**Software Requirement Specification**

*for*

**Online Tutor Finder**

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## Project Definition

This web application is for students and teachers.

**For Students:** Those students who can’t find better tutor in nearby places, they can search for best tutor in our web application. Here they can find tutor as per there requirements like the subject, the timing they are fine with, and can also check the qualifications of tutor and the cost.

**For Teachers:** The teachers who are interested can make their account on this web application and they have to specify their qualifications, the timing they are available at, the subject they want to teach and their price they would take. Then as soon as any student books them, teaches will be notified.

## Limitations of current system

In current system if we have to get a tutor, we have to find tutors by different sources we have and there are many possibilities like the tutor is not good enough, student can’t match according to the timing with teacher, sometimes student can’t find a teacher for specific subject they want to learn etc are the many issues that student may face. For teachers, there are good teachers but they didn’t get recognized and due to which they can’t get job although they have good teaching skills. So all these are the problems in current system.

## Proposed System

Our system will overcome all the limitations of the current system. Our project will provide an online platform for both students to find good tutor and for teacher to get a better employment opportunity.

## Objective

The main objective behind this project is to create a platform for students to find a good tutor according to their needs and can get better education. And for teachers to get better job opportunity.

## Scope

* Teacher will be able to enter their qualifications and may get more students for their teaching.
* Students will be able to get the appropriate teachers for the required subjects for their studies.

**Functional Requirements: -**

**R1 Register:**

**R1.1 Tutor**

**Description:** The Tutor will register themselves to the site via giving the information about them so they can access the services of the site.

**Pre-condition:** The user is coming to site first time

**Input:** Username, Email, Password

**Processing:** confirms the password given by the user.

**Output:** The User is registered to the website and personal details will be asked.

**Post-Condition:** User redirected to the Personal Details page.

**R1.1.1 Personal Details**

**Description :** The tutor will have to register their personal info

**Pre-condition :** The user is coming for first time.

**Input:** First and Last Name, Phone Number, Address, Gender etc.

**Output:** The user is registered and the personal details will be also entered

**Post-Condition:** User redirected to the Home Page and is registered now

**R1.2 Student**

**Description:** The Tutor will register themselves to the site via giving the information about them so they can access the services of the site.

**Pre-condition:** The user is coming to site first time

**Input:** Username, Email, Password and other information

**Processing:** confirms the password given by the user.

**Output:** The User is registered to the website.

**Post-Condition:** User redirected to the Personal Details page

**R1.2.1 Personal Details**

**Description:** The student will have to register their personal info

**Pre-condition:** The user is coming for first time.

**Input:** First and Last Name, Phone Number, Address, Gender etc.

**Output:** The user is registered and the personal details will be also entered

**Post-Condition:** User redirected to the Home Page and is registered now

**R2 Login:**

**Description:** The User has registered and now if the user enters the login details it will give access to their respective account

**Pre-condition:** The user must be registered

**Input:** Username and Password

**Processing:** Checks whether username and password is correct or not

**Output:** If valid, then user is directed to home page or else will display invalid password or username and have to re-enter it.

**Post-Condition:** User redirected to Home page.

**R2.1 Forgot Password**

**Description:** User clicks on Forget Password link/button an verification male will be send to the user’s entered email address and a fter verification user will able to change password

**Pre-Condition:** User must be registered

**Input:** Enter email address

**processing:** Checks whether user is registered in system

**Output:** email to for verification and changing password tab

**Post-Condition:** New password is updated to Database

**R2.1.1 Reset Password:-**

**Pre-Condition:** User must be registered and must remember the old password

**Input:** Enter new password and Confirm the new password

**processing:** Checks the new password and the confirm password is same

**Output:** Message-Password Changed Successfully

**Post-Condition:** New password is updated to Database

**Tutor :-**

**R3 Edit Profile/View Profile:**

**Description:** In this can edit or view their profile.

**Pre-condition:** Tutor must be logged In.

**Input:** if edit then the new data of the field teacher wants to edit and if tutor wants to enter details like

1 Qualification

2 Subjects tutor can teach

3 Experience

4 Institution Name

5 Profile Pic

**Output:** profile info, if edited then updated profile info.

**Post-condition:** User will be redirected to the view profile page.

**R4 View Students Enrolled**

**Description:** Tutor can view the number of Students who are enrolled to his classes.

**Pre-Condition:** The tutor must be Logged in.

**Processing:** Opens the number of students enrolled for the courses or subjects

**Output:** Page where Students enroll details are present.

**Post-Condition:** User will redirect to Student enrol page

**Students:-**

**R5 Searching for Tutor:**

**Description:** In this student will give their suitable timings, subject, class or grade etc info for searching the Tutor.

