

VIRTUAL TEST HUB

PROJECT REPORT

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Of

Bachelor of Technology

Under the guidance of

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
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BASAR**

CERTIFICATE

This is to certify that the Project Report entitled '**VIRTUAL TEST HUB**' submitted by **Arun Kumar - B201031, Vamshi Krishna - B200182, Vaseem Akram - B200927.** Department of Computer Science, Rajiv Gandhi University Of Knowledge Technologies, Basar, for partial fulfillment of the requirements for the degree of Bachelor of Technology in Computer Science and Engineering; is a bonafide record of the work and investigations carried out by them under my supervision and guidance

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES,
BASAR**

DECLARATION

We hereby declare that the work which is being presented in this project entitled, "**VIRTUAL TEST HUB**" submitted to **RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES, BASAR** in the partial fulfillment of the requirements to the award of the degree of **BACHELOR OF TECHNOLOGY** in **COMPUTER SCIENCE AND ENGINEERING**, is an authentic record of our own work carried out under the supervision of "**Ms.Latha**", **Assistant Professor in Department of Computer Science And Engineering, RGUKT, Basar**. The matter embodied in this project report has not been submitted by us for the award of any other degree.

Place: Basar

Date: 07/12/2024

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PROJECT STUDENTS :

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Abstract

The Virtual Test Hub (VTH) is a comprehensive virtual test platform designed to address the challenges of traditional and existing digital assessment systems. With features like timer-based tests, question randomization, and multi-level quiz support, VTH ensures a secure and efficient test experience. It incorporates an intuitive user interface, a resource repository for preparation materials, and tools for performance tracking to enhance both teaching and learning outcomes. By leveraging advanced technologies such as PHP, MySQL, and the MERN stack, the platform guarantees scalability and reliability under high user loads. VTH promotes eco-friendly practices by reducing paper usage and streamlining test workflows, saving time and effort for institutions. Additionally, it ensures fairness through anti-cheating mechanisms and provides real-time feedback for users. With its robust architecture and potential for future innovations, the Virtual Test Hub serves as a scalable and sustainable solution to meet the evolving needs of modern education.

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1. INTRODUCTION

1.1 Project Objective

The main objective of the Virtual Test Hub (VTH) is to create a reliable, efficient, and secure virtual test platform that meets the evolving demands of modern education. The system aims to simplify test management by enabling educators to create, administer, and evaluate tests seamlessly while saving time and effort. To ensure fairness, VTH incorporates advanced features such as question randomization and anti-cheating mechanisms, maintaining the integrity of assessments. It prioritizes user experience through an intuitive interface, offering tools like dark mode, progress indicators, and immediate feedback for enhanced engagement. The platform is designed to support scalability, accommodating large-scale usage without performance issues, and promotes eco-friendly practices by minimizing paper usage through fully digital workflows.

Additionally, VTH provides a comprehensive repository of study materials, including books and articles, to help students prepare effectively while tracking their progress and performance through personalized profiles. It caters to various educational levels, including Intermediate, Undergraduate, and Postgraduate, with features like leaderboards and reminders to keep users informed and motivated. The platform ensures data security and accessibility across multiple devices, fostering inclusivity and modernizing education. With a focus on future readiness, VTH builds a scalable architecture that can integrate advanced features like AI-driven proctoring and gamification, making it a forward-thinking solution for the digital transformation of education systems.

1.2 Problem Statement

In the digital era, traditional paper-based test are becoming increasingly impractical due to inefficiencies, environmental concerns, and limited scalability. Current virtual test systems often fail to meet the needs of modern education, suffering from issues. These challenges highlight the urgent need for a robust, user-friendly, and secure platform that ensures seamless virtual test management while meeting the expectations of students and educators. The Virtual Test Hub aims to bridge this gap and provide a comprehensive solution.

1.3 Aims and Objectives

- **Streamlined Online Tests:** VTH offers a comprehensive solution for creating, conducting, and managing virtual tests. It caters to diverse educational levels
- **Enhanced Resource learning:** The platform includes a repository of study materials such as books, articles, and other resources. Students can access, download, and save materials to improve their exam preparation.
- **Fair and Secure Examinations:** With features like question randomization, timer-based tests, and anti-cheating mechanisms, VTH ensures test fairness and prevents malpractice. It also protects user data with robust security measures.
- **Scalable and Accessible Platform:** Designed for institutions of all sizes, VTH handles high user traffic seamlessly. The platform is accessible across multiple devices,
- **Future-Ready Infrastructure:** VTH is built with a scalable architecture that supports potential upgrades

1.4 Scope of the Project

The Virtual Test Hub (VTH) is designed to revolutionize virtual tests by providing a reliable, efficient, and scalable platform for educational institutions. It streamlines the process of creating, managing, and conducting tests for various educational levels, including Intermediate, UG, and PG. The platform offers advanced features like question randomization, timer-based tests, and real-time feedback to ensure fairness and enhance the assessment process.

VTH includes a centralized repository of study materials, enabling students to access and prepare effectively with resources such as books and articles. Its scalable architecture ensures seamless performance under high user loads, making it suitable for institutions of all sizes. The platform is accessible on multiple devices, promoting inclusivity and ease of use for both educators and students.

