



جامعہ ملیہ اسلامیہ
جامیہا میلیہا اسلامیہ

Jamia Millia Islamia
A Central University

**A
PROJECT REPORT
ON
AUTOMATED TIMETABLE GENERATOR**

Submitted by:

USAMA ASIF (18DCS067)

UROOSA (15DCS0060)

SADIQ WASEEM

SHIFA NOOR

**In the partial fulfilment of
Diploma in Computer Engineering
JAMIA MILLIA ISLAMIA**

**Under the supervision of
Javed Ahmad
Supervisor, Computer Engineering**

**UNIVERSITY POLYTECHNIC
Faculty of Engineering & Technology
Jamia Millia Islamia
July 2021**



جامعہ ملیہ اسلامیہ
جامیہا میللیا اسلامیہ

Jamia Millia Islamia
A Central University

Date: March 2021

CERTIFICATE

This is to certify that report entitled as “Automated timetable generator” is submitted by **Usama asif , Uroosa , Sadiq waseem and shifa noor** student section of computer engineering , Department of University Polytechnic , Faculty of Engineering and Technology ,Jamia Millia Islamia , New Delhi. This matter embodied in this is original and has not been submitted for the award of any other degree/diploma.

USAMA ASIF (18DCS067)

UROOSA (15DS0060)

SADIQ WASEEM

SHIFA NOOR

Javed Ahmad
(Supervisor)

Approved by

Dr. Sunil
(Coordinator)
Computer Engineering Section

Dr.Mumtaz Ahmad
(Acting Principal)
University Polytechnic

ACKNOWLEDGEMENT

We would like to extend our gratitude and sincere thanks to our mentor and supervisor **Javed Ahmad** for his constant motivation and support during the course of our work in this project. It was really a lifetime experience for us to work with him, and we would not be able to finish our work without his guidance, support and direction. He is epitome of knowledge and wisdom with his practical work for our chosen project problem, with his outstanding vision, crystal clear thought process and razor-sharp analytical approach, he had evaluated our work with sheer pace and provided invaluable inputs for further work. We truly appreciate and value the esteemed guidance and encouragement from the beginning till the very end. We would also like to thank **Dr. Sunil**, Computer Engineering Section, University Polytechnic, Jamia Millia Islamia for providing immense support during the course of this project.

We extend our sincere thanks to other faculty members and non-teaching staff of University Polytechnic for providing all kind of support.

USAMA ASIF (18DCS067)

SADIQ WASEEM

UROOSA (15DCS0060)

SHIFA NOOR

Place: New Delhi

Date: July 2021

Abstract

Most Universities these days have a number of Faculties and Departments and each Department offer different Degree/ Study Programs. Each Study Program has multiple batches enrolled and different Courses are taught in a semester in different Study Programs. Since there are limited Faculty members (Course Instructors), each Instructor teaching more than one Course and Lecture rooms are also limited. Therefore, a timetable is needed to schedule the lectures of teachers . In modern educational Institutions, there is a great need to have an automated timetable generation mechanism, as such timetable scheduling is a very hectic job and can be a very difficult task.

CONTENT

CHAPTER-1 INTRODUCTION	7-9
1.1Project Tittle	
1.2 Definition	
1.3 Motivation	
1.4 Limitations	
1.5 Goal	
1.6 Scope of Project	
 CHAPTER -2 WEB LANGUAGES	 10 -13
2.1 HTML	
2.2 CSS	
2.3 PHP	
2.4 JavaScript	
2.5 MySQL	
 CHAPTER-3 SYSTEM ANALYSIS	 14-17
3.1 Introduction	
3.2 Existing System	
3.3 Proposed System	
3.4 Objective of the System	
3.5 System Requirement Specification	
 CHAPTER-4 DESIGN APPROACH	 18-20
4.1 Introduction	
4.2 External Interface Requirement	
4.3 Functional Requirement	

CHAPTER-5 IMPLEMENTATION	21-53
5.1 Source Code	
5.2 Interfaces Implementation	
CHAPTER-6 RESULT AND OUTPUT	54-58
6.1 Output screen	
CHAPTER-7 CONCLUSION	59-60
7.1 Conclusion	
CHAPTER-8 REFERENCES	61-62
8.1 References	

CHAPTER -1

INTRODUCTION

1.1 PROJECT TITLE:-

AUTOMATED TIMETABLE GENERATION

1.2 DEFINITION:-

Automated Timetable Generator is an easy web-based application that automates the process of timetable scheduling. Timetable scheduling done manually takes a lot of effort and time. The proposed system is a website, which allows the student a good user interface also it provides a good user interface to admin. On this website , you can create timetable for any school or college , allot subject to teachers , prepare a separate table for every teacher and you can schedule holidays in a table . Access to the timetable can be given to the students with an email ID and password but they can only access the timetable and cannot perform any operations like update or delete on it. Only Admin can make changes to the timetable and perform various operations on timetable such as creating a record , updating a record etc.

1.3 MOTIVATION:-

A well-constructed timetable establishes a natural rhythm and routine, which can be comforting to teachers and students. A school timetable with mandated period lengths, and specific subjects for each period helps administrators allocate sufficient resources to the most important curriculum areas.

1.4 LIMITATION:-

- Ammps server must be available to use this application.
- Knowledge of using local host ..
- Wrong data input by technical user.

1.5 GOALS:-

- Easy to use.

- Beautiful user interface.
- Great user experience.
- Free to use.

