

A
Synopsis
on
E-Learning Portal
for fulfillment of the requirements for the degree of
Master of Computer Applications

Submitted By:

Group No: GC11
SUDARSHAN PANDEY- 2100290140137
ARPIT GUPTA- 2100290140037
AJIT KUMAR- 2100290140010



Submitted To:

Department of Computer Applications,
KIET Group of Institutions,
Delhi-NCR, Ghaziabad

March'2023

ABSTRACT

The aim of this project is to provide an online learning system with a smooth and well- organized Graphical User Interface easy to understand for the user form first glance. The project has been planned to be having the view of distributed architecture, with centralized storage of the database.

This portal will enhance the quality of learning. Improve user accessibility and time flexibility to engage learners in the learning process. It offers online content that can be delivered for the learner at anywhere, anytime through a wide range of e-learning solution.

Keywords: Improve user accessibility, learning process, well- organized GUI

TABLE OF CONTENTS

1. Introduction	4
2. Literature Review	6
3. Project / Research Objective	7
4. Research Methodology	7
5. Project / Research Outcome	9
6. Proposed Time Duration	9
References	9

INTRODUCTION

Nowadays students centered learning is increasing day by day. This website will increase quality of distance learning. It provides an online learning system with a smooth and well-organized Graphical User Interface easy to understand for the user from first glance. It improves user-accessibility and time flexibility to engage learners in the learning process.

The learner can login in his account, to enroll the course .Each course has various chapters, and to open each next chapter the learner has to clear the mcq type questions quiz. After reading and passing all the chapters and tests the learner has to pass the final examination, if he/she successful in his/her attempt, a Certificate in PDF format will provided to the learner. The user can also manage his profile on dashboard.

The most exciting thing of this project is that, the learner has the facility of ‘ask questions to expert’, but these experts are hired and registered by only an admin.

SCOPE

- Saves time as a student does not need to travel to the training venue. You can learn at the comfort of your own place.
- Learners can define their own speed of learning instead of following the speed of the whole
- Lessons starts up quickly and also wrapped up in a single learning session.This enables training program to easily roll out within a few weeks or sometimes even days.
- Electronic-learning through certified online courses provides a wide range of courses that caters to the core interests of the student, thus creating a fertile arena for future advancement

RESOURCES

(a -) Hard Requirements

Hardware-	: Processor i5
Clock speed-	: 3.0 GHz
RAM size-	: 4 GB or above
Hard Disk capacity-	: 500 GB or above
Peripheral Devices	

(b -) Software Requirements

Operating System-	: Windows 10
Browser-	: Google chrome or any other
Application software-	: Visual studio code
Technology	: PHP
Server Required-	: Apache
Language Required-	: Html, Css , Php
Documentation-	: Ms Word

LITERATURE REVIEW

A literature review of e-learning portals could cover a range of topics related to the design, development, and effectiveness of these platforms. Some possible themes that could be explored in a literature review of e-learning portals include:

Design and development: A literature review could examine the design and development of e-learning portals, including best practices for user interface design, instructional design, and multimedia development. This could include a discussion of design principles that promote engagement and interactivity, such as gamification and social learning.

Pedagogy and learning outcomes: A literature review could explore the pedagogical approaches and learning outcomes associated with e-learning portals, including research on the effectiveness of different instructional strategies, such as self-directed learning and personalized learning. This could include a discussion of the impact of e-learning portals on student motivation, engagement, and achievement.

Technology and infrastructure: A literature review could examine the technological infrastructure required to support e-learning portals, including considerations for hardware, software, and network infrastructure. This could include a discussion of emerging technologies and trends in e-learning, such as artificial intelligence and adaptive learning.

Assessment and evaluation: A literature review could explore the methods and tools used to assess and evaluate the effectiveness of e-learning portals, including research on the validity and reliability of different assessment methods. This could include a discussion of the use of learning analytics to track student progress and performance.

Student and instructor perspectives: A literature review could examine the perspectives of students and instructors on the use of e-learning portals, including their perceptions of the benefits and challenges of these platforms. This could include a discussion of the impact of e-learning portals on teaching practices and the student learning experience.

