Mini Project Final Report on

TUTOR FINDER

in partial fulfillment for the award of the degree
of Bachelor of Computer/Information Technology Engineering

Submitted By

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Abstract

With the ever growing market of online products, we're trying to build a system using HTML, CSS and JavaScript for frontend, node.js for backend and MySQL as the database. The system we believe will make online tutor searching easier. The project will use functions such as registration, searching, chat to help students view a tutor's background and the subjects they teach before choosing the best fit for their needs. With further improvements, the application can continue to make a significant impact in helping students find the right tutor to achieve academic success.

Keywords: HTML, CSS, JavaScript, Node.js, MySQL

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Chapter 1: INTRODUCTION

1.1 Background

In today's date where other than traditional schooling, assisting through tuition is common, finding a skillful and trustworthy tutor is always a difficult task. Creation of a web application called 'tutor finder' aimed to address the difficulty in finding a tutor for any subject in today's fast-paced world. With the ever growing demands for products to be made available online, and the high cost of teaching institutes, we are trying to build a system that'll help pupils from getting the best tutors they want for their tutoring. Many people in our society want to teach to earn some money, but due to lack of a proper platform to get hired or get tuitions communication channel, and the gap between students and tutors, they cannot find a secure platform. Finding a good tutor without any information is another big problem. The distance between a student and tutor also matters as it determines the cost of transportation. The major aim of the project discussed in this paper is to provide a platform between a student and a tutor. Also, it will help to minimize the unemployment in the country. This project will act as a bridge between the two users.

1.2 Statement of Problem

- During pandemic like Covid, finding tutor or going to institute seemed impossible. But with online tutor searching, finding tutor during those situation would make it easier.
- With all the high cost for a tutor in an institute, we plan to completely eradicate the institute cost from the equation.

1.3 Objective

To build a complete web application which is useful for connecting students with qualified tutors.

1.4 Scope

The scope of this project is very deep in terms of other web Application.
Few of them are:

- This can be used by parents and students to find right tutor.
- Can be used anywhere, any time in mobile or pc.

- This can be used by many peoples who love teaching as a part time job.
- This can be useful for language classes.

1.5 Applications

In the context of Nepal, home tuition and e-tuition web applications can be particularly useful in several sectors to address specific educational needs and challenges. Here are some sectors in Nepal where these educational approaches could be beneficial.

- It provides supplementary support for students in primary and secondary schools.
- Support college and university students in their academic inquiry.
- Help students prepare for competitive entrance exams for higher education.
- Facilitate language learning for individuals and students.
- Assist professionals in preparing for certification exams.

1.6 Hardware and Software Requirement

The list of software that will be used to run this system is listed below:

Any operating system (Windows)
Web Browser
Code Editor (Vs. Code)
PC (Window as Operating System, min RAM 4GB)

Chapter 2: LITERATURE REVIEW

2.1 Warit Taveekarn developed a system that uses location, gender, age, and rating to recommend teachers to students in Thai. The system allows students to find a teacher in their area, and it also provides them with a messaging feature that allows them to chat on the platform. The main focus of the application is to eliminate the intermediary between the teachers and the pupils in offering tuition as different institutes offering the tutoring ask for a large sum to be paid.

2.2 In Karachi, Muhammad Saad also developed a similar system. The application was built only for devices that run on the Android operating system. Just like the previous system, the main goal of this application was to eliminate a third party in the process of a student finding a tutor. In recommending teachers, the application only focuses on the location and the rating of the teachers.

2.3 Tony Chisenga, using HTML, CSS and JavaScript, developed a system that stores information of students and teachers registered through the registration system. The system provides a chat room that stores conversation between teachers and students. It used HTML, CSS for developing User Interface and Java script for making it interactive. It also used Flutter for application development.

2.4 Authors Somefun T.E, Awosope C.O.A and Sika developed a web application using JavaScript, HTML and CSS for frontend, Node.js for backend and Mongo DB for their database that enables users to upload their research works, and view the researches of others and collaborate with peers.

2.5 Authors Raju Miah, Turjaon Akter and MD Jahid built a fully functional web application, using PHP, JavaScript, HTML, CSS, JQuery and MySQL. The website of theirs helps users to register their houses for rent that will help to find the appropriate rental house for those who need it. With facilities provided to the user to upload details of their houses, and to search for the available rooms, it helped us in giving ideas for our project in helping users to find appropriate tutors for them.