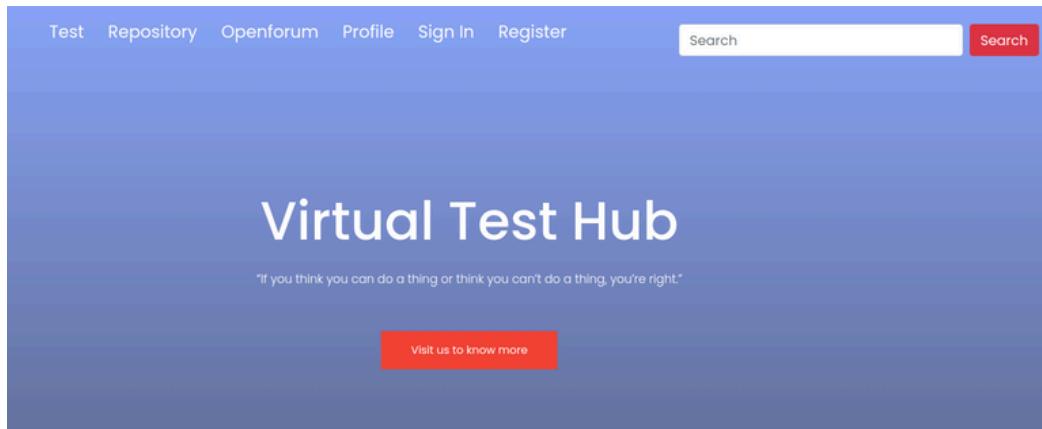
With robust security measures, VTH protects user data and prevents test malpractice through anti-cheating mechanisms. The project supports eco-friendly practices by eliminating paper usage and digitizing workflows. Additionally, it is built to accommodate future enhancements like AI-driven proctoring, gamification, and mobile app integration, ensuring it remains a forward-thinking solution for evolving educational needs.

2. REVIEW OF LITERATURE

In Virtual Test HUb the user can be the one who search for requirements.

There are the below shown (Figure 1) features are there for user

- Sign In with valid credentials.
- Register if not yet.
- Taking the test virtually.
- See User Profile
- Access Repositories & Post feedback if any.



Tests we offer

"Your best is enough; give it and trust the process."

Intermediate

Builds foundational knowledge for competitive exams like JEE Main/Advanced, NEET (for certain overlap in Physics and Chemistry), and state-level entrance exams like EAMCET, MHT-CET, etc.

Graduation

Essential part of higher education and serve as a gateway for students pursuing specialized careers. These exams are typically conducted in colleges and universities affiliated with various central, state, or private institutions.

Post Graduation

Are pivotal for students seeking to advance their academic qualifications, specialize in their fields, or improve career prospects. These exams vary by discipline and institution and include entrance exams, semester exams, and final assessments for master's programs.

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Figure 1

2.1 Sign In with valid credentials.

The Sign-In Area in the Virtual Test Hub allows new users to create an account by providing a unique username and password. This functionality ensures secure registration, enabling users to access personalized features such as exams, progress tracking, and the resource repository.

Figure 2

- Users input a unique username and a secure password in the registration form.
- The system validates the entered credentials, ensuring the username is unique and the password meets security criteria (e.g., length, complexity).
- Upon successful validation,⁴ the account is created, and the user is notified of successful registration, allowing them to log in.

2.2 User Registration

The Register Field in the Virtual Test Hub enables new users to sign up by providing necessary details like username and password. This feature ensures secure registration with proper validation to prevent duplicate accounts and maintain user data integrity. Successful registration grants users access to their personalized dashboards and platform features.

Student Registration Form

First Name :	<input type="text" value="Enter Your First Name"/>
Last Name :	<input type="text" value="Enter Your Last Name"/>
email :	<input type="text" value="Enter Your email"/>
Password :	<input type="text" value="Enter Your Password"/>
Re-Enter Password :	<input type="text" value="Re-Enter Your Password"/>
Date Of Birth :	<input type="text" value="dd/mm/yyyy"/> <input type="button" value=""/>
Mobile Number :	<input type="text" value="Enter Your Mobile Number"/>
Gender :	<input type="radio"/> Male <input type="radio"/> Female <input type="radio"/> others
Address :	<input type="text" value="Enter Your Address"/>
State :	<input type="text" value="Enter Your state"/>
City :	<input type="text" value="Enter Your city"/>
Country :	<input type="text" value="Enter Your Country"/>
pincode :	<input type="text" value="Enter Your pincode"/>
Course Applied For :	<input type="radio"/> BSC <input type="radio"/> B.COM <input type="radio"/> BA <input type="radio"/> BCA <input type="radio"/> BA <input type="radio"/> others
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Figure 3

- The user enters required details such as username, password, and possibly additional information like phone e.t.c.
- The system verifies the details to ensure the username is unique, the password meets security requirements, and other fields are correctly filled.
- Once validation is complete, the system creates the account, notifies the user of successful registration, and allows them to log in.

2.3 Take Test Virtually

The Virtual Test Hub offers a seamless and efficient process for taking tests online.

