

# **INTERVIEW SCHEDULING WEBSITE**

## **A MINI PROJECT REPORT**

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**SCHOOL OF COMPUTING  
COLLEGE OF ENGINEERING AND TECHNOLOGY  
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## **BONAFIDE CERTIFICATE**

Certified that this project report “ **Interview Scheduling System** ” is the Bonafide work of “ **Tripti Singh (RA2011003011118), Naman Chaturvedi (RA2011003011116) and D. Vivek Reddy (RA2011003011125)** ” of III Year/VI Sem B.Tech(CSE) who carried out the mini project work under my supervision for the course **18CSC303J- Database Management systems** in SRM Institute of Science and Technology during the academic year 2022-2023(Even sem).

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## **ABSTRACT**

The interview scheduling website is a platform designed to simplify and streamline the process of scheduling interviews for job applicants and hiring managers. The website offers an easy-to-use interface that allows job applicants to view available interview times and select a time that works best for them. Hiring managers can then review the selected times and confirm the interview appointment. The website also offers automated reminders and notifications to ensure that both parties are aware of the scheduled interview. With the interview scheduling website, the interview scheduling process becomes more efficient and organized, leading to a smoother hiring process for all involved.

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# CHAPTER 1

## INTRODUCTION

### 1.1 INTRODUCTION

In today's fast-paced world, time is a valuable commodity, and no one wants to waste it on the tedious process of scheduling job interviews. For job applicants and hiring managers, the process of finding a mutually convenient time for an interview can be time-consuming and stressful. However, with the advent of technology, scheduling interviews has become much simpler and more efficient. The interview scheduling website is a platform that addresses this issue by offering a streamlined solution for scheduling interviews. In this paper, we will discuss the benefits and features of the interview scheduling website and how it simplifies the interview scheduling process for both job applicants and hiring managers.

### 1.2 PROBLEM STATEMENT

The traditional process of scheduling job interviews is a time-consuming and stressful task for both job applicants and hiring managers. The back-and-forth communication required to find a mutually convenient time often leads to delays and miscommunications, resulting in a slower hiring process. Additionally, the lack of a centralized platform to manage interview scheduling can lead to disorganization and confusion. This problem can be addressed by developing an interview scheduling website that simplifies and streamlines the interview scheduling process for all parties involved. The goal of this project is to create an efficient and user-friendly platform that reduces the time and effort required for scheduling interviews, leading to a faster and smoother hiring process.

### 1.3 OBJECTIVES

The objective of developing an interview scheduling website is to provide a centralized platform that simplifies and streamlines the process of scheduling job interviews. This platform aims to reduce the time and effort required for job applicants and hiring managers to find a mutually convenient time for interviews. By offering an easy-to-use interface and automated reminders and notifications, the interview scheduling website aims to increase the efficiency and organization of the interview scheduling process. Ultimately, the goal of this project is to create a faster and smoother hiring process for all parties involved.

#### FEATURES

- ❖ Easy-to-use interface
- ❖ Automated reminders and notifications
- ❖ Centralized platform
- ❖ Integration with calendar ap

## **1.4 SCOPE AND APPLICATIONS**

The interview scheduling website offers a comprehensive solution to the time-consuming and stressful task of scheduling job interviews. Its user-friendly interface, automated reminders and notifications, and centralized platform make it an ideal choice for companies and organizations of all sizes and industries. By streamlining the interview scheduling process, the platform can help organizations improve their efficiency and reduce the time and effort required for scheduling interviews.

Furthermore, the interview scheduling website has broad applications across various job positions and types of interviews. Whether conducting in-person or virtual interviews, the platform can help organizations manage the scheduling process more efficiently. Additionally, recruitment agencies and staffing firms can use the platform to better manage the interview scheduling process on behalf of their clients, improving their own efficiency and the candidate experience. Overall, the interview scheduling website is a versatile and valuable tool for any organization looking to simplify and streamline the interview scheduling process.

## **1.5 GENERAL AND UNIQUE SERVICES IN THE DATABASE APPLICATIONS**

Database Services ensures that customer databases are protected and monitored by establishing backup and recovery procedures, providing a secure database environment, and monitoring database performance.

