

E-learning

MINI PROJECT-I

SYNOPSIS



Department Of Computer Science & Application
Institute of Engineering & Technology

SUBMITTED TO:-

Md Farmanul Haque
(Technical Trainer)

SUBMITTED BY:-

Anjali Kumari(201500095)
Naina Johri(201500422)
Shubhi Agarwal(201500682)

Acknowledgement

It gives us 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.

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Shubhi Agarwal(201500682)

Naina Johri(201500422)

Anjali Kumari (201500095)

Abstract

The main aim of the project is to develop and deploy an e-learning platform that can help students those who wanted to make career in computer science field. This technology helps you to provide the best notes on your subject basis and give extra knowledge along with your course.

It provides the convenient solution to traditional notes making system. We follow a modular approach to learning through this website. This e-learning will automate the existing manual system with the help of ready -made notes, and it will fulfill all the requirements so that students can receive a valuable education. And they can utilize their time up to the maximum. It is a need for time to switch to e-learning.

This e-learning (Tech Hero) website will give the advantage of 24x7 and 365 days a year-round access as compared to Instructor-Led Training, which is one time class that must be scheduled. It is cost effective as the course content is once prepared and can be easily used and modified as per the demand. This type of education is interactive, interesting, and entertaining way of learning and might possible that it will soon replace the paper books in the form of touch screen tablets.

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Introduction

An online learning platform is a webspace or portal for educational content and resources that offers a student everything they need in one place: lectures, resources. It is also an excellent way for the student and the teacher to monitor student progress.

E-Learning is an alternative to a traditional classroom learning experience and is often referred to as “online learning,” “remote learning,” “virtual learning,” “mobile learning,” “digital learning,” or “distance education.”

SOFTWARE AND HARDWARE REQUIREMENTS

- Vs Code Editor
- Google Chrome/Mozilla Firefox/Edge
- Window 10/Window 11
- Ethernet Adapter

PROJECT DESCRIPTION

The purpose of this project is to develop a website for the B.Tech Computer science students who are in search for the good content to learn basic technologies like Data Structures & Algorithms, Web development etc.

This website will provide some videos of the interviews conducted by some companies like Amazon, Google etc. and it will also contain a practice session containing frequently asked questions in placement rounds.

The project is divided into 2 modules-student and administrator. The roles of the modules are as follows:-

Student:

The student selects various courses available on the website. Students will get content related to the course which he/she has opted for from the basic to the advanced level . They will also have an access to the few online courses from various platforms like Udemy, coursera etc. Students can also test their skills from our practice section having questions directly asked in placements rounds.

If any difficulty is faced by any user than they can directly contact to the concerned person.

Administrator:

Publish the content of various courses uploaded earlier and come with the course of new technology which is in demand in the IT sector and provide the new technical questions to the users for their practice.

WORKING:

E-learning can be completed on computer or tablet almost anything that has a stable internet connection so that one can operate necessary website. This allow the student to complete the course anytime, anywhere. Student only need to log on and complete the course by going through the study material.

The main goal of this website is to allow the learner, whether college students or an employee to learn at their own pace. Tech hero is a multipage website that have some paid course that will be coming soon and free accessible material that can help learner to make their career in the field of computer science. Flexibility is the largest benefit of e-learning and this website also promises the flexibility and it is cost effective as well because it provides the free accessible the content.

Tech hero is a website that provide the material of computer science which includes data structure and algorithm but in coming months there will be more paid course on web development, app development, artificial intelligence and many more in coming updates with certificates as well.

IMPLEMENTATION:

HTML:-

Html stands for Hyper Text Markup Language which is used to create the skeleton of the web page. It consist of various tags like formatting tags, semantic tags etc.

CSS:

- CSS stands for Cascading Style Sheets
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- CSS saves a lot of work. It can control the layout of multiple web pages all at once
- External stylesheets are stored in CSS files

Javascript:

- JavaScript is the Programming Language for the Web.
- JavaScript can update and change both HTML and CSS. ●
JavaScript can calculate, manipulate and validate data.

Bootstrap:

- Bootstrap is the most popular CSS Framework for developing responsive and mobile-first websites.
- Bootstrap 5 is the newest version of Bootstrap.

VSCoDe is used to write the html, Css and Javascript code and edit it . It has various extensions which help the user to write the code efficiently like- prettier, code runner etc.

REFERENCES:

Books:

- Web design with HTML,CSS,JavaScript and JQuery Set
- Web design with HTML and CSS

Websites:

- www.geeksforgeeks.com
- www.javatpoint.com
- www.w3schools.com

Faculty Guidelines:

Md Farmanul Haque(Technical Trainer of GLA University)

Github Repository link:

<https://github.com/shubhi1488/E-Learning-TechHero->