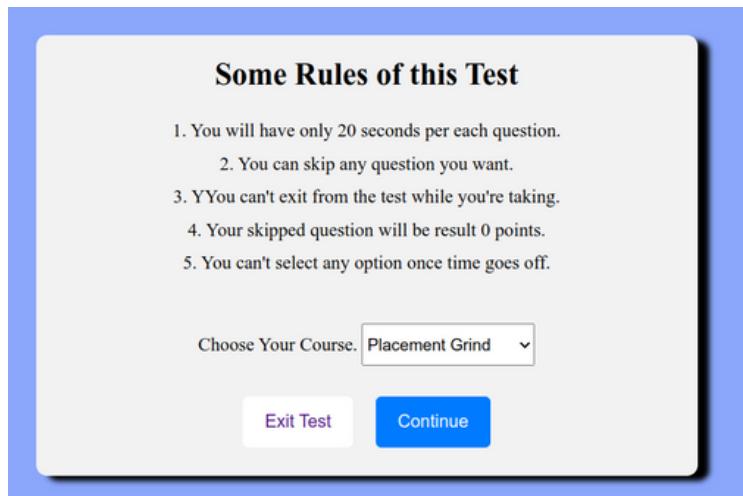


Figure 4

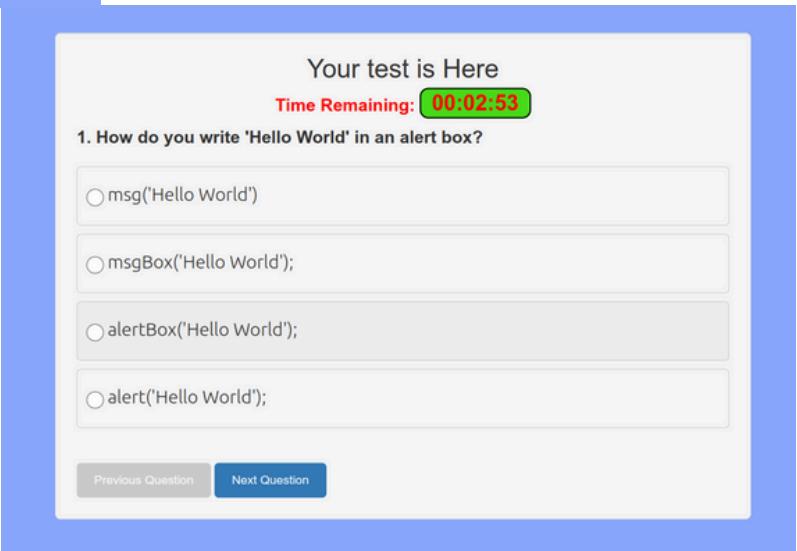


Figure 5

- The user can continue with the test until the time exceeds. And finally the result will be displayed.

2.4 See User Profile

- The Profile Section is a personalized area where users can manage their account details and track their progress. It displays essential information such as the user's name, role (student or educator), and past activities, including completed tests, scores, and performance analytics.
- For students, the profile serves as a dashboard to access upcoming tests and feedback, while educators can monitor test creation and performance insights. This section provides a comprehensive and user-friendly overview, enhancing the platform's usability and engagement.

John Wick(you)
Software Engineer

RANKINGS - Global Rank : 1
TOTAL TESTS TAKEN : 28
PASS : 28
RATING LEVEL: MASTER
FAIL : 0

About

User Id	John_W
Name	John_Wick
Email	johnwick@gmail.com
Phone	9999999999
Profession	Software Engineer
Experience	Expert
Hourly Rate	10\$/hr
Total Projects	230
English Level	2 years
Availability	past 6 months
Your Bio	Your detail description

WORK LINK:
Leetcode Account
GitHub Account
LinkedIn Account

SKILLS:
Data Structures
Full Stack
WordPress
Communication
PHP, .Net

Figure 6

2.5 Access Repositories

- The Repository Section in the Virtual Test Hub serves as a centralized library of study materials and resources.
- It provides access to books, articles, and reference materials categorized by subject and difficulty level to aid in exam preparation.
- Users can download, bookmark, or save resources for offline use, enhancing their learning experience.

First Name	Last Name	File	Time
Anur	Kumar	JS.pdf	Today
Akram	Sahoo	DSA.pdf	Today
Vamshi	Krishna	Chemistry.pdf	Yesterday
Arjun	Reddy	History.pdf	2 days ago

Figure 7

2.6 Post Feedback

Comments by our users :

The screenshot displays the 'Comments by our users' section and an 'Upload a POST' interface. The comments are presented in a list format with user avatars, names, dates, and messages. The 'Upload a POST' section features a message input field, a large black placeholder area, and a yellow 'Upload' button.

- Jhon Doe** - 20 October, 2024
Positive: The design is intuitive and user-friendly, making navigation straightforward even for first-time users. Suggestion: Consider adding customizable dashboards to give testers quick access to their most-used tools and test metrics.
- Rob Simpson** - 21 October, 2024
The Virtual Test Hub (VTH) offers a user-friendly interface and robust testing features, making it a valuable tool for diverse testing needs. Real-time reporting and collaboration tools stand out, enhancing team efficiency and decision-making.
- Elon Musk** - 11 November, 2024
However, more customization options for dashboards and visualizations could further improve user experience. Expanding AI-driven insights and integration capabilities would position it as a cutting-edge solution.
- Donald J Trump** - 25 December, 2024
The Virtual Test Hub is a well-rounded platform with robust features that address modern testing challenges. With a few refinements in usability, analytics, and integration capabilities, it could become an industry leader.

Figure 8

- The Open Forum Section in the Virtual Test Hub allows users to share feedback, suggestions, and queries about the platform or specific tests.
- It fosters communication between students and educators, enabling discussions and collaborative problem-solving.
- This interactive space enhances user engagement and helps improve the platform based on user input.