1.6 SCOPE OF THE PROJECT:-

Timetable Generation System generates timetable for each class and teacher, in keeping with the availability calendar of teachers, availability and capacity of physical resources and rules applicable at different classes, semesters, teachers and subjects level. Best of all, this Timetable Generation System tremendously improves resource utilization and optimization

CHAPTER -2

WEB LANGUAGES

2.1 HTML:-

HTML stands for HyperTextMarkup Language. It is used to design web pages using a markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. A markup language is used to define the text document within tag which defines the structure of web pages. This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. Most markup languages (e.g. HTML) are human-readable. The language uses tags to define what manipulation has to be done on the text. HTML is a markup language used by the browser to manipulate text, images, and other content, in order to display it in the required format.

❖ Features of HTML:

- It is easy to learn and easy to use.
- It is platform-independent.
- Images, videos, and audio can be added to a web page.
- Hypertext can be added to text.
- It is a markup language..

2.2 CSS (Cascading style sheets):-

Cascading Style Sheets which is in a better way known as CSS, is a very simple designed process which is used for making the web pages a lot more presentable. CSS allows you to put styles to customize your web pages. The best part about making use of this styling feature is that the CSS is independent of the HTML way of creating web pages.

Characteristics of CSS

The major characteristics of CSS include styling rules which are interpreted by the client browser and applied to various elements in your document. Major characteristics include:

- .A style rule consists of a selector component and a declaration block component.
- .The selector is used to point to the HTML component which you want to get styled.
- .Inside the declaration block, one or more declarations are contained along with semicolons.
- .Every declaration which is put has a CSS property name, a semicolon, and a value.

For example, color is the property and the value is red in color. Font size is the property and the 15px is the value.

CSS declaration ends with a semicolon and these blocks are surrounded by curly braces.

2.3 PHP(Hypertext Preprocessor):-

The term PHP is an acronym for PHP: Hypertext Preprocessor. PHP is a server-side scripting language designed specifically for web development. It is open-source which means it is free to download and use. It is very simple to learn and use. The files have the extension “.php”.

- PHP started out as a small open source project that evolved as more and more people found out how useful it was. Rasmus Lerdorf unleashed the first version of PHP way back in 1994.
- PHP code is executed in the server.

Characteristics of PHP

- It is simple and easy to use.
- It is efficient and able to connect the database and load the application faster.
- It provides more security to the web application with the help of using PHP frameworks.
- It is more familiar for the developers and online support is being provided for the beginners.
- It shows flexibility and ability to get integrated with another programming language.
- It is open source and free of cost.
- It is lightweight and number of frameworks available to use for developing the web application.
- It helps in achieving the development of web application quickly.

2.4 JavaScript:-

JavaScript is a scripting language, it cannot execute on its own, so we need a platform to execute it. This platform is nothing but the browser where we open the web page, browsers already have built-in execution engines. In earlier times it was supported mainly by IE(Internet Explorer), so for many sites there used to be a note for better performance use IE7 or so.

Features of Client-Side JavaScript

We can Control Document Appearance and Content

We can Control the Browser like pop-up boxes

Interact with HTML Forms e.g. we can have to submit button.

2.5 MySQL:-

We used MySQL to store data in database.

A database is a separate application that stores a collection of data. Each database has one or more distinct APIs for creating, accessing, managing, searching and replicating the data it holds.

Other kinds of data stores can also be used, such as files on the file system or large hash tables in memory but data fetching and writing would not be so fast and easy with those type of systems.

Nowadays, we use relational database management systems (RDBMS) to store and manage huge volume of data. This is called relational database because all the data is stored into different tables and relations are established using primary keys or other keys known as Foreign Keys.

CHAPTER-3

SYSTEM ANALYSIS

3.1 INTRODUCTION:-

System analysis simply refers to what is required of the system as well as the procedures and components required to make the system work on specification. It consists of an in-depth analysis of how the existing system worked, its strengths, weakness, benefits and above all its problem which give side to this research work. In carry out system analysis, an analyst must first define the scope within which he intends to work.

3.2EXISTING SYSTEM:-

.Easily schedule and manage the timetable.

.An administrator can efficiently per-set the time-table
for all classes for any term.

.Create different class timing sets for different types of
periods.

.Effortlessly allocate subjects to the teachers.

.

3.3 PROPOSED SYSTEM:-

The Automatic timetable generation application has the following features:

1. It reduce a time required for generating time table manually.
2. It generate time table for each class and teacher.
3. It increase efficiency and accuracy of proposed system.
4. It provide facility to update/delete any record from the timetable easily.
5. It help teachers to check if there is class at the same time as they are planning to take the class , so that there will not be any conflict.

6. It reduce paperwork and labour work.

7. It solve the problem teacher is facing at the beginning of the semester regarding time of the his/her class by providing proper and accurate timetable.

3.4 OBJECTIVE OF THE SYSTEM:-

The application will make the procedure of time table generation easier consistently which may otherwise need to be done using spread sheet manually which might lead to constraints problem that are strenuous to establish when time table is generated physically. The purpose of the algorithm is to generate a timetable schedule mechanically. The algorithm includes many techniques, aimed at improving the efficiency of the search operation. Effective time management

3.5 SYSTEM REQUIREMENT SPECIFICATION:-

A System Requirement Specification is a structured collection of information that embodies the requirements of a system. It can be of two types; hardware specification and software specification.

3.5.1 SOFTWARE REQUIREMENT

- Operating System: Windows 7 SP1 or later (64-bit), x86-64
- Programming Language: Html ,php , javascript , Css , mysql
- SDK:
 - Google chrome
 - Ammps
 - visual studio code
 - sublime text editor
 - mysql platform
 - apache server.