Overall, a literature review of e-learning portals could provide a comprehensive overview of the research and best practices related to these platforms, and help to identify areas for further research and development.

PROJECT OBJECTIVE

The research objectives of an e-learning portal could vary depending on the specific needs and goals of the organization or institution providing the e-learning services. Some possible research objectives could be:

- To assess the effectiveness of the e-learning portal in terms of student engagement, satisfaction, and learning outcomes.
- To identify the strengths and weaknesses of the e-learning portal and its features, such as content delivery, interactive features, and assessment tools.
- To evaluate the impact of the e-learning portal on student performance, retention, and overall academic success.
- To understand the factors that influence student adoption and use of the e-learning portal, such as ease of use, perceived usefulness, and perceived ease of use.
- To explore the impact of the e-learning portal on instructors' teaching practices, such as their use of multimedia resources and engagement with students.
- To investigate the potential of the e-learning portal in improving access to education, particularly for students who may face barriers to traditional classroom-based education, such as distance learners or those with disabilities.
- To gather feedback from students, instructors, and administrators on the e-learning portal, including their suggestions for improvement and future development.

Overall, the research objectives of an e-learning portal should be aligned with the goals and mission of the organization or institution providing the e-learning services, and should be designed to provide insights into the effectiveness and potential of the e-learning portal.

RESEARCH METHODOLOGY

Research methodology for an e-learning portal would involve the following steps:

- **Identify the research problem:** The first step is to identify the research problem. This involves understanding the purpose of the e-learning portal, the target audience, and the specific research questions that need to be answered.
- **Develop a research design:** The research design should be developed to address the research questions. This involves deciding on the research method (e.g., qualitative, quantitative, or mixed methods), data collection methods (e.g., surveys, interviews, focus groups, etc.), and data analysis techniques.
- **Collect data:** Once the research design is developed, data collection should begin. This involves collecting data from the target audience, including students, instructors, and administrators.
- **Analyze data:** The collected data should be analyzed using appropriate statistical techniques or qualitative analysis methods, depending on the research design.
- **Draw conclusions:** Based on the results of the data analysis, conclusions should be drawn regarding the effectiveness of the e-learning portal. The conclusions should be presented in a clear and concise manner.

MODULE DESCRIPTION

1. LEARNER MODULE

- In learner module the user will be able to create his account on the portal.
- User will be able to enter his details and he/she can also manage the profile in future.
- After successfully creating the account user will be able to view and enroll for various courses and also apply for the same.
- User can also fill a feedback form if, he/she having problem while accessing the course.
- User can also ask question to expert, if he/she having query in the topic.

2. EXPERT MODULE

- In expert module the registration of expert is done by the administration.
- After successful registration the admin will provide the login details to the expert respectively.
- In Expert dashboard there will be three option-
 - a)Answer to doubts
 - b)Suggestion to Administration
 - c)Manage Profile
- Expert can only view the question, and answer them, they will not be able to see the details of Learner.
- If expert want any changes or any suggestion in the module then he/she can fill the suggestion form.
- And , expert can also be able to manage the profile in future.

3. ADMIN MODULE

- Entire course content is managed by the admin module.
- Admin module will be able to manage the expert details ,these experts are hired and registered by admin.
- Admin will be able to see the list of learners who have registered on the portal, admin can edit and delete the Learner details.
- Suggestions from the expert and feed back from the learners can be viewed by admin.

PROJECT OUTCOME

- The output of this project is that, if any learner registered on the e-learning portal and enrolls in a particular course ,clears all the tests and final exam then the output will be that –
 - the learner will get a certificate and gain knowledge for that course and
 - the expert teacher also get job.
- If any company wants some candidates on a particular skill, the admin can refer these candidates so these candidates can also get the job.

PROPOSED TIME DURATION

Task	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9
Synopsis & PPT	Done								
Learner Module		In this week							
Admin Module			In this week						
Expert Module				In this week					
Database connection					In this week				
UI Design						In this week			
Testing							In this week		
Project Report								In this week	Final Testing

REFERENCES

Sloman, M. 2001, The E-learning Revolution, CIPD, London.