3. CODE IMPLEMENTATION

3.1 home.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Virtual Test Hub</title>
    <link rel="stylesheet" href="style_home.css">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500;600;700&family=Quicksand:wght@600&family=Roboto:ital,wght@0,400;1,700&display=swap" rel="stylesheet">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-alpha1/dist/css/bootstrap.min.css">
</head>

<body>
    <section class="header">
        <nav>
            <a href="index.html"></a>
            <div class="nav-links" id="navLinks">
                <i class="fa fa-times" aria-hidden="true" onclick="hideMenu()"></i>
                <ul>
                    <li><a href=".e-exam.html" target="_blank">Test</a></li>
                    <li><a href=".e-repository.html">Repository</a></li>
                    <li><a href=".comment.html">Openforum</a></li>
                    <li><a href=".mywall.html">Profile</a></li>
                    <li><a href=".signin.html">Sign In</a></li>
                    <li><a href=".register.html">Register</a></li>
                </ul>
            </div>
            <form class="d-flex"> <input class="form-control mr-2" type="search" placeholder="Search" aria-label="Search"> <button type="button" class="btn btn-danger">Search</button> </form>
            <i class="fa fa-bars" aria-hidden="true" onclick="showMenu()"></i>
        </nav>
        <div class="text-box">
            <h1>Virtual Test Hub</h1>
            <p>"If you think you can do a thing or think you can't do a thing, you're right."</p>
            <a href="#" class="hero-btn">Visit us to know more</a>
        </div>
    </section>

    <!--
    <section class="course">
        <h1>Tests we offer</h1>
        <p>"Your best is enough; give it and trust the process."</p>
        <div class="row">
            <div class="course-col">
                <h3>Intermediate</h3>
                <p>Builds foundational knowledge for competitive exams like JEE Main/Advanced, NEET (for certain Chemistry), and state-level entrance exams like EAMCET, MHT-CET, etc.</p>
            </div>
            <div class="course-col">
                <h3>Graduation</h3>
                <p>Essential part of higher education and serve as a gateway for students pursuing specialized courses typically conducted in colleges and universities affiliated with various central, state, or private institutions.</p>
            </div>
            <div class="course-col">
                <h3>Post Graduation</h3>
                <p>Are pivotal for students seeking to advance their academic qualifications, specialize in their fields of interest, and prepare for professional careers. These exams vary by discipline and institution and include entrance exams, semester examinations, and assessments for master's programs.</p>
            </div>
        </div>
    </section>
    -->
</body>
<footer>
    <a href="#">About Us</a>

```

```

        <a href="#">Contact Us</a>
        <a href="#">Address</a>
        <a href="#">Privacy Policy</a>
        <a href="#">&copy;2024 | VTH</a>
    </footer>

    <script>
        var navLinks = document.getElementById("navLinks");
        function showMenu() {
            navLinks.style.right = "0";
        }
        function hideMenu() {
            navLinks.style.right = "-200px";
        }
    </script>
</body>

</html>

```

3.2 style_home.css

```

* {
    margin: 0;
    padding: 0;
    font-family: 'Poppins', sans-serif;
}

.d-flex {
    margin-left: 120px;
}

.header {
    min-height: 100vh;
    width: 100%;
    background-image: linear-gradient(rgba(89, 130, 251, 0.7), rgba(21, 32, 77, 0.7)), url(images/banner3.jpg);
    background-position: center;
    background-size: cover;
    position: relative;
}
    color: white;

nav {
    display: flex;
    padding: 2% 6%;
    justify-content: center;
    align-items: center;
}

nav img {
    width: 59px;
}

.nav-links {
    flex: 1;
    text-align: right;
}

.nav-links ul li {
    list-style: none;
    display: inline-block;
    padding: 8px 12px;
    position: relative;
}

.nav-links ul li a {
    color: white;
    text-decoration: none;
    font-size: 20px;
}

.nav-links ul li::after {
    content: '';
    width: 0%;
    height: 3px;
    background: black;
    display: block;
}

```

```

        margin: auto;
        transition: 0.5s;
    }

    .nav-links ul li:hover::after {
        width: 100%;
    }

    .text-box {
        width: 90%;
        color: □#fff;
        position: absolute;
        top: 50%;
        left: 50%;
        transform: translate(-50%, -50%);
        text-align: center;
    }

    .text-box h1 {
        font-size: 62px;
    }

    .text-box p {
        margin: 10px 0 40px;
        font-size: 14px;
        color: □white;
    }

    .hero-btn {
        display: inline-block;
        text-decoration: none;
        color: □white;
        border: 1px solid □white;
        padding: 12px 34px;
        font-size: 13px;
        background: transparent;
        position: relative;
        cursor: pointer;
    }

    .hero-btn:hover {
        border: 1px solid □#f44336;
        background: □#f44336;
        color: □white;
        transition: 1s;
    }

    nav .fa {
        display: none;
    }

    @media(max-width:700px) {
        .text-box h1 {
            font-size: 20px;
        }

        .nav-links ul li {
            margin: auto;
            transition: 0.5s;
        }

        .nav-links ul li:hover::after {
            width: 100%;
        }

        .text-box {
            width: 90%;
            color: □#fff;
            position: absolute;
            top: 50%;
            left: 50%;
            transform: translate(-50%, -50%);
            text-align: center;
        }

        .text-box h1 {
            font-size: 62px;
        }

        .text-box p {
            margin: 10px 0 40px;
            font-size: 14px;
            color: □white;
        }
    }

```

