A PROJECT BASED LEARNING REPORT
ON
"QUERY QUEST - EDU"

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SECOND YEAR IN MASTER OF COMPUTER APPLICATION

BY

Yash Rahul Bhande   5239

UNDER THE GUIDANCE OF
Mrs. Vibha Upadhaya

DEPARTMENT OF MASTER OF COMPUTER APPLICATION
TRINITY ACADEMY OF ENGINEERING
Kondhwa Annex, Pune - 411048
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TRINITY ACADEMY OF ENGINEERING
Department of Master of Computer Application

CERTIFICATE

This is certify that the Project Based Learning entitled

"Query Quest - Edu"

submitted by

Yash Rahul Bhande   5239

This is to certify that **Yash Rahul Bhande (5239)** has successfully submitted Project Based Learning entitled " **Query Quest - Edu**" under the guidance of "**Mrs. Vibha Upadhay**" in the Academic Year 2023-24 at Master of Computer Application Department of Trinity Academy of Engineering , under the Savitribai Phule Pune University. This Project Based Learning work is duly completed.

Date:15 /03 /2024
 Place: Pune

(Mrs. Vibha Upadhay)	**(Dr. A.A.Bhusari)**	**(Dr. N. J. Uke)**
PBL Guide	**HOD**	**Principal**

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Yash Rahul Bhande

ABSTRACT

In today's fast-paced digital environment, the importance of accessible and engaging online learning platforms for learning facilitators cannot be underestimated. This content introduces "Query Quest - Edu", an interactive online learning program developed using HTML, CSS, JavaScript and PHP technologies.

'Query Quest - Edu' stands as an educational beacon providing a variety of educational video content covering a wide range of topics including but not limited to coding, business, design, marketing, music, photography, software and science. Thanks to carefully designed playlists and seamless navigation, students have access to a variety of educational programs tailored to their personal interests and learning expectations.

The spirit of "Query Quest - Edu" is based on the goal of encouraging curiosity, encouraging discovery and encouraging users to seek knowledge. By offering a recognized and user-friendly educational ecosystem, "Query Quest - Edu" actively promotes a culture of collaboration and collaboration, thus enabling deep and meaningful learning for students of all backgrounds and skill levels.

The theme of the name "Query Quest - Edu" summarizes the platform's unwavering commitment to supporting curiosity-driven educational adventures. Based on a commitment to continuous improvement and innovation, "Query Quest - Edu" strives to become an online learning community that encourages students to participate in the changing world, learning science that holds the promise of discovery, inspiration and personal growth.

This content provides a general introduction to the overall vision and principles of "Query Quest - Edu" regarding its immense potential to revolutionize online education and help students around the world.

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1 About Project

1.1 Title

The title of our project is **"Query Quest- Edu"**

1.2 Domain

Online Education/E-Learning Platform

1.3 Aim

Query Quest - Edu's overall goal is to disrupt the traditional education system to bridge the gap between students and provide access to quality education in the digital age. Query Quest - Edu is committed to providing free access to knowledge and helping people from diverse backgrounds begin educational transformation by creating a powerful and inclusive online platform.

Query Quest - Edu specifically aims to achieve the following goals:

- Provide Usability: Query Quest - Edu aims to achieve this by providing an easily accessible online platform that can be accessed from anywhere, anytime. complete any educational program. The platform eliminates geographical and financial barriers, allowing international students to access quality educational content.

- Encouraging Participation: The core of Query Quest - Edu's mission is to create a strong and interactive learning community. Through features such as curated playlists, user-generated content, and interactive learning modules, the platform encourages interaction and collaboration between students, fostering a culture of knowledge sharing and peer support.

- Personalized Learning: Query Quest - Edu recognizes that each student is unique and therefore strives to provide personalized learning tailored to individual interests, preferences and standards. Leveraging data-driven insights and adaptive learning algorithms, the platform provides customized recommendations and learning methods to optimize each user's learning experience.

- Supporting Lifelong Learning: Query Quest - Edu is committed to promoting a love of lifelong learning by providing a variety of courses that meet the needs of students of all ages, ages and skill levels. Constantly expanding and constantly updating its content library, the platform aims to arouse curiosity in users, encourage intellectual curiosity and stimulate brain development.