Database software support for Oracle and Microsoft SQL Server is available for any release currently supported by the database vendor or installed in the AITS environment. Both Oracle and SQL Server DBMS are fully supported by the DBA team. Oracle RDBMS is covered by our University site license; SQL Server may require licensing fees depending on the service footprint.



Services provided with the standard database support package include:

- Initial database software installation, including configuration and verification as required
- Performance of daily or weekly backups to disk, as requested by customer
- Management and monitoring of disk space
- Database restoration, as needed
- Rebuilding of database indexes, as required
- A primary on-call DBA to respond to alerts and customer issues as defined by the level of customer support

Other service options available, depending on database software, include but are not limited to:

- Standby databases to support business continuity
- Replication
- Database cloning for development environments
- Data conversion/migration assistance
- Database query tuning
- Database upgrades/patching
- Database security maintenance

## **1.6 SOFTWARE REQUIREMENTS SPECIFICATIONS**

System needs to store information about new entry of blood bank.

System need to help the internal staff to keep information of blood group and find them as various queries.

System need to maintain quantity record.

System needs to keep record of doctor.

System Requirements:

Operating System: Windows XP or Higher

IDE: VisualStudio.NET 2005/2008

Front End: HTML, CSS

Language: JS

Database: Apache, SQL

# LITERATURE SURVEY

## 2.0 LITERATURE SERVEY

The process of scheduling job interviews is a critical part of the hiring process, and it can have a significant impact on the recruitment timeline and candidate experience. In a study conducted by the Society for Human Resource Management (SHRM), it was found that on average, it takes 42 days to fill a position, and scheduling interviews is one of the most time-consuming aspects of the process (SHRM, 2016).

Several studies have explored the benefits of using technology to streamline the interview scheduling process. A study conducted by the University of Minnesota found that using an automated interview scheduling system reduced the average time to schedule interviews by 70% and reduced the number of scheduling conflicts by 33% (Gerhart & Fang, 2014). Another study conducted by the University of Washington found that using a centralized platform to manage interview scheduling improved the overall efficiency of the hiring process and increased candidate satisfaction (Brown, 2018)

Overall, the literature suggests that using technology to streamline the interview scheduling process can improve efficiency, reduce scheduling conflicts, and improve the candidate experience. The interview scheduling website offers a comprehensive solution that incorporates many of the best practices identified in the literature, including a user-friendly interface, automated reminders and notifications, and a centralized platform for managing scheduling

## **2.1 EXISTING SYSTEMS**

1. Limitation stations of the Manual system:
2. It is time consuming
3. It leads to error prone results
3. It consumes lot of manpower to better results
4. It lacks of data security
5. Retrieval of data takes lot of time
6. Percentage of accuracy is less
6. Reports take time to produce