```
        display: block;
    }

.nav-links {
    position: absolute;
    background: #f44336;
    height: 100vh;
    width: 200px;
    top: 0;
    right: -200px;
    text-align: left;
    z-index: 2;
    transition: 1s;
}

nav .fa {
    display: block;
    color: white;
    margin: 10px;
    cursor: pointer;
    font-size: 22px;
}

.nav-links ul {
    padding: 30px;
}

        box-shadow: 10px 5px 5px #rgb(105, 102, 102);
        transition: 0.5s;
}

@media(max-width:700px) {
    .row {
        flex-direction: column;
    }
}

/* -----FOOTER----- */
footer {
    background-color: #17232c;
    overflow: hidden;
    display: flex;
    justify-content: center;
}

footer a {
    text-decoration: none;
    padding: 20px;
    text-align: center;
    justify-content: center;
    float: left;
    color: white;
}
```

3.3. signin.html

```
<!DOCTYPE html>
<html>

<head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Signin</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 0;
            padding: 0;
            background-color: #f1f1f1;
        }

        .container {
            position: absolute;
            top: 50%;
            left: 50%;
            transform: translate(-50%, -50%);
            /* margin: 0 auto; */
            padding: 20px;
            background-color: #fff;
            border-radius: 5px;
            box-shadow: 10px 10px 10px black;
        }
    </style>
</head>
<body>
    <div class="container">
        <h1>Sign In</h1>
        <form>
            <input type="text" placeholder="Email" />
            <input type="password" placeholder="Password" />
            <button type="submit" value="Sign In">Sign In</button>
        </form>
        <p>Forgot Password? <a href="#">Get Help</a></p>
    </div>
</body>
</html>
```

```

        h2 {
            text-align: center;
            margin-bottom: 20px;
        }

        input[type="text"],
        input[type="password"] {
            width: 100%;
            padding: 12px 20px;
            margin: 8px 0;
            display: inline-block;
            border: 1px solid #ccc;
            box-sizing: border-box;
            border-radius: 4px;
        }

        button {
            background-color: #4CAF50;
            color: white;
            padding: 14px 20px;
            margin: 8px 0;
            border: none;
            cursor: pointer;
            width: 100%;
            border-radius: 4px;
        }

        button:hover {
            opacity: 0.8;
        }

        @media screen and (max-width: 500px) {
            .container {
                width: 80%;
            }
        }
    




```

3.4. register.html

```

<!DOCTYPE html>
<html>

<head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Registration form </title>

    <style>
        @import url('https://fonts.googleapis.com/css2?family=Poppins&family=Quicksand:wght@600&display=swap');

        body {
            background-color: rgba(89, 130, 251, 0.7);
        }

        h1 {
            text-align: center;
            text-decoration: underline;
            color: white;
            font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans', Arial, sans-serif;
        }

        #name {
            width: 80%;
            padding: 5px;
            border-radius: 5%;
            outline: 0;
        }
    </style>

```

```

        border: 1px solid black;
    }

    td {
        font-family: Arial, Helvetica, sans-serif
    }

    table {
        color: black;
        background-color: #rgba(137, 191, 227, 0.972);
        font-size: 16px;
        font-family: serif;
        margin-left: 470px;
        padding: 5px;
        border-radius: 30px;
        border: 5px solid white;
        text-align: -webkit-center;
    }

    @media only screen and (max-width: 768px) {
        body {
            font-size: 14px;
        }

        table {
            margin-left: auto;
            margin-right: auto;
        }

        #name,
        #psd {
            width: 100%;
            box-sizing: border-box;
        }

        td {
            text-align: center;
        }

        textarea {
            width: 100%;
        }
    }
}

</style>
</head>

<body>
<form action="">
    <h1>Student Registration Form </h1>
    <table cellpadding="10">
        <tr>
            <td>First Name :</td>
            <td><input type="text" id="name" name="name" placeholder="Enter Your First Name"></td>
        </tr>
        <tr>
            <td>Last Name :</td>
            <td><input type="text" id="name" name="name" placeholder="Enter Your Last Name"></td>
        </tr>
        <tr>
            <td>email :</td>
            <td><input type="text" id="name" name="email" placeholder="Enter Your email"></td>
        </tr>
        <tr>
            <td>Password :</td>
            <td><input type="password" id="name" name="pass" placeholder="Enter Your Password"></td>
        </tr>
        <tr>
            <td>Re-Enter Password :</td>
        </tr>
    </table>
</form>

```

