# ABSTRACT – TIME TABLE AND SYLLABUS MANAGEMENT

CREATED BY : 21BD1A0561, 21BD1A056E , 21BD1A056H, 21BD1A056J, 21BD1A057U

The proposed project is a comprehensive Student and Faculty Management System designed to streamline and optimize the administrative tasks and academic processes in an educational institution. The system offers four distinct login roles: Student, Faculty, Admin, and Director, each with specific functionalities built for their needs.

Students logging in are provided with two main options: access their class timetable and view the syllabus for each subject. Additionally, they can view the names of the faculty assigned to each subject.

Faculty members, upon login, are presented with options to view their class timetables and access the syllabus for the subjects they teach. They can also update the syllabus as needed, ensuring seamless communication with students regarding the course content.

Administrators have elevated privileges and responsibilities, enabling them to manage various aspects of the system. They can insert, delete, and modify the class timetables, faculty details, and student information. Furthermore, the admin has the authority to manage other staff details, such as Directors and HODs, fostering efficient organization management.

The Director login provides a top-level view of the system, granting access to all class timetables across the institution. Moreover, the Director can oversee the current syllabus status for all subjects in all classes, offering valuable insights for academic planning and progress evaluation.

Overall, the Student and Faculty Management System streamlines academic operations, enhances communication between stakeholders, and empowers administrators to efficiently manage the institution's educational processes. It facilitates a conducive learning environment and ensures that students, faculty, and administrative staff can collaboratively contribute to the institution's success.

**HOME PAGE:**

<!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>test</title>

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

</head>

<body>

<div class="title">

<img src="kmit logo.gif" alt="Kmit Logo" id="logo" />

<h1>SYLLABUS MANAGER</h1>

<p></p>

</div>

<div class="buttons">

<button type="button" id="std">

<a href="index.jsp">Student Login</a>

</button>

<button type="button" id="fac"><a href="">Faculty Login</a></button>

<button type="button" id="dir"><a href="">Director Login</a></button>

<button type="button" id="adm"><a href="">Admin Login</a></button>

</div>

<footer>

<div id="abt">

<ul>

<li><a href="#">Home</a></li>

<li><a href="#">About</a></li>

<li><a href="#">Contact</a></li>

<li><a href="#">Services</a></li>

</ul>

</div>

<p id="foot">Copyright 2021 KMIT. All Rights Reserved</p>

</footer>

</body>

</html>

**STUDENT LOGIN:**

<%--

if(session.getAttribute("uname")==null){

response.sendRedirect("StudentLogin.jsp");

}

--%>

<!DOCTYPE html>

<html>

<head>

<title>Student Login</title>

<link rel="stylesheet" type="text/css" href="styles.css" />

<style></style>

</head>

<body>

<input type="hidden" id="status" value="<%= request.getAttribute("status") %>">

<div class="container">

<h1>Welcome, Student!</h1>

<form action="StudentloginServlet" method="post">

<input type="text" placeholder="Username" required name="name" />

<input type="password" placeholder="Password" required name="pass" />

<button type="submit">Login</button>

</form>

</div>

<div class="images-container">

<img src="digital-india-microsoft.jpeg.jpg" alt="Image 1" />

<img src="ece-group-photo\_small.jpg" alt="Image 2" />

</div>

<div class="images-container">

<img src="fs-cs-lab.jpg" alt="Image 3" />

<img src="kmit-radio-team.jpg" alt="Image 4" />

</div>

<%

//String sec =request.getParameter("section");

//switch(sec)

//{

//case "A":

//}

%>

</body>

</html>

**STUDENT LOGIN SERVLET:**

package com.project.studentlogin;

import java.util.\*;

import java.io.\*;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class StudentloginServlet:

\*/

@WebServlet("/StudentloginServlet")

public class StudentloginServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

final String password="kmit123$";

private final HashMap<String, String> students = new HashMap<>();

public StudentloginServlet() {

try

{

BufferedReader reader = new BufferedReader(new FileReader("C:\\Users\\D Shashank\\Desktop\\02-HTML-Fundamentals\\Java Project\\info\\Student info.txt"));