3.5.2 HARDWARE REQUIREMENT

- Processor: Core i5
- RAM: 4 GB or more
- Hard disk space: 1.32 GB (excluding IDE/tools disk space)
- Monitor: 1024 x 768 resolution or higher

CHAPTER - 4

DESIGN APPROACH

4.1 INTRODUCTION:-

Design is the first step in the development phase for any technique and principles for the purpose job defining a device, a process or system in sufficient detail to permit its physical realization. Once the software requirement has been analysed and specified, the software design involves four technical activities - design, coding, implementation and testing that are required to build and verify the software. The design activities are of main importance in this phase, because in these activities, decisions ultimately effecting the success of the software implementation and its ease of maintenance are made. These decisions are final bearing upon reliability and maintainability of the system. Design is the only way to accurately translate the costumer's requirements into finished software or a system. Design is the place where quality is fostered in development. Software design is the process through which requirements are translated into a representation of the software. Software design is conducted in two steps. Preliminary design is concerned with the transformation of requirement into data.

4.2 EXTERNAL INTERFACE REQUIREMENT:-

This section provides a detailed description of all inputs into and outputs from the system. It also gives a description of the hardware, software and communication interfaces and provides basic prototypes of the user interface.

4.2.1 HARDWARE INTERFACE:

Since the application don't need Internet, the PC with no internet connection is doable . 24/7 electricity is required because data could be interepted if the light.

4.2.2 SOFTWARE INTERFACE :

Ampps and any web browser is required because without ammps ,php programming language will not run. It is a interface dependent software application.

4.3 FUNCTIONAL REQUIREMENT:-

This section describes specific features of the software project. It defines the basic system

behaviour. Essentially, they are what the system does or must not do, and can be thought of in terms of how the system responds to inputs. Functional requirements usually define if/then behaviours and include calculations, data input, and business processes. Functional requirements are features that allow the system to function as it was intended. Put another way, if the functional requirements are not met, the system will not work. Functional requirements are product features and focus on user requirements. Amps or xampp platform.

CHAPTER -5

IMPLEMENTATION

5.1 SOURCE CODE:-

Index.php (Homepage)

```
<html>

<body>
    <div class="bg">
        <h2> <span>
            TIMETABLE GENERATOR <br>
            <br>
            <a href="previous index.php"> Want to create a timetable? Click here.</a>
        </span> </h2>
    </div>
<style>
    body, html{
        height: 100%;
    }
    .bg{
        background-image: url("clock.jpg");
        height: 100%;
        background-position: center;
        background-repeat: no-repeat;
        background-size: cover;
    }
    .bg{
        position: relative;
        width:100%;
        height:100%;
        background-position: center;
        background-repeat: no-repeat;
        background-size: cover;
    }
    h2{
        position:absolute;
        top:200px;
        left:0;
        width: 100%;
    }
    h2 span{
        color:white;
        font:bold 24px/45px Helvetica , San-Serif;
        letter-spacing: -1px;
        background: rgb(0,0,0);
        background: rgba(0,0,0,0.7);
        padding:10px;
```

```

}
nav{
    width: 60%;
    display: flex;
    justify-content: space-around;
    height: 10%;
    width:100%;
}
nav a{
    text-decoration:none;
    text-transform:uppercase;
    color:#000;
    font-weight:900;
    font-size:17px;
    position:relative;
}
nav a: first-child {
    color:#4458dc;
}
nav a:before{
    content:"";
    position:absolute;
    top:110%;
    left:0;
    width:0;
    height:2px;
    border-bottom:2px solid #4458dc;
    transition:all 0.4s linear;
}
nav a:hover: before {
    width:100%;
}

</style>

</body>

```

Dashboard.php (Dashboard)

```
<!DOCTYPE html>
```

```
<nav>
```

```
  <a href="create.php" > Create</a>
```

```
  <a href="teachernames.php">Subject allocation</a>
```

```
  <a href="UserName.html">University detail</a>
```

```
  <a href="holidays.php">Holiday schedule </a>
```

```
  <a href="view.php">Display</a>
```

```
</nav>
```

```
<style>
```

```
nav{
```

```
  width: 60%;
```

```
  display: flex;
```

```
  justify-content: space-around;
```

```
  background-color: white;
```

```
  height: 10%;
```

```
  width:100%;
```

```
}
```

```
nav a{
```

```
  text-decoration:none;
```

```
  text-transform:uppercase;
```

```
  color:#000;
```

```
  font-weight:900;
```

```
  font-size:17px;
```

```
  position:relative;
```

```
}
```



```

nav a: first-child {
    color:#4458dc;
}
nav a:before{
    content:"";
    position:absolute;
    top:110%;
    left:0;
    width:0;
    height:2px;
    border-bottom:2px solid #4458dc;
    transition:all 0.4s linear;
}
nav a:hover: before {
    width:100%;
}
</style>
<?php
include("auth_session.php");
?>
<html>
<head>
    <meta charset="utf-8">
    <title>Dashboard - Client area</title>
    <link rel="stylesheet" href="dashboard.css" />
</head>

```

```

<body>

<br>

<div class="form">

    <p>Hi !, <?php echo $_SESSION['username']; ?>! <br><br> On this website , you
    can create timetable for any school or college , allot subject to teachers and prepare a
    separate table for every teacher.<br>

    <br> Also , you can schedule holidays in a table.<br><br>Access to the timetaable can
    be given to the students with an email ID and password but they can only

    access the timetable and cannot perform and operations on it.<br><br> Only Admin
    can make changes to the timetable and perform various operations on timetable .</p>

<style>

.form {

    margin: 119px auto;

    width: 700px;

    padding: 1px 25px;

    background-color: black;

}

</style>

</body>

</html>