```

        <td><input type="password" id="psd" name="name" placeholder="Re-Enter Your Password"></td>
</tr>
<tr>
    <td>Date Of Birth :</td>
    <td><input type="date" id="name" name="DOB" placeholder="Enter Your Date Of Birth"></td>
</tr>
<tr>
    <td>Mobile Number :</td>
    <td><input type="number" id="name" name="MNUM" placeholder="Enter Your Mobile Number"></td>
</tr>
<tr>
    <td>Gender :</td>
    <td><input type="radio" name="Male">Male
        <input type="radio" name="Male"> Female
        <input type="radio" name="Male"> others
    </td>
</tr>
<tr>
    <td>Address :</td>
    <td><textarea rows="6" cols="25" placeholder="Enter Your Address"></textarea></td>
</tr>
<tr>
    <td>State :</td>
    <td><input type="text" id="name" name="state" placeholder="Enter Your state"></td>
</tr>
<tr>
    <td>City :</td>
    <td><input type="text" id="name" name="city" placeholder="Enter Your city"></td>
</tr>
<tr>
    <td>Country :</td>
    <td><input type="text" id="name" name="Country" placeholder="Enter Your Country"></td>
</tr>
<tr>
    <td>pincode :</td>
    <td><input type="text" id="name" name="num" placeholder="Enter Your pincode"></td>
</tr>
<tr>
    <td>Course Applied For :</td>
    <td><input type="radio" name="Male">BSC
        <input type="radio" name="Male">B.COM
        <input type="radio" name="Male">BA
        <input type="radio" name="Male">BCA
        <input type="radio" name="Male">BA
        <input type="radio" name="Male">others
    </td>
</tr>
</tr>
<tr>
    <td align="center" colspan="2">
        <button type="submit">Submit</button>
        &nbsp;&nbsp; <button type="reset">Reset</button>
    </td>
</tr>
</tr>
</table>
</form>
</body>

</html>

```

3.5. questions.html

```
<!DOCTYPE html>
<html>

<head>
    <title>Test is here</title>
    <link rel="stylesheet" type="text/css" href="./questions.css">
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/jquery.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
</head>

<body>
    <div class="quizContainer container-fluid well well-lg">
        <div id="quiz1" class="text-center">
            <h2 id="e-sub">Your test is Here</h2>
            <h4 style="color: #FF0000; text-align:center;">
                <span id="iTimeShow">Time Remaining: </span>
                <span id='timer'></span>
            </h4>
        </div>
        <div class="question"></div>
        <ul class="choiceList"></ul>
        <div class="quizMessage"></div>
        <div class="result"></div>
        <button class="preButton">Previous Question</button>
        <button class="nextButton">Next Question</button>
    </div>
    <script src="./questions.js"></script>
</body>

</html>
```

3.6. questions.js

```
var questions = [
    {
        question: "1. How do you write 'Hello World' in an alert box?",
        choices: ["msg('Hello World')", "msgBox('Hello World')", "alertBox('Hello World')", "alert('Hello World')"],
        correctAnswer: 3
    },
    {
        question: "2. How to empty an array in JavaScript?",
        choices: ["arrayList[]", "arrayList(0)", "arrayList.length=0", "arrayList.len(0)"],
        correctAnswer: 2
    },
    {
        question: "3. What function to add an element at the begining of an array and one at the end?",
        choices: ["push,unshift", "unshift,push", "first,push", "unshift,last"],
        correctAnswer: 1
    },
    {
        question: "4. What will this output? var a = [1, 2, 3]; console.log(a[6]);",
        choices: ["undefined", "0", "prints nothing", "Syntax error"],
        correctAnswer: 0
    },
    {
        question: "5. What would following code return? console.log(typeof typeof 1);",
        choices: ["string", "number", "Syntax error", "undefined"],
        correctAnswer: 0
    },
    {
        question: "6. Which software company developed JavaScript?",
        choices: ["Mozilla", "Netscape", "Sun Microsystems", "Oracle"],
        correctAnswer: 1
    },
    {
        question: "7. What would be the result of 3+2+'7'?",
        choices: ["327", "12", "14", "57"],
        correctAnswer: 3
    },
    {
        question: "8. Look at the following selector: $('div'). What does it select?",
        choices: ["The first div element", "The last div element", "All div elements", "Current div element"],
        correctAnswer: 2
    },
    {
        question: "9. How can a value be appended to an array?",
        choices: ["arr.length.value;", "arr[arr.length]=value;", "arr[]=add(value);", "None of these"],
        correctAnswer: 1
    },
    {
        question: "10. What will the code below output to the console? console.log(1 + +'2' + '2');",
        choices: ["'32'", "'122'", "'13'", "'14'"],
        correctAnswer: 0
    }
];

var currentQuestion = 0;
var viewingAns = 0;
```

```

var correctAnswers = 0;
var quizOver = false;
var iSelectedAnswer = [];
var c = 180;
var t;
$(document).ready(function () {
    // Display the first question
    displayCurrentQuestion();
    $(this).find(".quizMessage").hide();
    $(this).find(".preButton").attr('disabled', 'disabled');

    timedCount();

    $(this).find(".preButton").on("click", function () {

        if (!quizOver) {
            if (currentQuestion == 0) { return false; }

            if (currentQuestion == 1) {
                $(".preButton").attr('disabled', 'disabled');
            }

            currentQuestion--;
            if (currentQuestion < questions.length) {
                displayCurrentQuestion();
            }
        } else {
            if (viewingAns == 3) { return false; }
            currentQuestion = 0; viewingAns = 3;
            viewResults();
        }
    });
});