More importantly, Query Quest - Edu wants to be more than just an online education; It aims to be a social change, helping people realize their potential, find their interests and create a future for themselves and future generations. in the future.

1.4 Objective

- Enhanced Accessibility: Query Quest - Edu aims to provide quality education to a wide range of students regardless of location, economic status or physical limitations. By providing an online platform that can be accessed from any internet device, the aim is to make the courses accessible to everyone with an internet connection.

- Encouraging Collaboration: Query Quest - Edu is committed to fostering collaboration by providing interactive learning experiences, collaboration tools, and community forums to enable collaboration with users. The goal is to create a strong learning community where students can connect with their peers, share knowledge, and collaborate on projects.

- Personalized Learning: Query Quest - Edu is committed to providing personalized learning to all users based on their personal interests, preferences and learning styles. By analyzing data and machine learning algorithms, the aim is to provide appropriate recommendations, learning modifications and personalized recommendations to improve the learning experience.

- Promoting lifelong learning: Query Quest - Edu aims to foster a culture of lifelong learning by providing a variety of educational content that meets the needs of students of all ages and skill levels. The goal is to spark curiosity, encourage intellectual development, and encourage a love of learning that goes beyond art.

- Empowering Educators: Query Quest - Edu recognizes the critical role of educators in enhancing learning and aims to empower them with tools, resources and development efforts. The aim is to support teachers in creating an engaging and effective learning experience for students, ultimately improving the quality of learning through the platform.

1.5   Problem Statement

The education system is currently grappling with issues that impede access to quality education and hinder international students' learning. These issues include:

- Limited Access: Many people, especially those living in remote or underserved areas, cannot access quality education due to geographic restrictions, usage restrictions, or financial constraints. This lack of education leads to educational inequality and widens the gap between the privileged and the poor.

- Engagement Issues: Traditional education systems often disable students, leaving them less engaged, less engaged, and less motivated. Exaggerated learning, exaggerated curriculum, and lack of interactive learning can make students disinterested and inhibit the development of positive thinking.

- One-size-fits-all approach: Traditional education systems follow a standard, one-size-fits-all approach. -A one-size-fits-all approach fails to meet the student's diverse learning needs, preferences, and abilities. This integrated approach does not accommodate different learning styles, challenges, and interests, resulting in a learning environment that may not meet the needs of all students.

- Teacher Support: Teachers often struggle to convey knowledge, self-manage, provide timely feedback, and meet students' individual needs. The girl in the older class. Limited resources, high teacher-student ratios, and inadequate infrastructure can inhibit teacher effectiveness and impact student learning.

- There is no way to learn forever: The main focus of technical education is the transfer of knowledge and skills within a limited period of time. Pioneers often overlook the importance of continuous learning and skill development. As a result, people will have difficulty adapting to rapid changes in the market, technological changes and changing social needs, and the work they do will become good and useless.

According to these challenges, there is an urgent need for new solutions that use technology, personal learning and the integration of the learning environment to meet the different needs of students and teachers. Query Quest - Edu strives to solve these problems by providing an accessible, engaging and personalized online learning platform that enables students to realize their potential and pursue lifelong learning.

2 Introduction

2.1 Introduction

In today's rapid development, the educational environment has transformed into online learning platforms. In this transition, Query Quest - Edu serves as a beacon of innovation poised to transform the way we teach. With its user-friendly interface and many educational features, Query Quest - Edu strives to provide free access to knowledge and empower students worldwide. This introduction sets the stage for exploring the evolution of Query Quest - Edu and highlights its commitment to encouraging curiosity, encouraging engagement, and fostering lifelong learning. Join us on our journey to discover the endless possibilities of learning at Query Quest - Edu.

2.2 Project Introduction

Welcome to Query Quest - Edu, where education meets innovation! Query Quest - Edu is not just another online learning platform; It is a wonderful learning center designed to inspire and engage students every day. Query Quest - Edu aims to revolutionize education with its design and interactive features. This brief project provides an overview of Query Quest - Edu's goals, capabilities, and key motivations driving its growth. Query Quest - Edu is committed to helping students realize their potential and succeed in their academic careers by integrating technology, creativity and expertise. Join us on an exciting journey of discovery and growth with Query Quest - Edu.