CHAPTER 3: METHODOLOGY

3.1 Introduction

Creating the Tutor Finder involved a thoughtful and strategic methodology. In this section, we'll unveil the systematic process we followed to ensure a seamless and effective platform for connecting students with the perfect tutors. From understanding user needs to crafting a user-friendly interface, here's how we delve into the methodical steps that brought the Tutor Finder to life.

3.2 Block Diagram

A block diagram is a visual representation of a system or process that uses simple, labeled blocks to represent components or stages, and lines to indicate the relationships between them. In the context of web development, a block diagram can be used to outline the structure and components of a web project, helping to provide a high-level overview of the system.

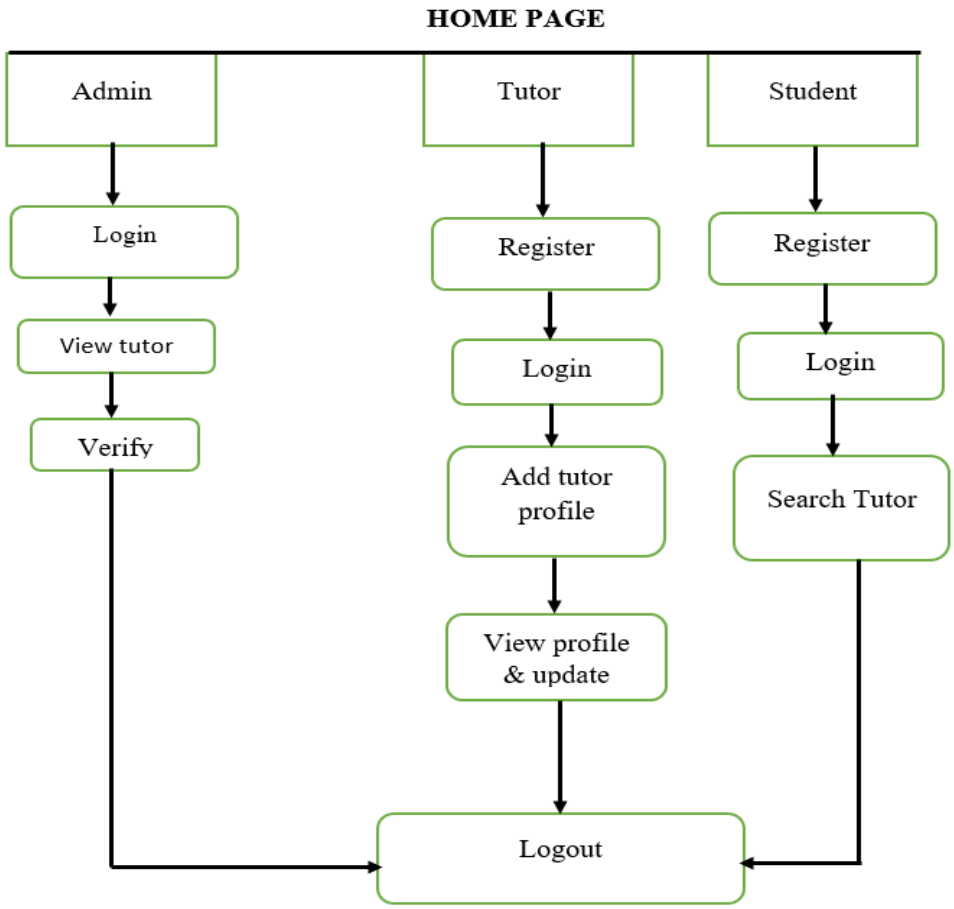


Fig 3.2.1 Block Diagram

3.2.1 Admin

Description: This function within the admin block is dedicated to the thorough verification of tutor profiles submitted to the platform. Admins review and validate the information provided by tutors to ensure accuracy and authenticity.

Responsibilities: Admins verify educational qualifications, professional experience, and any other relevant credentials provided by tutors during the registration process. This involves cross-referencing documents, conducting background checks, and ensuring that tutors meet the platform's standards and guidelines.

This simplified admin block focuses specifically on the crucial aspect of tutor verification, demonstrating how administrators play a key role in maintaining the quality and trustworthiness of the tutor pool on the platform. Depending on the specific requirements of the tutor finder system, additional functions related to user management, dispute resolution, or analytics could be incorporated into a more comprehensive admin block.

3.2.2 Student

User Registration and profile creation: This allows students to provide essential information, preferences, and academic details.

Search for tutors: It includes a search feature for tutors and courses equipped with filters to enhance a customized search experience.

Logout: This allows students to securely log out of the platform for user account management.