```

- Login.php (Login page)

```

<!DOCTYPE html>

<html>

<head>

    <meta charset="utf-8"/>

    <title>Admin Login</title>

    <link rel="stylesheet" href="login.css"/>

```

```

</head>

<body>

    <h3 align="right"> <a href="studentLogin.php"> Student Login </a>

<?php

    require('db.php');

    session_start();

    // When form submitted, check and create user session.

    if (isset($_POST['username'])) {

        $username = stripslashes($_REQUEST['username']); // removes backslashes

        $password = stripslashes($_REQUEST['password']);

        // Check user is exist in the database

        $query  = "SELECT * FROM `users` WHERE username='$username'

                    AND password='" . md5($password) . "'";

        $result = mysqli_query($conn, $query) or die(mysql_error());

        $rows = mysqli_num_rows($result);

        if ($rows == 1) {

            $_SESSION['username'] = $username;

            // Redirect to user dashboard page

            header("Location: dashboard.php");

        } else {

            echo "<div class='form'>

                <h3>Incorrect Username/password.</h3><br/>

                <p class='link'>Click here to <a href='login.php'>Login</a> again.</p>

                </div>";

        }

    } else {

?>

```

```

<form class="form" method="post" name="login">

    <h1 class="login-title">Admin Login</h1>

    <input type="text" class="login-input" name="username"
placeholder="Username" autofocus="true"/>

    <input type="password" class="login-input" name="password"
placeholder="Password"/>

    <input type="submit" value="Login" name="submit" class="login-button"/>

    <p class="link">Don't have an account? <a href="registration.php">Register
Now</a></p>

</form>

<?php
    }

?>

</body>

</html>

```

- Create.php (Create Timetable)

```

<!DOCTYPE html>

<nav>

    <a href="dashboard.php" > Dashboard</a>

    <a href="teachernames.php">Subject allocation</a>

    <a href="UserName.html">University detail</a>

    <a href="holidays.php">Holiday schedule </a>

    <a href="view.php">Display</a>

</nav>

<style>

nav{

```

```

width: 60%;
display: flex;
justify-content: space-around;
background-color: white;
height: 10%;
width:100%;
}
nav a{
text-decoration:none;
text-transform:uppercase;
color:#000;
font-weight:900;
font-size:17px;
position:relative;
}
nav a: first-child {
color:#4458dc;
}
nav a:before{
content: "";
position:absolute;
top:110%;
left:0;
width:0;
height:2px;
border-bottom:2px solid #4458dc;
transition:all 0.4s linear;

```

```

}

nav a:hover: before {

    width:100%;

}

</style>

<!doctype html>

<html lang="en">


<head>

    <link rel="stylesheet" href="create.css">

    <meta charset="utf-8">

    <title>Time Table</title>

</head>

<body>

<div class="form">

    <h1>Enter Data</h1>

    <form action="" method="post" align="center" id="form1">

        <label>ID</label>

        <input type="text" name="id" class="a" >

        <br>

        <label>Day</label>

        <input type="text" name="day">

        <br>

        <label>1st period</label>

        <input type="text" name="subject(1st)">

        <br>

        <label> 2nd period</label>

```

```

    <input type="text" name="subject(2nd)">
    <br>
    <label>3rd period</label>
    <input type="text" name="subject(3rd)">
    <br>
    <label>4th period</label>
    <input type="text" name="subject(4th)">
    <br>
    <label> Lunch</label>
    <input align="left" type="text" name="lunch">
    <br>
    <label>5th period</label>
    <input type="text" name="subject(5th)">
    <br>
    <label>6th period</label>
    <input type="text" name="subject(6th)">
    <br>
    <input type="submit" name="submit" value="Submit" class="btn btn-primary"
/>
</form>
</div>
<style>
.form {
    margin: 119px auto;
    width: 700px;
    padding: 1px 25px;
    background-color: white;

```

```

}

label{

    width : 100px;

    display:inline-block;

    color:white;

}

#form{

    border-radius : 10px;

    color: white;

}

</style>

</body>

</html>

<?php

//echo "asdasdasdaasd";

if(isset($_POST['submit']))

{

    include "dbConnect.php";

    $id= $_POST['id'];

    $day = $_POST['day'];

    $onep = $_POST['subject(1st)'];

    $twop = $_POST['subject(2nd)'];

    $threep = $_POST['subject(3rd)'];

    $lunch = $_POST['lunch'];

    $fourp = $_POST['subject(4th)'];

```



```

$fivep = $_POST['subject(5th)'];

$sixp = $_POST['subject(6th)'];


//echo $tname." ".$sname." ".$cname." ".$st." ".$set;

//echo "asdasdasdaasd";

$sql = "INSERT INTO teachertimetable(id,day,1p,2p,3p,lunch,4p,5p,6p) VALUES
('Sid', '$day', '$onep', '$twop', '$threep', '$lunch', '$fourp', '$fivep', '$sixp')";

if (mysqli_query($conn, $sql)) {

    echo "<script type='text/javascript'>

    alert('New record created successfully');

</script>" ;

}

else {

    echo "Error: " . $sql . "<br>" . mysqli_error($conn);

}

}

?>

<?php

include "dbconnect.php";

$sql = "SELECT * FROM teachertimetable";

$result = $conn->query($sql);

?>

<div>

    <h3 align="center"> TimeTable </h3>

    <div class="timetable" >