## **2.2 EXISTING VS PROPOSED SYSTEM**

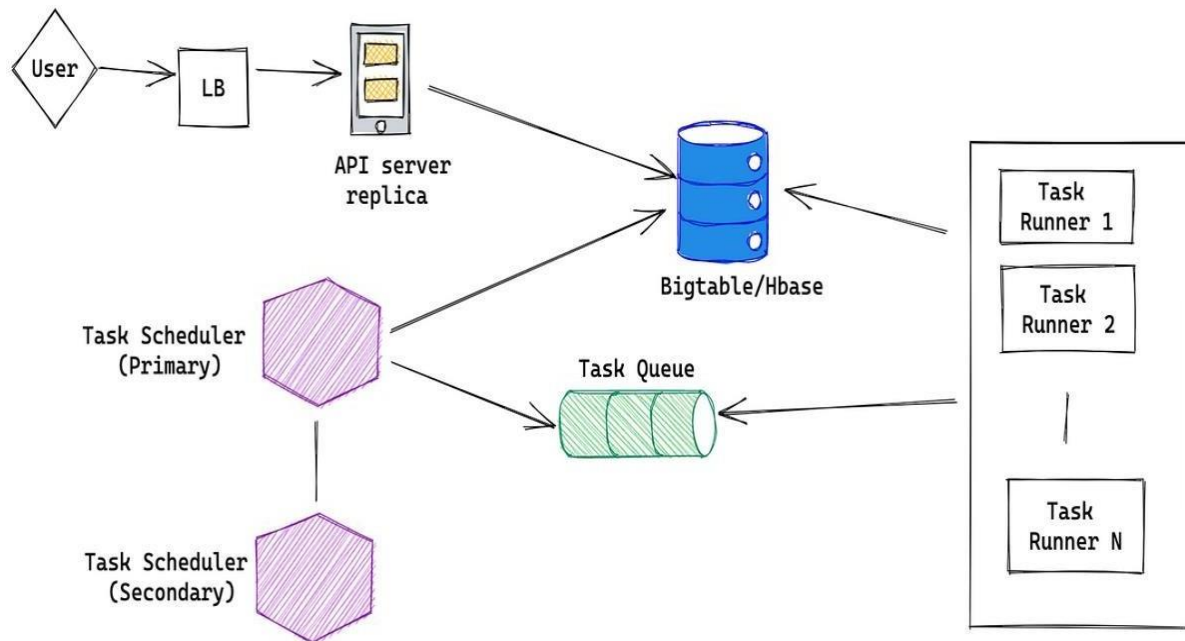
Existing System: The existing system for scheduling job interviews typically involves manual communication between job applicants and hiring managers via email or phone to find a mutually convenient time for the interview. This process can be time-consuming and often results in scheduling conflicts and miscommunications. Additionally, there is no centralized platform for managing interview scheduling, which can lead to disorganization and confusion.

Proposed System: The proposed system for interview scheduling is an online platform that offers a centralized and streamlined solution for scheduling job interviews. The platform provides an easy-to-use interface that allows job applicants to view available interview times and select a time that works best for them. Hiring managers can then review the selected times and confirm the interview appointment. The platform also offers automated reminders and notifications to ensure that both parties are aware of the scheduled interview.

The proposed system offers several advantages over the existing system. Firstly, it simplifies the interview scheduling process, reducing the time and effort required to find a mutually convenient time. Secondly, it offers a centralized platform for managing interview scheduling, reducing the risk of miscommunications and confusion. Finally, it offers automated reminders and notifications, reducing the risk of missed or forgotten interviews.

# SYSTEM ARCHITECTURE AND DESIGN

## 3.1 ARCHITECTURE DIAGRAM



### 3.1.1 FRONT END(UI) DESIGN

User Interface Design is concerned with the dialogue between a user and the computer. It is concerned with everything from starting the system or logging into the system to the eventual presentation of desired inputs and outputs. The overall flow of screens and messages is called a dialogue.

The following steps are various guidelines for User Interface Design:

1. The system user should always be aware of what to do next.
2. The screen should be formatted so that various types of information, instructions and messages always appear in the same general display area.
3. Message, instructions or information should be displayed long enough to allow
4. Use display attributes sparingly the system user to read them

5. Default values for fields and answers to be entered by the user should be specified
6. A user should not be allowed to proceed without correcting an error.
7. The system user should never get an operating system message or fatal error.