3.2.3 Tutor

Profile Creation: Tutors start by creating profiles with details such as qualifications, expertise, teaching style, and availability.

Profile Verification: Tutors submit their qualifications for verification by administrators to ensure accuracy and reliability. After verification they can also update their profile details.

Logout: Allows tutors to securely log out of the platform.

3.3 ER Diagram

An Entity-Relationship(ER) diagram is a visual representation of the relationships among entities within a database.it is modeling technique used in database design to illustrate the structure of a database and the relationships between different entities. Here is the ER diagram of our project.

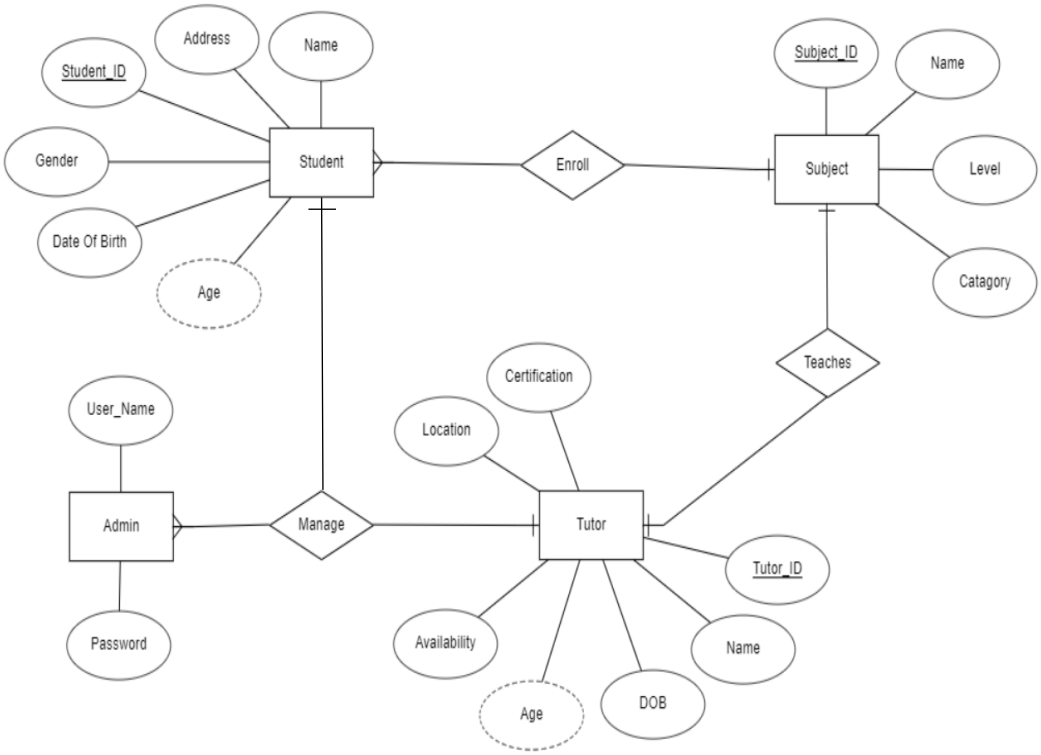
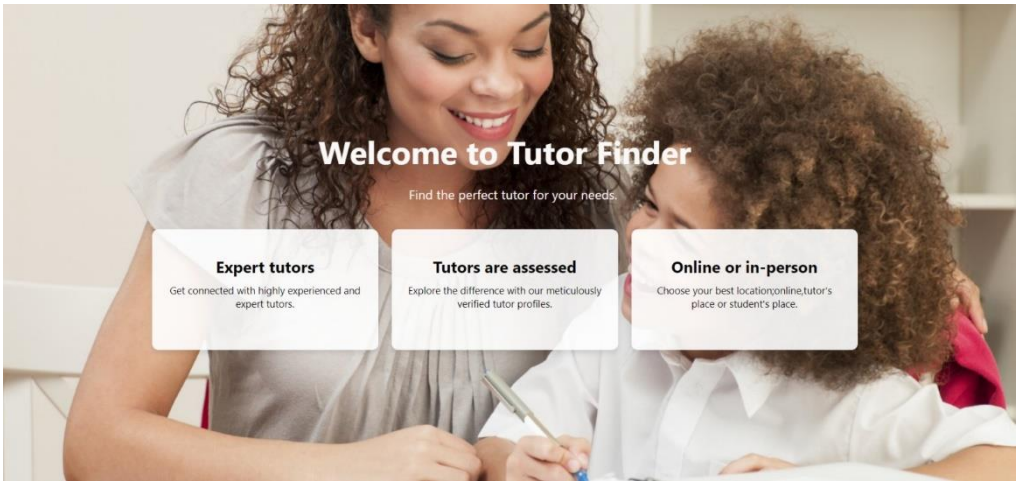