```

```

<table border="1" align="center" cellpadding="" cellspacing="2">
<tr>
    <th rowspan="2" width="1%" scope="col"> S.No </th>
    <th rowspan="2" width="6%" scope="col">Day</th>
    <th rowspan="2" width="14%" scope="col">9:00 - 10:00 am</th>
    <th width="16%" scope="col">10:00 - 11:00 am </th>
    <th width="14%"width="14%" scope="col">11:00 - 12:00 am </th>
    <th width="14%" scope="col"> 12:00 - 1:00 am </th>
    <th width="10%" scope="col">1:00 - 2:00 pm</th>
    <th width="16%" rowspan="2" scope="col">2:00 pm - 3:00 pm</th>
    <th width="24%" scope="col">3:00 - 4:00 am </th>
    <th width="16%" cellspacing="2" scope="col">EDIT </th>
    <th width="16%" cellspacing="2" scope="col">DELETE </th>

</tr>
</thead>
<tbody>
<?php
    if ($result->num_rows > 0) {
        //output data of each row
        while ($row = $result->fetch_assoc()) {
            ?>
            <tr>
                <td><?php echo $row['id']; ?></td>
                <td ><?php echo $row['day']; ?></td>
                <td ><?php echo $row['1p']; ?></td>
                <td ><?php echo $row['2p']; ?></td>

```

```

        <td ><?php echo $row['3p']; ?></td>

        <td ><?php echo $row['4p']; ?></td>

        <td ><?php echo $row['lunch']; ?></td>

        <td ><?php echo $row['5p']; ?></td>

        <td ><?php echo $row['6p']; ?></td>

        <td> <a href="up.php?sid=<?php echo $row['id']; ?>" >Edit</a> </td>

        <td><a href="delete.php?sid=<?php echo $row['id']; ?>" >Delete</a> </td>

    </tr>

    <?php
        }

    }

?>

</tbody>

</table>

</div>

```

- **View.php** (Display timetable)

```

<!DOCTYPE html>

<nav>

    <a href="dashboard.php" > Dashboard</a>

    <a href="dropdown.html">Generate </a>

    <a href="teachernames.php">Subject allocation</a>

    <a href="UserName.html">University detail</a>

    <a href="viewteachernames.php">Display teacher table </a>

</nav>

<style>

```

```

body{
    background-color: orange;
}
nav{
    width: 60%;
    display: flex;
    justify-content: space-around;
    background-color: white;
    height: 10%;
    width:100%;
}
nav a{
    text-decoration:none;
    text-transform:uppercase;
    color:#000;
    font-weight:900;
    font-size:17px;
    position:relative;
}
nav a: first-child {
    color:#4458dc;
}
nav a:before{
    content:"";
    position:absolute;
    top:110%;
    left:0;

```

```

width:0;

height:2px;

border-bottom:2px solid #4458dc;

transition:all 0.4s linear;
}

nav a:hover: before {

width:100%;

}

</style>

<?php
include "dbconnect.php";

$sql = "SELECT * FROM teachertimetable";
$result = $conn->query($sql);

?>

<!DOCTYPE html>

<html>

<head>

    <title>Display TimeTable</title>

    <link rel="stylesheet" href="">

</head>

<body>

    <style >

        .form li{

            display: inline;

            float: left;

            border: 1px solid #e7e7e7;

```

```

}
</style>

<br>

<br>

<h3 align="center"> TimeTable </h3>

```

```

    <div class="container">

<thead class="thead-dark">

<?

$name=$_REQUEST['University'];
$roll=$_REQUEST['dept'];
$category=$_REQUEST['semester'];

echo "<p><center> Jamia Millia Islamia ".$_REQUEST['university'];
echo"<br>";
echo " Computer Engg ".$_REQUEST['department'];
echo"<br>";
echo " 6th Semester".$_REQUEST['semester'];

?>

<br>

<br>

<table border="1" align="center" cellpadding="" cellspacing="2">

<tr>

<th rowspan="2" width="1%" scope="col"> S.No </th>

<th rowspan="2" width="6%" scope="col">Day</th>

<th rowspan="2" width="14%" scope="col">9:00 - 10:00 am</th>

```

```

        <th width="16%" scope="col">10:00 - 11:00 am </th>
        <th width="14%"width="14%" scope="col">11:00 - 12:00 am </th>
        <th width="14%" scope="col"> 12:00 - 1:00 am </th>
        <th width="10%" scope="col">1:00 - 2:00 pm</th>
        <th width="16%" rowspan="2" scope="col">2:00 pm - 3:00 pm</th>
        <th width="24%" scope="col">3:00 - 4:00 am </th>
    </tr>
</thead>
<tbody>
    <?php
        if ($result->num_rows > 0) {
            //output data of each row
            while ($row = $result->fetch_assoc()) {
                ?>
    <tr>
        <td align="center"><?php echo $row['id']; ?></td>
        <td align="center" ><?php echo $row['day']; ?></td>
        <td align="center" ><?php echo $row['1p']; ?></td>
        <td align="center"><?php echo $row['2p']; ?></td>
        <td align="center"><?php echo $row['3p']; ?></td>
        <td align="center" ><?php echo $row['4p']; ?></td>
        <th align="center"><?php echo $row['lunch']; ?></th>
        <td align="center"><?php echo $row['5p']; ?></td>
        <td align="center"><?php echo $row['6p']; ?></td>
    </tr>
    <?php
        }