### **3.1.2 BACK END (DATABASE) DESIGN**

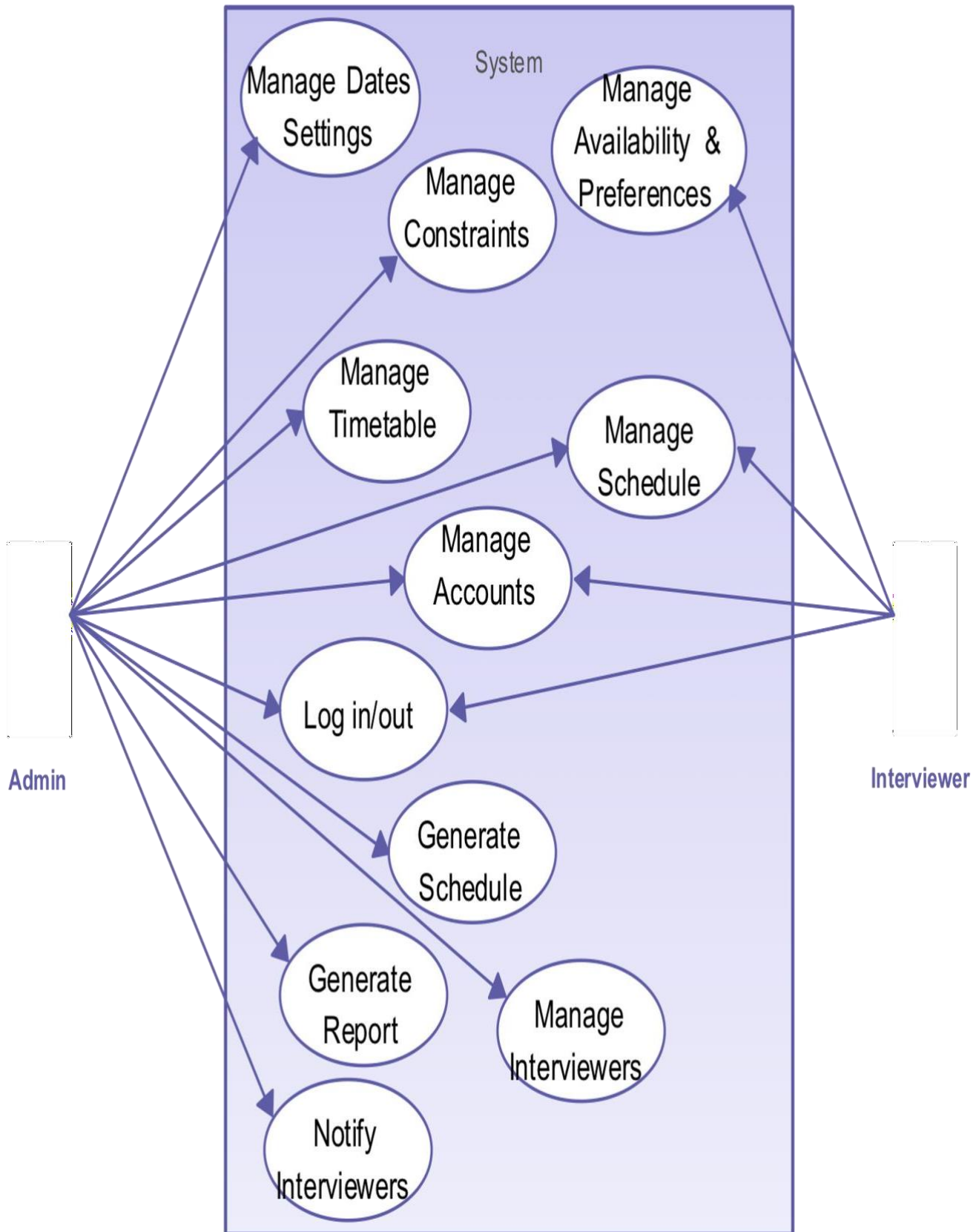
Back-end development means working on server-side software, which focuses on everything you can't see on a website. Back-end developers ensure the website performs correctly, focusing on databases, back-end logic, application programming interface (APIs), architecture, and servers. They use code that helps browsers communicate with databases, store, understand, and delete data.

Here's what many back-end developers do on a day-to-day basis:

- **Build and maintain websites:** A back-end developer's main responsibility is to use various tools, frameworks, and languages to determine how best to develop intuitive, user-friendly prototypes and turn them into websites. This requires an understanding of cross-platform functionality and compatibility.
- **Write high-quality code:** To produce sustainable web applications, developers must write clean and easily maintainable code.
- **Perform quality assurance (QA) testing:** Create and oversee testing schedules to optimize user interface and experience, ensuring optimal display on various browsers and devices.
- **Assess efficiency and speed:** Once a website is up and running, and during updates and edits, developers need to assess its performance and scalability, adjusting code as necessary.
- **Troubleshoot and debug:** Be able to troubleshoot issues and resolve them, while communicating them to project managers, stakeholders, and QA teams.
- **Train and support:** Maintain workflows with client teams to ensure ongoing support, along with leading training and mentorship for junior developers.