$(this).find(".nextButton").on("click", function () {
    if (!quizOver) {

        var val = $("input[type='radio']:checked").val();

        if (val == undefined) {
            $(document).find(".quizMessage").text("Please select an answer");
            $(document).find(".quizMessage").show();
        }
        else {
            $(document).find(".quizMessage").hide();
            if (val == questions[currentQuestion].correctAnswer) {
                correctAnswers++;
            }
            iSelectedAnswer[currentQuestion] = val;

            currentQuestion++;
            if (currentQuestion >= 1) {
                $('.preButton').prop("disabled", false);
            }
            if (currentQuestion < questions.length) {
                displayCurrentQuestion();
            }
        }
        else {
            displayScore();
            $('#iTimeShow').html('Test Time Completed!');
            $('#timer').html("You scored: " + correctAnswers + " out of: " + questions.length);
            c = 185;
            $(document).find(".preButton").text("View Answer");
            $(document).find(".nextButton").text("Test Again?");
            quizOver = true;
            return false;
        }
    }
}

else { // quiz is over and clicked the next button (which now displays 'Play Again?'
    quizOver = false; $('#iTimeShow').html('Time Remaining:'); iSelectedAnswer = [];
    $(document).find(".nextButton").text("Next Question");
    $(document).find(".preButton").text("Previous Question");
    $(".preButton").attr('disabled', 'disabled');
    resetQuiz();
    viewingAns = 1;
    displayCurrentQuestion();
    hideScore();
}
}

```

```

function timedCount() {
    if (c == 185) {
        return false;
    }

    var hours = parseInt(c / 3600) % 24;
    var minutes = parseInt(c / 60) % 60;
    var seconds = c % 60;
    var result = (hours < 10 ? "0" + hours : hours) + ":" + (minutes < 10 ? "0" + minutes : minutes) + ":" + (seconds < 10 ? "0" + seconds : seconds);
    $('#timer').html(result);

    if (c == 0) {
        displayScore();
        $('#iTimeShow').html('Quiz Time Completed!');
        $('#timer').html("You scored: " + correctAnswers + " out of: " + questions.length);
        c = 185;
        $(document).find(".preButton").text("View Answer");
        $(document).find(".nextButton").text("Play Again?");
        quizOver = true;
        return false;
    }

    c = c - 1;
    t = setTimeout(function () {
        timedCount()
    }, 1000);
}
}

function displayCurrentQuestion() {
    if (c == 185) { c = 180; timedCount(); }

    var question = questions[currentQuestion].question;
    var questionClass = $(document).find(".quizContainer > .question");
    var choiceList = $(document).find(".quizContainer > .choiceList");
    var numChoices = questions[currentQuestion].choices.length;

    $(questionClass).text(question);
    $(choiceList).find("li").remove();
    var choice;

    for (i = 0; i < numChoices; i++) {
        choice = questions[currentQuestion].choices[i];

        if (iSelectedAnswer[currentQuestion] == i) {
            $('<li><input type="radio" class="radio-inline" checked="checked" value=' + i + ' name="dynradio" /')
        } else {
            $('<li><input type="radio" class="radio-inline" value=' + i + ' name="dynradio" />' + ' ' + choice +
        }
    }
}

function resetQuiz() {
    currentQuestion = 0;
    correctAnswers = 0;
    hideScore();
}

function displayScore() {
    $(document).find(".quizContainer > .result").text("You scored: " + correctAnswers + " out of: " + questions.length);
    $(document).find(".quizContainer > .result").show();
}

for (i = 0; i < numChoices; i++) {
    choice = questions[currentQuestion].choices[i];

    if (iSelectedAnswer[currentQuestion] == i) {
        $('<li><input type="radio" class="radio-inline" checked="checked" value=' + i + ' name="dynradio" /')
    } else {
        $('<li><input type="radio" class="radio-inline" value=' + i + ' name="dynradio" />' + ' ' + choice +
    }
}

function resetQuiz() {
    currentQuestion = 0;
    correctAnswers = 0;
    hideScore();
}

function displayScore() {
    $(document).find(".quizContainer > .result").text("You scored: " + correctAnswers + " out of: " + questions.length);
    $(document).find(".quizContainer > .result").show();
}

```

3.6. repository.html

```
<!DOCTYPE html>
<html>

<head>
    <title>Repository</title>
    <link rel="stylesheet" href="./e-repository.css">
</head>