```

```

        }

        ?>

    </tbody>

</table>

</div>

<html lang="en">

<head>

    <link rel="stylesheet" href="">

<?php
include "dbconnect2.php";

$sql = "SELECT * FROM teacher";

$result = $conn->query($sql);

?>

<br>

<br>

    <h4 >Teachernames and Subject </h4>

    <table border="1" >

        <tr>

            <th rowspan="1" width="1%" scope="col">Name</th>

            <th rowspan="1" width="1%" scope="col">Subject</th>

        </tr>

    </thead>

    <tbody>

        <?php

            if ($result->num_rows > 0) {

                //output data of each row

```



```

        while ($row = $result->fetch_assoc()) {
            ?>
            <tr>
                <td align="center"><?php echo $row['name']; ?></td>
                <td align="center" ><?php echo $row['subject']; ?></td>
            </tr>
        <?php
            }
        }
    ?>
</tbody>
</table>
</div>
</body>
</body>
</html>

```

- Up.php (Update page)

```

<!DOCTYPE html>
<nav>
    <a href="create.php" > Create</a>
    <a href="teachernames.php">Subject allocation</a>
    <a href="UserName.html">University detail</a>
    <a href="holidays.php">Holiday schedule </a>
    <a href="view.php">Display</a>
</nav>

```

```
<style>

  body{

    background-color: orange;


  }
nav{

  width: 60%;

  display: flex;

  justify-content: space-around;

  background-color: white;

  height: 10%;

  width:100%;

  }

nav a{

  text-decoration:none;

  text-transform:uppercase;

  color:#000;

  font-weight:900;

  font-size:17px;

  position:relative;

}

nav a: first-child {

  color:#4458dc;

}

nav a:before{

  content:"";

  position:absolute;
```

```

top:110%;

left:0;

width:0;

height:2px;

border-bottom:2px solid #4458dc;

transition:all 0.4s linear;

}

nav a:hover: before {

width:100%;

}

</style>

<?php

$conn = mysqli_connect('localhost', 'root', 'mysql', 'timetable2');

$stu_id=$_GET['sid'];

$sql="SELECT *FROM teachertimetable WHERE id=$stu_id";

$result=mysqli_query($conn,$sql) ;

if (mysqli_num_rows($result) > 0) {

                                while ($row =mysqli_fetch_assoc($result)) {

?>

</html>

<br>

<div class="form">

<form action="updatedata.php?sid=<?php echo $row['id']; ?>" method="post"
align="center">

        <label>ID</label> <br>

```

```

<input type="text" name="id" value="<?php echo $row['id']; ?>">
<br>
<label>Day</label> <br>
<input type="text" name="day" value="<?php echo $row['day']; ?>">
<input type="hidden" name="id" value="<?php echo $row['id']; ?>">
<br>
<label>Subject(1st)/time</label> <br>
<input type="text" name="subject(1st)" value="<?php echo $row['1p']; ?>">
<br>
<label>Subject(2nd)/time</label> <br>
<input type="text" name="subject(2nd)" value="<?php echo $row['2p'];
?>">
<br>

<label>Subject(3rd)/time</label> <br>
<input type="text" name="subject(3rd)" value="<?php echo $row['3p']; ?>">
<br>
<label>Subject(4th)/time</label> <br>
<input type="text" name="subject(4th)" value="<?php echo $row['4p']; ?>">
<br>
<label>Lunch</label><br>
<input type="text" name="lunch" value="<?php echo $row['lunch']; ?>" >
<br>
<label>Subject(5th)/time</label><br>
<input type="text" name="subject(5th)" value="<?php echo $row['5p']; ?>">
<br>
<label>Subject(6th)/time</label><br>

```

```

        <input type="text" name="subject(6th)" value="<?php echo $row['6p']; ?>">
        <br>
        <button type="submit" name="update">Update</button>
    </form>
</div>
<?php
}
}
?>

</body>

</html>

```

- **Delete.php** (Delete record of timetable)

```

<!DOCTYPE html>

<nav>

    <a href="dashboard.php" > Dashboard</a>

    <a href="dropdown.html">Generate </a>

    <a href="teachernames.php">Subject allocation</a>

    <a href="UserName.html">University detail</a>

    <a href="viewteachernames.php">Display teacher table </a>

</nav>

<style>

body{

    background-color: orange;

}

nav{

```

```

width: 60%;
display: flex;
justify-content: space-around;
background-color: white;
height: 10%;
width:100%;
}
nav a{
text-decoration:none;
text-transform:uppercase;
color:#000;
font-weight:900;
font-size:17px;
position:relative;
}
nav a: first-child {
color:#4458dc;
}
nav a:before{
content:'';
position:absolute;
top:110%;
left:0;
width:0;
height:2px;
border-bottom:2px solid #4458dc;
transition:all 0.4s linear;

```

```

}

nav a:hover: before {

    width:100%;

}

</style>

<?php

$conn = mysqli_connect('localhost', 'root', 'mysql', 'timetable2');

$stu_id=$_GET['sid'];

$sql="SELECT *FROM teachertimetable WHERE id=$stu_id";

$result=mysqli_query($conn,$sql) ;

if (mysqli_num_rows($result) > 0) {

            while ($row =mysqli_fetch_assoc($result)) {

?>

</html>

<head>

    <link rel="stylesheet" href="">

</head>

<div class="form">

<form action="deletedata.php?sid=<?php echo $row['id']; ?>" method="post"
align="center">

    ID : <br>

    <input type="text" name="id" value="<?php echo $row['id']; ?>">

    <br>

    Day : <br>

    <input type="text" name="day" value="<?php echo $row['day']; ?>">

    <input type="hidden" name="id" value="<?php echo $row['id']; ?>">