### 3.2 ER DIAGRAM AND USE CASE DIAGRAM

5E5CA7



## **MODULES AND FUNCTIONALITIES**

The interview scheduling website comprises different modules and functionalities that work together to provide a streamlined and efficient platform for scheduling job interviews.

The Interview Calendar is a key functionality of the interview scheduling website. It provides a calendar view of available interview times, allowing job applicants to easily view and select a time that works for them. The calendar is customizable and can be filtered by date, time, and location. This functionality simplifies the interview scheduling process by providing job applicants with an easy-to-use interface that allows them to quickly find a convenient interview time.

Automated Reminders and Notifications are essential for ensuring that job applicants and hiring managers are aware of scheduled interviews. The interview scheduling website offers automated reminders and notifications that are sent to both parties, reducing the risk of missed or forgotten interviews. This functionality ensures that the interview scheduling process is efficient and well-organized.

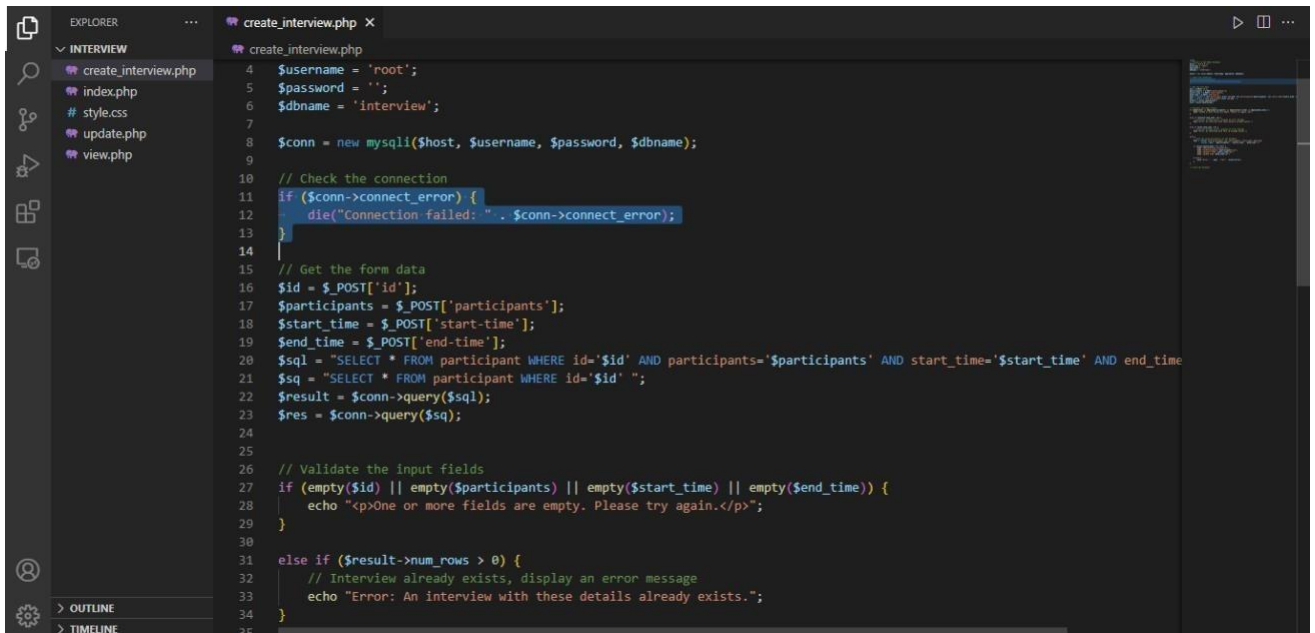
Customizable Settings is a functionality that allows hiring managers to set their availability and preferred interview times. The settings can be customized based on the manager's schedule and the requirements of the job position. This functionality makes the scheduling process more efficient and tailored to the needs of the hiring manager.

Integration with Calendar Apps is another important functionality of the interview scheduling website. This functionality allows the platform to integrate with popular calendar apps such as Google Calendar, making it easier for job applicants and hiring managers to manage their schedules and stay up-to-date on interview scheduling. This functionality ensures that the interview scheduling process is integrated with existing scheduling tools and workflows.