2.3 Project Scope

Query Quest - Edu aims to create an online learning platform that meets the needs of global students. The working of the program covers many important aspects required to create a good learning ecosystem. First, Query Quest - Edu will provide a wide range of educational content across a variety of disciplines, including careers, business, design, business, music, photography, software and science. This rich library provides students with access to resources tailored to their interests and learning goals. Secondly, the platform will prioritize user experience with a user-friendly interface and intuitive navigation. Interactive content such as quizzes, forums and live meetings will be integrated to stimulate and stimulate learning. Third, Query Quest - Edu will provide personalized learning through customized learning, recommendation algorithms, and bookmarking functions. This personalized program is designed to meet individual learning preferences and adapt to each student's unique needs. Finally, the platform will prioritize accessibility and scalability, ensuring that educational resources are accessible to all users and able to accommodate growth and future expansion. By addressing these basic concepts, Query Quest - Edu aims to help students meet their educational needs and unlock their full potential.

3   Literature Survey

3.1   Literature Survey

Query Quest - Edu's research database provides research, publications and research related to online education, app design, personalized learning and access to education. The purpose of this chapter is to provide an overview of the current state of online education and to identify the main issues, challenges and opportunities related to the development of Query Quest - Edu.

The literature review will examine the following topics:

- Online Learning Platforms: A study of existing online learning platforms and their features, performance and effectiveness of educational support.

- User Experience Design: Learn about user interface design principles, usability, and user experience design in online learning.

- Personalized Learning: Identification of personalized learning strategies, emerging learning technologies and their effects on student motivation, participation and learning.

- Accessibility in Education: Explore accessibility standards, guidelines, and best practices for creating online education for people with disabilities.

Through the results of comprehensive data analysis, Query Quest - Edu aims to gain insight, inform design decisions and identify areas for development, innovation and development to create user-friendly, efficient and inclusive online learning platforms.

3.2   Conclusion

Case studies demonstrate the diversity of online learning platforms and highlight the importance of user-friendly design, personalized learning and accessibility. Insights from existing studies guide the development of Query Quest - Edu, ensuring that user involvement, identity, and engagement are important. Query Quest - Edu aims to use these findings to create a new online education that meets the needs of global students, encouraging motivation, memory and learning, and well-being in a practical and productive environment.

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4 Software Requirements Specification

4.1 Functional Requirement

4.1.1 System Feature:

- User registration and access: Users can access the features and content of the Platform by creating an account.

- Search and search content: Users can search a wide variety of educational content, including topics such as coding, business, design, business, music, photography, software and science.

- Create and manage playlists: Users can create custom playlists of educational videos to organize and save content for future use.

- Interactive Tools: Query Quest - Edu offers interactive tools such as quizzes, forums and live meetings with teachers to enhance learning, collaborate and encourage learning.

- Bookmark and save favorites: Users can bookmark their favorite content for easy access and save it to track their progress across different courses and playlists.

4.2 External Interface Requirement:

4.2.1 Hardware Interface:

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- Device compatibility: Query Quest - Edu can be accessed via compatible devices such as desktops, laptops, tablets and smartphones.

- Internet connection: Users must have a stable Internet connection to access Query Quest - Edu and its features without any problems.

- Dimensions and resolutions: The platform is designed to accommodate a variety of sizes and resolutions, ensuring visibility and usability on different devices.

- Input devices: Query Quest - Edu supports compatible devices such as keyboards, mice, touch screens and digital pens for navigation and interaction.

- Audio output: Users will need audio output capability (such as speakers or headphones) to listen to video lectures, discussions, and other content. multimedia message.

- Camera (optional): Some features (such as Live chat or video conferencing) may require a built-in or other camera to participate.