```

```

<br>
subject(1st)/time : <br>
<input type="text" name="subject(1st)" value="<?php echo $row['1p']; ?>">
<br>
subject(2nd)/time : <br>
<input type="text" name="subject(2nd)" value="<?php echo $row['2p'];
?>">
<br>
subject(3rd)/time : <br>
<input type="text" name="subject(3rd)" value="<?php echo $row['3p']; ?>">
<br>
Lunch : <br>
<input type="text" name="Lunch" value="<?php echo $row['lunch']; ?>" >
<br>
subject(4th)/time : <br>
<input type="text" name="subject(4th)" value="<?php echo $row['4p']; ?>">
<br>
subject(5th)/time : <br>
<input type="text" name="subject(5th)" value="<?php echo $row['5p']; ?>">
<br>
subject(6th)/time : <br>
<input type="text" name="subject(6th)" value="<?php echo $row['6p']; ?>">
<br>
<button type="submit" name="delete">Delete</button>
</form>
</div>
<?php

```



```

}
}
?>

</body>

</html>

```

teacherNames.php (Assign subjects to teachers)

```

<!DOCTYPE html>

<nav>

    <a href="dashboard.php" > Dashboard</a>

    <a href="dropdown.html">Generate </a>

    <a href="teachernames.php">Subject allocation</a>

    <a href="UserName.html">University detail</a>

    <a href="viewteachernames.php">Display teacher table </a>

    <a href="view.php">Display</a>

</nav>

<style>
nav{
    width: 60%;
    display: flex;
    justify-content: space-around;
    background-color: white;
    height: 10%;
    width:100%;
}

```

```
nav a{
    text-decoration:none;
    text-transform:uppercase;
    color:#000;
    font-weight:900;
    font-size:17px;
    position:relative;
}
nav a: first-child {
    color:#4458dc;
}
nav a:before{
    content:'';
    position:absolute;
    top:110%;
    left:0;
    width:0;
    height:2px;
    border-bottom:2px solid #4458dc;
    transition:all 0.4s linear;
}
nav a:hover: before {
    width:100%;
}

</style>
```

```

<!doctype html>

<html lang="en">

  <head>

    <link rel="stylesheet" href="create.css">

    <meta charset="utf-8">

    <title>Holidays</title>

  </head>

  <body>

    <div class="form">

      <h1> Enter Teacher's Detail </h1>

      <form action="" method="post" align="center" id="form1">

        <label> Name</label>

        <input type="text" name="name" class="a" >

        <br>

        <label>Subject</label>

        <input type="text" name="subject">

        <br>

        <input type="submit" name="submit" value="Submit" class="btn btn-primary"
/>

      </form>

    </div>

    <style>

    label{

      width : 100px;

      display:inline-block;

      color:white;

    }

```

```

#form{
    border-radius : 10px;
    color: white;
}

</style>

</body>

</html>

<?php
//echo "asdasdasdaasd";
if(isset($_POST['submit']))
{
    include "dbConnect2.php";

    $name= $_POST['name'];
    $subject = $_POST['subject'];
    //echo $name." ".$sname." ".$sname." ".$st." ".$set;
    //echo "asdasdasdaasd";
    $sql = "INSERT INTO teacher(name,subject) VALUES ('$name','$subject')";
    if (mysqli_query($conn, $sql)) {
        echo "<script type='text/javascript'>
        alert('Subject allocated successfully');
        </script>" ;
    }
    else {
        echo "Error: " . $sql . "<br>" . mysqli_error($conn);
    }
}

```

5.2 INTERFACES IMPLEMENTATION:-

- .Login Form, Site Controller and User class used for login interface.
- .Dashboard Controller class used for dashboard Interface.
- .User Controller class used all the interfaces with CRUD operators.
- .Subject classes used to Create Update , Delete, Manage and View Timetable.

CHAPTER -6

OUTPUT AND RESULT

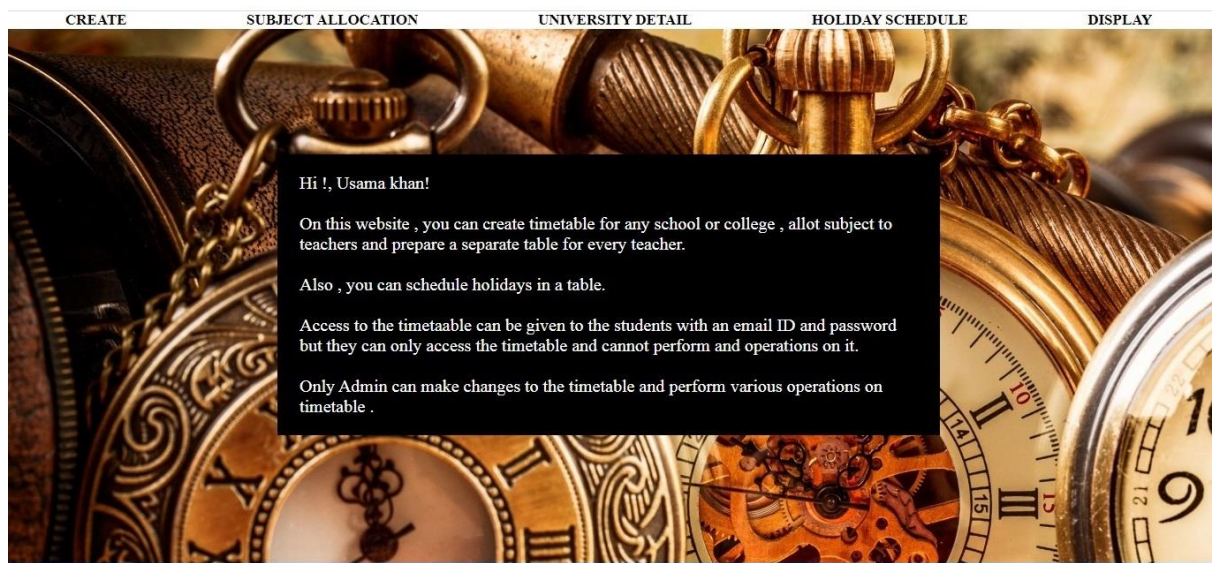
6.1 OUTPUT:-



[Student Login](#)