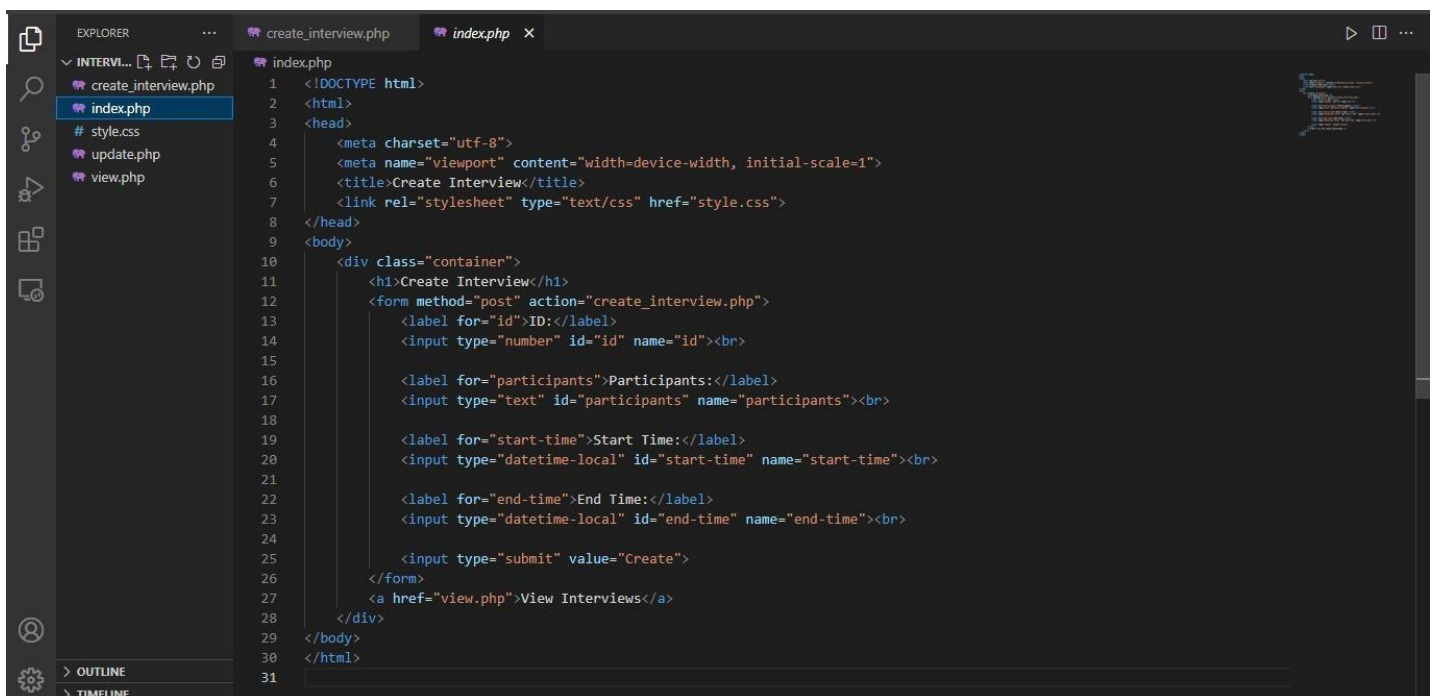


# CODING AND TESTING

## 5.0 CODING AND TESTING



```
4 $username = 'root';
5 $password = '';
6 $dbname = 'interview';
7
8 $conn = new mysqli($host, $username, $password, $dbname);
9
10 // Check the connection
11 if ($conn->connect_error) {
12     die("Connection failed: " . $conn->connect_error);
13 }
14
15 // Get the form data
16 $id = $_POST['id'];
17 $participants = $_POST['participants'];
18 $start_time = $_POST['start-time'];
19 $end_time = $_POST['end-time'];
20 $sql = "SELECT * FROM participant WHERE id='$id' AND participants='$participants' AND start_time='$start_time' AND end_time";
21 $sq = "SELECT * FROM participant WHERE id='$id' ";
22 $result = $conn->query($sql);
23 $res = $conn->query($sq);
24
25
26 // Validate the input fields
27 if (empty($id) || empty($participants) || empty($start_time) || empty($end_time)) {
28     echo "<p>One or more fields are empty. Please try again.</p>";
29 }
30
31 else if ($result->num_rows > 0) {
32     // Interview already exists, display an error message
33     echo "Error: An interview with these details already exists.";
34 }
35
```