**Pre-condition:** Student must be registered to the site and must be logged in to site.

**Input:** Subjects, Class details for searching. And also fee range, Timings filter is also available for the searching.

**Output:** The List of Tutors whose details match with the data input by the student.

**Post-condition:** User redirected to the list of Tutors

**R6 Feedback/Rating:**

**Description:** In this student can give their feedback and ratings to teachers and teachers can see what feedbacks are received from students.

**Pre-condition:** student or teacher must be logged In.

**Input:** Students have to provide their feedback and ratings for teacher.

**Output:** Teacher will receive all the feedbacks and ratings of the students.

**Post-condition:** User will be redirected to the feedback page.

**R7 Edit Profile/View Profile:**

**Description:** In this can edit or view their profile.

**Pre-condition:** Student must be logged In.

**Input:** if edit then the new data of the field student wants to edit and if student wants to enter details like

1 The distance he wants to travel from his residence.

2 The subjects students wishes to learn.

3 Fees Range he wants.

4 Profile Pic

5 Class

**Output:** profile info, if edited then updated profile info.

**Post-condition:** User will be redirected to the view profile page.

**Admin:-**

**R8 Admin Register/Login**

**Description:** The Admin will register themselves to the site via giving the information about them so they can access the services of the site and can get the admin oriented services.

**Pre-condition:** The user is coming to site first time

**Input:** Username, Email, Password

**Processing:** confirms the password given by the user.

**Output:** The User is registered to the website and personal details will be asked.

**Post-Condition:** User redirected to the

**R9 Add/Remove the Tutor or Student:**

**Description:** For adding new user to the Site and removing the user from the site

**Input:** The details of the user which is to be added or removed

**Processing:** Searching of the data entered by Admin in the Databse who he/she wants to remove Or Adding the data of new user to Database.

**Output:** Message – (If Remove) The User Removed Successfully

Message – (If Add) The User Added Successfully

**Post Condition:** The data is added or removed from the Database.

**R10 View Details of User (Tutor/Students)**

**Description:** This is the service given to the Admin where he can see the details like the user joined with site and payment details etc.

**Pre-Condition :** Admin must be logged in.

**Output:** Details like users joining details, No. of user joined to the site, and payment details

**Post Condition:** Admin is redirected to the Detail Page

**R11 Edit Profile of the User**

**Description:** If the user gives permission the admin can change the details of the User.

**Pre-Condition:** Admin must be logged in.

**Input:** The Details to be changed

**Output:** The profile is edited successfully

**Post-Condition:** The admin directed to edit profiles page

**R12 Payment**

**Description:** If the tutor is booked the 5-10% brokerage will be taken by the site and the tutor will be notified.

**Input:** The payment details.

**Processing:** The payment details is verified.

**Output:** Payment Done Successfully and Tutor notified.

**R13 Logout:**

**Description:** If the student/tutor is logged in, He/she can logout with it.

**Pre-condition:** student or teacher must be logged In.

**Input:** click the logout button

**Output:** User will be logged out.

**Post-condition:** User will be redirected to the Home page.

## Non-functional requirements

**R1 Easy To Use**

Description: Any user just needs a desktop web browser to access the website.

**R2 Security**

Description: The user data is safe from the malware attacks and Unauthorized access to the system.

**R3 No changes In User Data**

Description: The user data will not be changed by any of the admin without any permission of the user.

**R4 Responsive**

Description : The Website will be responsive so user can log in through their mobile devices ,PC, Laptops etc

## Software Specifications

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| --- | --- |
| **Language:** | HTML, CSS: For designing web pages  JavaScript: For Backend and some Frontend implementations**.** ​ |
| **Technologies:** | **>**MERN Stack​  > MongoDB as Database |

> ExpressJS as backend web application framework

> ReactJS & NodeJS will be used for Frontend & Backend implementations.