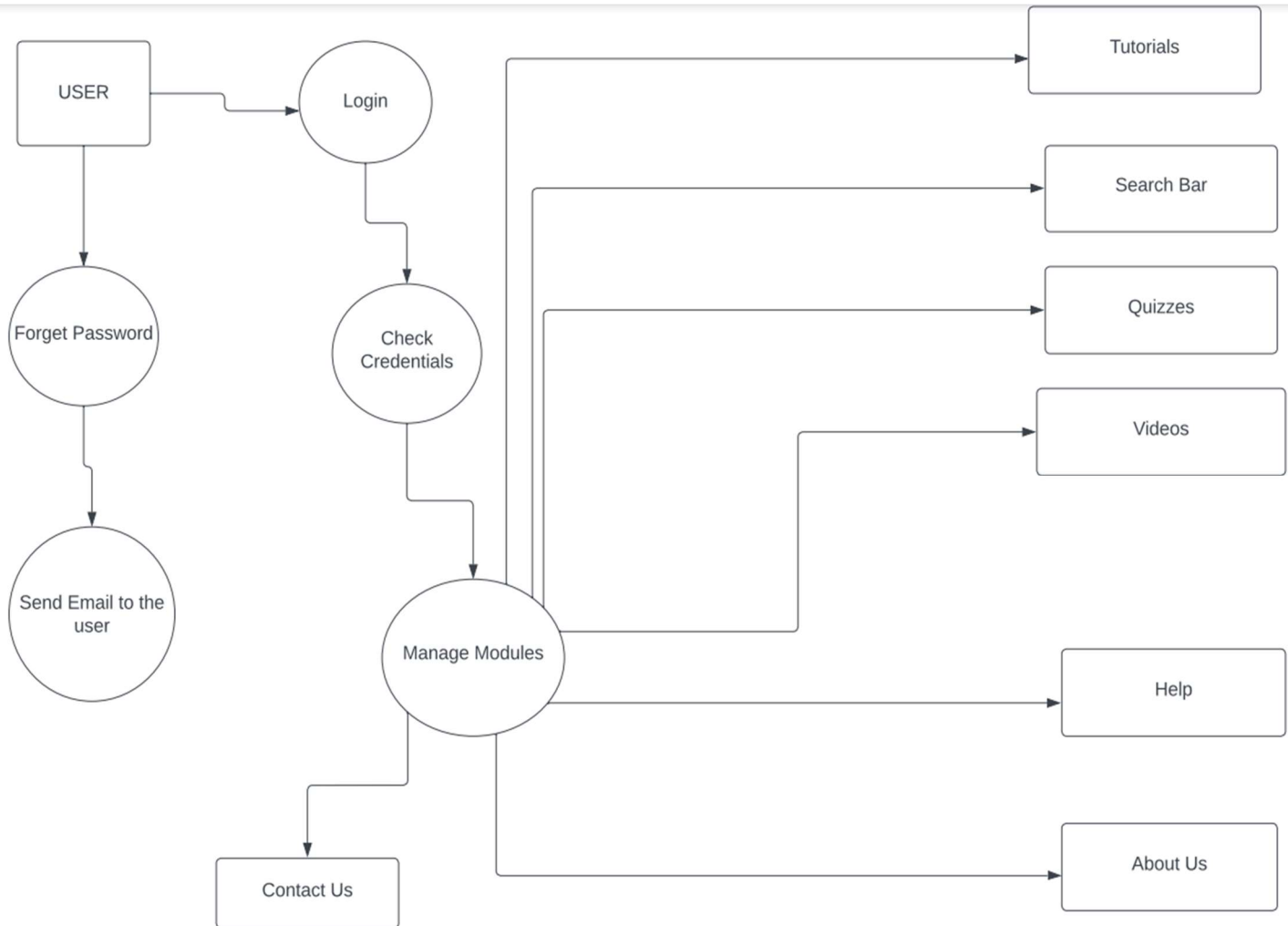
- The user selects from various tutorials available.

- The user can take quizzes on a course.

- New Users will be able to register themselves in the system as students.

- All users will be able to modify their own profile.

- Users will be able to watch tutorial videos.

WORKING

- A user has to register his profile for quizzes.

- User will select what to learn from the variety content available under tutorials dropdown menu.

- User will be able to see the videos of topics of relatively harder bracket.

- Search bar will be provided, So that user can search for their desired content.

- User will be able to contact developer team through Contact us Section.

E-Learning Portal

USER

Login

Forget Password

Check Credentials

Send Email to the user

Manage Modules

Tutorials

Search Bar

Quizzes

Videos

Help

About Us

Contact Us

Data Flow Diagram

IMPLEMENTATION

HTML stands for Hypertext Markup Language, and is most widely used language to write web Pages, HTML defines the structure of the page, and also widely used to format web pages.

HTML is used to make different web pages and for the interlinking of these web pages.

CSS stands for Cascading Style Sheets, CSS describes how HTML elements are to be displayed on screen, paper, or in other media.

CSS is used for designing formatting of the web pages. Some advanced features such as text time delay, metric representations are used.

Java script is a scripting language used to enhance the functionality of the browser. Java script is integrated with HTML and navigator 2.02. Java script facilitates the developer with properties related to document windows, frames, loaded documents and link. The J2EE platform specifies the logical application components within a system and defines the role played in the development process.

Java Script is used for making login page, search bar and login based quizzes.

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  Duane K Fields

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- Core Servlets and JSP – Marty Hall
- Java

  Java2 Complete Reference

  Sun java Documentation

Websites:

- www.java.sun.com
- www.google.com
- www.javawrench.com
- www.javaworld.com
- www.projectdeveloper.com

Faculty Guidelines:

Mr. Mandeep Singh (Technical Trainer in GLA University)

https://github.com/Mandeep-Singh7696

<u>GitHub Repository link:</u>

 https://github.com/Yashkant-Bajpai/E-learning-Portal.git

Project Documents : https://github.com/Yashkant-Bajpai/Mini_Project_Docs.git

Collaborator : https://github.com/anshikagupta5451