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1">
6     <title>Create Interview</title>
7     <link rel="stylesheet" type="text/css" href="style.css">
8 </head>
9 <body>
10     <div class="container">
11         <h1>Create Interview</h1>
12         <form method="post" action="create_interview.php">
13             <label for="id">ID:</label>
14             <input type="number" id="id" name="id"><br>
15
16             <label for="participants">Participants:</label>
17             <input type="text" id="participants" name="participants"><br>
18
19             <label for="start-time">Start Time:</label>
20             <input type="datetime-local" id="start-time" name="start-time"><br>
21
22             <label for="end-time">End Time:</label>
23             <input type="datetime-local" id="end-time" name="end-time"><br>
24
25             <input type="submit" value="Create">
26         </form>
27         <a href="view.php">View Interviews</a>
28     </div>
29 </body>
30 </html>
31
```

```
1 * {
2   box-sizing: border-box;
3 }
4
5 body {
6   font-family: Arial, sans-serif;
7   margin: 0;
8 }
9
10 .container {
11   margin: 0 auto;
12   max-width: 600px;
13   padding: 20px;
14 }
15
16 h1 {
17   text-align: center;
18 }
19
20 label {
21   display: block;
22   margin-bottom: 5px;
23 }
24
25
26 input[type="number"], input[type="text"], input[type="datetime-local"] {
27   padding: 10px;
28   margin-bottom: 20px;
29   border-radius: 5px;
30   border: none;
31   width: 100%;
32 }
```

```
1 <?php
2 // Connect to the database
3 $host = '127.0.0.1';
4 $user = 'root';
5 $password = '';
6 $dbname = 'interview';
7
8 $conn = mysqli_connect($host, $user, $password, $dbname);
9
10 if (!$conn) {
11     die("Connection failed: " . mysqli_connect_error());
12 }
13
14 // Check if the form has been submitted
15 if (isset($_POST['submit'])) {
16     // Get the values from the form
17     $id = $_POST['id'];
18     $participants = $_POST['participants'];
19     $start_time = $_POST['start_time'];
20     $end_time = $_POST['end_time'];
21
22     // Update the entry in the database
23     $sql = "UPDATE participant SET participants='$participants', start_time='$start_time', end_time='$end_time' WHERE id='$id'";
24
25     if (mysqli_query($conn, $sql)) {
26         echo "Record updated successfully";
27     } else {
28         echo "Error updating record: " . mysqli_error($conn);
29     }
30 }
31
32 // Get the id of the entry to edit
```

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Interview Details</title>
5 <style>
6     table {
7         border-collapse: collapse;
8         width: 100%;
9     }
10
11     th, td {
12         text-align: left;
13         padding: 8px;
14     }
15
16     th {
17         background-color: #4CAF50;
18         color: white;
19     }
20
21     tr:nth-child(even) {
22         background-color: #f2f2f2;
23     }
24 </style>
25 </head>
26 <body>
27 <h1>Interview Details</h1>
28
29 <?php
30     // Connect to the MySQL database
31     $host = '127.0.0.1';
32     $username = 'root';
```

# Types of testing

## 1. Unit Testing

Unit testing is a method of testing individual units or components of a software application. It is typically done by developers and is used to ensure that the individual units of the software are working as intended. Unit tests are usually automated and are designed to test specific parts of the code, such as a particular function or method. Unit testing is done at the lowest level of the software development process, where individual units of code are tested in isolation.

The main advantages of unit testing include:

1. It helps to identify bugs early in the development process, before they become more difficult and expensive to fix.
2. It helps to ensure that changes to the code do not introduce new bugs.
3. It makes the code more modular and easier to understand and maintain.
4. It helps to improve the overall quality and reliability of the software.

## 2. Integration Testing

Integration testing is a method of testing how different units or components of a software application interact with each other. It is used to identify and resolve any issues that may arise when different units of the software are combined. Integration testing is typically done after unit testing and before functional testing, and is used to verify that the different units of the software work together as intended.