Admin Login

Don't have an account? [Register Now](#)



DASHBOARD	SUBJECT ALLOCATION	UNIVERSITY DETAIL	HOLIDAY SCHEDULE	DISPLAY	LOGOUT
-----------	--------------------	-------------------	------------------	---------	--------

Enter Data

ID	<input type="text"/>
Day	<input type="text"/>
1st period	<input type="text"/>
2nd period	<input type="text"/>
3rd period	<input type="text"/>
4th period	<input type="text"/>
Lunch	<input type="text"/>
5th period	<input type="text"/>
6th period	<input type="text"/>
<input type="button" value="Submit"/>	

[apps](#)
[calendar](#)
[youtube](#)
[maps](#)
[login control v3.0](#)
[newing.txt](#)

[DASHBOARD](#)
[GENERATE](#)
[SUBJECT ALLOCATION](#)
[UNIVERSITY DETAIL](#)
[DISPLAY TEACHER TABLE](#)

TimeTable

Jamia Millia Islamia
Computer Engg
6th Semester

S.No	Day	9:00 - 10:00 am	10:00 - 11:00 am	11:00 - 12:00 am	12:00 - 1:00 am	1:00 - 2:00 pm	2:00 pm - 3:00 pm	3:00 - 4:00 am
1	Mon	Enterprenuer	Enterprenuer	Database	Database	Break	Software	Software
2	Tue	Web	CSS	AI	Csharp	Break	Software	Hardware
3	Wed	MySql	MySql	Hardware	Hardware	Break	--	--

Teachernames and Subject

Name	Subject
Arif	CSS , AI
Ambreen	database , MySql
Ashfaq	Csharp , IT

[DASHBOARD](#)
[GENERATE](#)
[SUBJECT ALLOCATION](#)
[DISPLAY TEACHER TABLE](#)
[DISPLAY HOLIDAYS](#)

Enter Data

Date

Event

DASHBOARD	GENERATE	SUBJECT ALLOCATION	ALLOCATION	DISPLAY TEACHER TABLE	DISPLAY														
Holidays																			
<table><tr><th>Date</th><th>Event</th></tr><tr><td>17-06-2021</td><td>Foundation day</td></tr><tr><td>13-03-2021</td><td>Diwali</td></tr><tr><td>13-04-2021</td><td>diwali 2</td></tr><tr><td>18-02-2021</td><td>Eid23</td></tr><tr><td>18-02-2021</td><td>Eid23</td></tr><tr><td>1-04-2021</td><td>Bakhra-Eid</td></tr></table>						Date	Event	17-06-2021	Foundation day	13-03-2021	Diwali	13-04-2021	diwali 2	18-02-2021	Eid23	18-02-2021	Eid23	1-04-2021	Bakhra-Eid
Date	Event																		
17-06-2021	Foundation day																		
13-03-2021	Diwali																		
13-04-2021	diwali 2																		
18-02-2021	Eid23																		
18-02-2021	Eid23																		
1-04-2021	Bakhra-Eid																		

CHAPTER -7

CONCLUSION

7.1 CONSLSION:-

The application will make the procedure of time table generation easier consistently which may otherwise need to be done using spread sheet manually which might lead to constraints problem that are strenuous to establish when time table is generated physically. The purpose of the algorithm is to generate a timetable schedule mechanically. The algorithm includes many techniques, aimed at improving the efficiency of the search operation. Effective time management is what makes success possible.

CHAPTER – 8

REFERENCES

8.1 REFERENCES:-

1. Ashraf B. El-Sisi, Hamdy M. Mousa, "Design and Implementation of Course Timetabling System Based on Genetic Algorithm", IEEE 2013.
2. H Turabieh, Salwani Abdullah, "Generating University Course Timetable Using Genetic Algorithms and Local Search", IEEE 2008.
3. SuryantiAwang, MohamadFairol, Marzuki Khalid, RubiyahYusof, "Generating University Timetable by using a Combination of Heuristic and Random Selection", 2009 IEEE.
4. ShitalShiral, ShitalSurwase, AkshadaParche, SayaliShewale, Prof. A.V.Kanade, "Web Based Application for College Automation System", International Journal of Innovative Research in Computer and Communication Engineering Vol. 4, Issue 3, March 2016.
5. PriyankaKakde, AnujaChowdhary, ShrutiDhoke, Sonali Ingle, RupalRushiya, Dinesh Gawande, "TIMETABLE GENERATION SYSTEM", IJCSMC, Vol. 3, Issue. 2, February 2014.
6. MilindDeshkar, Mayur Kale, MashkurDeshmukh, MandarAney, ArpitaGhom, "TIME TABLE AT A CLICK", IRJET Volume 03 Issue: 03 Mar-2016.
7. Manisha P. Pai, Anirudha Nanda, and AbhijeetGole, "An Algorithm to Automatically Generate Schedule for School
8. Lectures Using a Heuristic Approach", International Journal of Machine Learning and Computing, August 2012.