<body>
    <header>
        <marquee direction="right">
            WELCOME
        </marquee>
    </header>
    <nav>
        <ul>
            <li><a href=".//home.html" target="_blank">Home</a></li>
            <li><a href=".//e-exam.html" target="_blank">Test</a></li>
            <li><a href=".//e-repository.html">Repository</a></li>
            <li><a href=".//comment.html">Openforum</a></li>
            <li><a href=".//mywall.html">MyWall</a></li>
        </ul>
    </nav>
    <main>
        <form action="#">
            <label for="file">Choose a file:</label>
            <input type="file" id="file" name="file">
            <input type="submit" value="Upload" class="upload-btn">
        </form>
    </main>
    <table class="content-table">
        <thead>
            <tr>
                <th>First Name</th>
                <th>Last Name</th>
                <th>File</th>
                <th>Time</th>
            </tr>
        </thead>
        <tbody>
            <tr>
                <td>Arun</td>
                <td>Kumar</td>
                <td><a href="JS.pdf" download>JS.pdf</a></td>
                <td>Today</td>
            </tr>
            <tr>
                <td>Akram</td>
                <td>Sahoo</td>
                <td><a href="DSA.pdf" download>DSA.pdf</a></td>
                <td>Today</td>
            </tr>
            <tr>
                <td>Vamshi</td>
            </tr>
        </tbody>
    </table>
</body>
```

3.6. openforum.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="commentstyle.css">
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.bundle.min.js">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.2.1/jquery.min.js">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
    <title>Openforum</title>
</head>

<body>

    <!-- Main Body -->
    <section>
        <div class="container">
            <div class="row">
                <div class="col-sm-5 col-md-6 col-12 pb-4">
                    <h1>Comments by our users :</h1>
                    <div class="comment mt-4 text-justify float-left">
                        
                        <h4 class="text-white">Jhon Doe</h4>
                        <span>- 20 October, 2024</span>
                    </div>
                </div>
            </div>
        </div>
    </section>
</body>
```

```

<br>
<p>Positive: The design is intuitive and user-friendly, making navigation straightforward even for first-t  

Suggestion: Consider adding customizable dashboards to give testers quick access to their most-used tools  

metrics.</p>
</div>
<div class="text-justify darker mt-4 float-right">
    
    <h4 class="text-white">Rob Simpson</h4>
    <span>- 21 October, 2024</span>
    <br>
    <p>The Virtual Test Hub (VTH) offers a user-friendly interface and robust testing features, making it a va  

ditive testing needs. Real-time reporting and collaboration tools stand out, enhancing team efficiency an  

decision-making.</p>
</div>
<div class="comment mt-4 text-justify">
    
    <h4 class="text-white">Elon Musk</h4>
    <span>- 11 November, 2024</span>
    <br>
    <p>However, more customization options for dashboards and visualizations could further improve user experi  

AI-driven insights and integration capabilities would position it as a cutting-edge solution.</p>
</div>
<div class="darker mt-4 text-justify">
    
    <h4 class="text-white">Donald J Trump</h4>
    <span>- 25 December, 2024</span>
    <br>
    <p>The Virtual Test Hub is a well-rounded platform with robust features that address modern testing chal  

refinements in usability, analytics, and integration capabilities, it could become an industry leader.</p>
</div>
</div>
<div class="col-lg-4 col-md-5 col-sm-4 offset-md-1 offset-sm-1 col-12 mt-4">
    <form id="align-form">
        <div class="form-group">
            <h4 class="text-white">Upload a POST</h4>
            <label for="message">Message</label>
            <textarea name="msg" id="" msg cols="30" rows="5" class="form-control"
                      style="background-color: black; color: white;"></textarea>
        </div>
        <div class="form-group">
            <button type="button" id="post" class="btn">Upload</button>
        </div>
    </form>
</div>
<!--
<!DOCTYPE html>
<html>

<head>
    <title>Repository</title>
    <link rel="stylesheet" href=".e-repository.css">
</head>

<body>
    <header>
        <marquee direction="right">
            WELCOME
        </marquee>
    </header>
    <nav>
        <ul>
            <li><a href="/home.html" target="_blank">Home</a></li>
            <li><a href=".e-exam.html" target="_blank">Test</a></li>
            <li><a href=".e-repository.html">Repository</a></li>
            <li><a href=".comment.html">Openforum</a></li>
            <li><a href=".mywall.html">MyWall</a></li>
        </ul>
    </nav>
    <main>
        <form action="#">
            <label for="file">Choose a file:</label>
            <input type="file" id="file" name="file">
            <input type="submit" value="Upload" class="upload-btn">
        </form>
        <table border="1">
            <tbody>
                <tr>
                    <td>Krishna</td>
                    <td><a href="Chemistry.pdf" download>Chemistry.pdf</a></td>
                    <td>Yesterday</td>
                </tr>
                <tr>
                    <td>Arjun</td>
                    <td>Reddy</td>
                    <td><a href="History.pdf" download>History.pdf</a></td>
                    <td>2 days ago</td>
                </tr>
            </tbody>
        </table>
    </main>
</body>
</html>

```

4. WORK PLAN

4.1 Introduction

A project work plan allows you to outline the requirements of a project, project planning steps, goals, and team members involved in the project. Within each goal, you're going to outline the necessary Key Action Steps in project planning, the requirements, and who's involved in each action step.

4.2 Work Breakdown Structure

In order to develop this system, we gave enormous importance to scheduling because we believed if we want to provide the best of quality in a given period of time then we must give due importance to scheduling which also helped us to achieve a better results.

We observe the entire work structure, meaning how the scheduling was maintained throughout the developmental phase. We shall also see the financial foundation of this project and furthermore the feasibility ,study should be also discussed.

Month	Activity	Status
September	Selection of project area and Study of related works.	Completed
October	Study on Software Implementation works. HTML , CSS, JAVASCRIPT and PHP	Completed
October	Study of packages/tools and installation of packages and Implementation of working.	Completed
November	Platform Implementation of code and User Interface Design	Completed

5. CONCLUSION

In conclusion,

The Virtual Test Hub is a transformative platform that redefines how assessments are conducted in modern education. By integrating advanced technologies with user-centric features, it ensures a seamless, secure, and engaging testing experience for all users. With its scalable and future-ready architecture, VTH addresses the current needs of educational institutions while preparing for evolving demands.

****Efficiency and Convenience:****

The platform automates test management processes, reducing time and effort for educators.

Students benefit from flexible test-taking options, instant feedback, and access to preparation materials, ensuring a more convenient and effective learning journey

****Fairness and Security:****

VTH incorporates robust security features such as anti-cheating mechanisms and data protection protocols. Its randomization of questions and strict validation processes ensure a fair and unbiased testing environment for all participants.

****Eco-Friendliness and Scalability:****

By eliminating the need for paper-based tests, VTH promotes sustainability and supports institutions in adopting environmentally responsible practices. Its scalable design ensures reliable performance for small to large institutions, making it a versatile solution for the future of education.

****Conclusion: Revolutionizes virtual education by providing a secure, efficient, and user-friendly platform for seamless assessments and learning resources.****