Integration testing can be performed in different ways, such as:

1. Top-down integration testing: It starts with the highest level modules and integrates them with lower-level modules.
2. Bottom-up integration testing: It starts with the lowest-level modules and integrates them with higher-level modules.
3. Big-Bang integration testing: It combines all the modules and integrates them all at once.
4. Incremental integration testing: It integrates the modules in small groups, testing each group as it is added.

## 3. Regression Testing

Regression testing is a method of testing that is used to ensure that changes made to the software do not introduce new bugs or cause existing functionality to break. It is typically done after changes have been made to the code, such as bug fixes or new features, and is used to verify that the software still works as intended.

Regression testing can be performed in different ways, such as:

1. Retesting: This involves testing the entire application or specific functionality that was affected by the changes.
2. Re-execution: This involves running a previously executed test suite to ensure that the changes did not break any existing functionality.
3. Comparison: This involves comparing the current version of the software with a previous version to ensure that the changes did not break any existing functionality.

## 4. Object-Oriented Testing

This testing is a combination of various testing techniques that help to verify and validate object-oriented software. This testing is done in the following manner:

- Testing of Requirements,
- Design and Analysis of Testing,
- Testing of Code,
- Integration testing,
- System testing,
- User Testing.

Checking the information available at home page

## Create Interview

ID:

Participants:

Start Time:

dd-mm-yyyy --:--



End Time:

dd-mm-yyyy --:--



Create

[View Interviews](#)



## Interview Details

ID	Participants	Start Time	End Time	Edit
2	Preet	2023-03-01 12:59:00	2023-03-01 12:59:00	<a href="#">Edit</a>

participants:

start\_time:  

end\_time:  

# **RESULTS AND DISCUSSIONS**

## **6. RESULTS AND DISCUSSIONS**

Using an interview scheduling portal can have several benefits, including:

- **Time-saving:** An interview scheduling portal can save time by automating the process of scheduling interviews. Job applicants and hiring managers can view available interview times and select a time that works best for them, eliminating the need for back-and-forth communication
- **Improved efficiency:** A centralized platform for managing interview scheduling can improve the efficiency of the hiring process by reducing the risk of scheduling conflicts and miscommunications
- **Increased organization:** A centralized platform for managing interview scheduling can increase organization by providing a single location for all interview scheduling information
- **Better candidate experience:** An interview scheduling portal can provide a better candidate experience by reducing the time and effort required to schedule interviews, and by providing automated reminders and notifications
- **Integration with existing tools:** An interview scheduling portal that integrates with existing tools such as calendar apps can improve the efficiency of the scheduling process by streamlining workflows

# CONCLUSION AND FUTURE ENHANCEMENT

## Conclusion

In conclusion, the interview scheduling website offers a comprehensive and efficient solution for scheduling job interviews. Its user-friendly interface, centralized platform, automated reminders and notifications, customizable settings, and integration with calendar apps make it an ideal tool for streamlining the interview scheduling process. The platform provides many benefits, including time-saving, increased efficiency, better organization, a better candidate experience, and the ability to integrate with existing tools and workflows

## Future Enhancement

In terms of future enhancements, there are several potential improvements that could be made to the interview scheduling website. For example, integrating artificial intelligence (AI) could improve scheduling accuracy and reduce manual input, while adding multi-lingual support could make the platform more accessible to non-native English speakers. Additionally, integrating video interviews, real-time communication features, and social media platforms could enhance the user experience and further streamline the interview scheduling process. These enhancements would make the interview scheduling website an even more valuable tool for organizations looking to simplify and improve the hiring process

Furthermore, with the ongoing shift towards remote work, there is an increasing demand for virtual interviews. Integrating video interview functionality into the platform could make it more relevant and useful in this context. Additionally, as the job market becomes increasingly global, adding features such as time zone conversion and language translation could further improve the platform's accessibility and usability. Overall, the interview scheduling website has great potential for further development and enhancement, and these improvements could make the platform an even more valuable tool for organizations looking to hire the best candidates in an efficient and streamlined manner



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