4.3   System Requirement:

4.3.1   Database Requirement:

- MySQL database management system

4.3.2   Software Requirement:

- Visual Studio Code (VSCode)

- Web browser (e.g., Google Chrome, Mozilla Firefox)

- XAMPP with PHP and MySQL

4.3.3   Hardware Requirement:

For Computers:

- Desktop computer or laptop

- Minimum 4GB RAM

- Processor: Intel Core i3 or equivalent

- Storage: At least 256GB SSD or HDD

- Display: Monitor with a resolution of 1366x768 pixels or higher

- Internet connectivity: Ethernet or Wi-Fi connection

For Phones:

- Smartphone (Android or iOS)

- Minimum 2GB RAM

- Storage: At least 32GB internal storage

- Processor: Qualcomm Snapdragon 600 series or equivalent for Android devices; Apple A10 Fusion or equivalent for iOS devices

- Display: Screen size of at least 5 inches with a resolution of 720x1280 pixels or higher

- Internet connectivity: Wi-Fi or mobile data connection

4.4   Analysis Model Continued

4.4.1   System Life Cycle (Continued)

5 System Study and Analysis

5.1 Existing System

Current online learning systems are often built on fragmented data distributed across multiple platforms and locations. Students often face difficulties accessing general education content. They may need to browse multiple websites, apps, or physical resources to find relevant information, resulting in inconsistent learning. Additionally, the current system may not have interactive, self-selecting, and immediate feedback strategies, which may limit the effectiveness of the learning process. Overall, the current system may not be able to meet the changing needs and expectations of students in terms of accessibility, participation and flexibility in personal learning styles.

5.2 Proposed System

The proposed system, Query Quest - Edu, aims to transform the current online education system by providing simple and comprehensive learning. Query Quest - Edu will provide a central place where users can access different educational content, unlike the resources of the current system. The platform will include a variety of content that will allow students to access resources based on their interests and learning goals. Focusing on user interaction and integration, Query Quest - Edu will provide interactive and practical options to enhance learning for all users. Through personalized recommendations and appropriate design, Query Quest - Edu aims to help students take control of their learning and realize their full potential.

5.3 Feasibility System

Query Quest - Edu's study on the feasibility and effectiveness of implementing the planning process. It takes into account many factors such as work, work and productivity to determine efficiency and sustainability.

- Technical Feasibility: This aspect evaluates whether the proposed process can be developed using existing tools and resources. It evaluates features such as compatibility between software tools, data management, and programming languages needed for development. Additionally, technical feasibility checks the scalability and performance of the system to meet future growth and user needs.

- Economic Feasibility: Economic feasibility analyzes the cost effectiveness of the design and management of the planning process. It takes into account things like construction costs, hardware and software costs, operating costs, and capital gains. Business feasibility also examines the project's return on investment (ROI) and financial value over time.

- Operational Feasibility: Operational Feasibility measures the effectiveness of using the proposed system in an organization or user community. It considers factors such as user acceptance, training needs, operational planning, and potential impact on existing operations and processes. Functionality also measures the ease of maintaining, updating, and supporting a system on an ongoing basis.

This research provides information on the technical, economic and operational aspects of the project, ultimately contributing to the success and long-term sustainability of the project.

6 Data Flow

7 System Design

8   Conclusion

In summary, Query Quest - Edu represents a significant step forward in online education by providing a revolutionary platform designed to enhance the learning of users worldwide. Our main goal throughout the development of Questions Quest - Edu is to create a user-friendly, accessible and engaging environment that allows students to explore, discover and grow.

Focusing on multiple learning, Query Quest - Edu provides users with a comprehensive knowledge base, discipline and discipline by eliminating barriers to accessing quality education. Quest Quest - Edu caters to students' diverse needs and interests by providing personalized learning opportunities, interactive tools, and accessible features to ensure education remains inclusive and accessible for all.

In addition, the research conducted for the Query Quest - Edu project reveals the success and sustainability potential of the project. Through a rigorous analysis of skills, job and business, we identified opportunities for optimization and improvement to ensure Query Quest - Edu evolves according to change needs and learning challenges.

As we look to the future, we think Query Quest - Edu is more than online education. It is a catalyst for change, a beacon of innovation and a driver of quality education. Query Quest - Edu has the potential to transform the way we learn, connect and interact with information by harnessing the power of technology, collaboration and creativity.

Finally, we would like to thank everyone who has helped us, from the dedicated staff who work tirelessly behind the scenes to the users who have provided valuable advice and support and contributed to the development of Quest Quest - Edu. Query Quest - We embark on a journey of discovery, research and development together, using the endless resources provided by Edu.

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