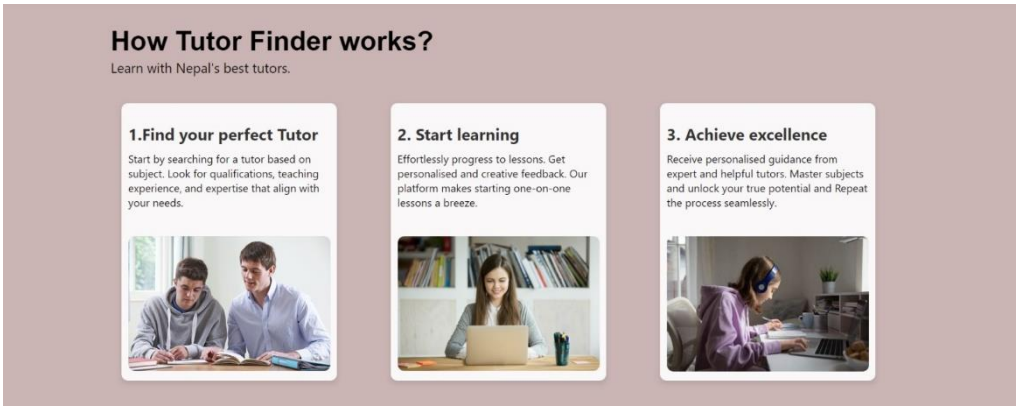
Fig 3.3.1 ER Diagram

Chapter 4: Result And Analysis

4.1 Results and Analysis

It can be stated that the UI design has been successfully completed, ensuring a user-friendly and visually appealing interface. Additionally, the search functionality for finding tutors has been implemented, allowing users to easily locate tutors based on their preferences. Furthermore, the database connection has been established, enabling efficient storage and retrieval of data, enhancing the overall performance of the application. Here are some screenshots of the outcomes:






Home
About
services
contact
signin
Login
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Activate Windows
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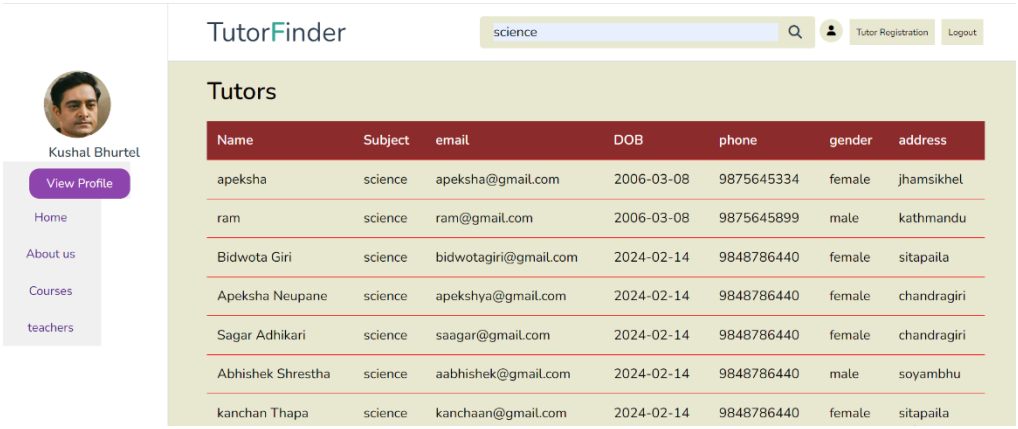
TutorFinder
science
Tutor Registration
Logout
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View Profile
Home
About us
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teachers
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Name Subject email DOB phone gender address
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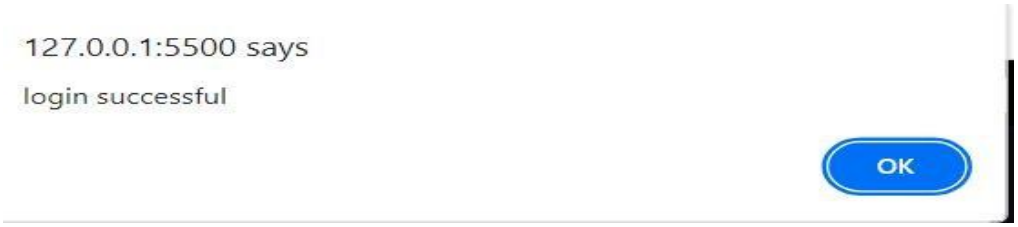
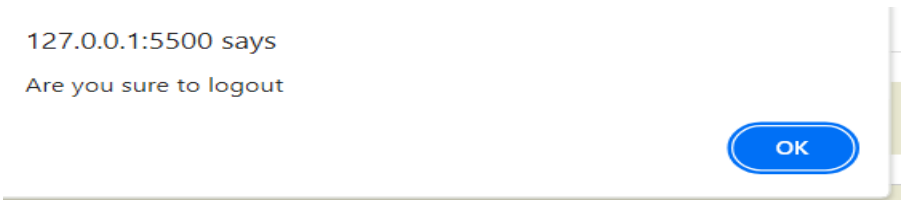
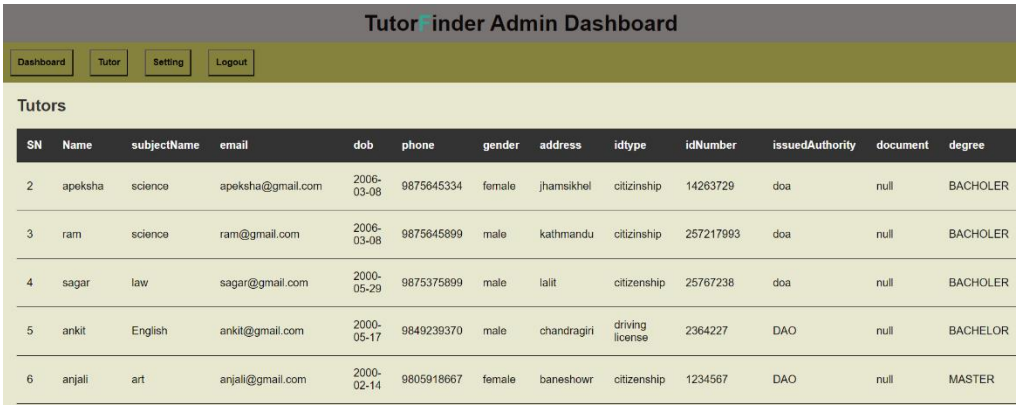

127.0.0.1:5500 says
login successful
OK


127.0.0.1:5500 says
Are you sure to logout
OK



SN	Name	subjectName	email	dob	phone	gender	address	idtype	idNumber	issuedAuthority	document	degree
2	apeksha	science	apeksha@gmail.com	2006-03-08	9875645334	female	jhamsikhel	citizinship	14263729	doa	null	BACHOLER
3	ram	science	ram@gmail.com	2006-03-08	9875645899	male	kathmandu	citizinship	257217993	doa	null	BACHOLER
4	sagar	law	sagar@gmail.com	2000-05-29	9875375899	male	lalit	citizenship	25767238	doa	null	BACHOLER
5	ankit	English	ankit@gmail.com	2000-05-17	9849239370	male	chandragiri	driving license	2364227	DAO	null	BACHELOR
6	anjali	art	anjali@gmail.com	2000-02-14	9805918667	female	baneshowr	citizenship	1234567	DAO	null	MASTER

During the analysis phase, we carefully looked at the user interface design to ensure it was easy to understand and navigate. We checked if logging in was simple. We also examined how the app connected to the database to ensure it was fast and reliable, allowing users to access information without delays. Additionally, we tested the search function to see if it quickly found tutors based on user preferences. Lastly, we reviewed how the admin verified files uploaded to the platform, ensuring only trustworthy content was available for users to access.

Chapter 5: Future Enhancement and Conclusion

5.1 Future Enhancement

We have exciting plans to enhance our tutor finder even further. Some future enhancements include:

- Recommend tutors based on your needs.
- Show when tutors are available right away.
- Add fun learning tools.
- Let you rate tutors and give feedback.
- Create a mobile app for easy access.
- A payment method can be added.
- Can add new features as and when require.

5.2 Conclusion

In conclusion, our tutor finder is all about speed and simplicity. We pride ourselves on connecting students with tutors quickly and efficiently, so learning can start right away. By keeping costs low and the process hassle-free, we make finding the right tutor easy. This not only benefits students by providing instant help but also empowers tutors to share their knowledge easily. Together, we're making learning accessible and enjoyable for all.

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