String currentLine = reader.readLine();

while (currentLine != null)

{

String[] words = currentLine.split("\t");

// System.out.println(words[0]+" "+words[1]);

students.put(words[0],words[1]);

currentLine = reader.readLine();

}

//reader.close();

}

catch (IOException e)

{

e.printStackTrace();

}

}

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

String uname = request.getParameter("name");

String upass = request.getParameter("pass");

//String section="";

if (students.containsKey(uname) && upass.equals("kmit123$")) {

request.getSession().setAttribute("userRole", "faculty");

String section=students.get(uname);

request.getSession().setAttribute("uname", uname);

request.getSession().setAttribute("section", section);

//request.getSession().setAttribute("students", students);

response.sendRedirect("studentOptions.jsp");

// PrintWriter out = response.getWriter();

// out.print(section);

} else {

response.sendRedirect("index.jsp?loginFailed=true");

}

}

}

**STUDENT OPTIONS JSP**

<!DOCTYPE html>

<html>

<head>

<title>Student Options</title>

<link rel="stylesheet" type="text/css" href="options.css" />

</head>

<body>

<h1>Welcome!</h1>

<button type="button">

<a href="TimetableServlet">View Timetable</a>

</button>

<button type="button">

<a href="SyllabusServlet">View Syllabus</a>

</button>

</body>

</html>

**STUDENTTIMETABLE SERVLET**

package com.project.studentlogin;

import java.io.IOException;

import java.io.PrintWriter;

import java.nio.file.Files;

import java.nio.file.Paths;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/TimetableServlet")

public class TimetableServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

String studentId = (String) request.getSession().getAttribute("uname");

String sec = (String) request.getSession().getAttribute("section");

if (studentId == null) {

response.sendRedirect("index.jsp");

return;

}

switch(sec)

{

case "A":

String filePath = "C:\\Users\\D Shashank\\Desktop\\Timetables\\CSE A.pdf";

response.setContentType("application/pdf");

response.setHeader("Content-Disposition", "inline; filename=CSE A.pdf");

Files.copy(Paths.get(filePath), response.getOutputStream());

break;

case "B":

String filePath1 = "C:\\Users\\D Shashank\\Desktop\\Timetables\\CSE B.pdf";

response.setContentType("application/pdf");

response.setHeader("Content-Disposition", "inline; filename=CSE B.pdf");

Files.copy(Paths.get(filePath1), response.getOutputStream());

break;

case "C":

String filePath2 = "C:\\Users\\D Shashank\\Desktop\\Timetables\\CSE C.pdf";

response.setContentType("application/pdf");

response.setHeader("Content-Disposition", "inline; filename=CSE C.pdf");

Files.copy(Paths.get(filePath2), response.getOutputStream());

break;

case "D":

String filePath3 = "C:\\Users\\D Shashank\\Desktop\\Timetables\\CSE D.pdf";

response.setContentType("application/pdf");

response.setHeader("Content-Disposition", "inline; filename=CSE D.pdf");

Files.copy(Paths.get(filePath3), response.getOutputStream());

break;

case "E":

String filePath4 = "C:\\Users\\D Shashank\\Desktop\\Timetables\\CSE E.pdf";

response.setContentType("application/pdf");

response.setHeader("Content-Disposition", "inline; filename=CSE E.pdf");

Files.copy(Paths.get(filePath4), response.getOutputStream());

break;

case "F":

String filePath5 = "C:\\Users\\D Shashank\\Desktop\\Timetables\\CSE F.pdf";

response.setContentType("application/pdf");

response.setHeader("Content-Disposition", "inline; filename=CSE F.pdf");

Files.copy(Paths.get(filePath5), response.getOutputStream());

break;

case "G":

String filePath6 = "C:\\Users\\D Shashank\\Desktop\\Timetables\\CSE G.pdf";

response.setContentType("application/pdf");

response.setHeader("Content-Disposition", "inline; filename=CSE G.pdf");

Files.copy(Paths.get(filePath6), response.getOutputStream());

break;

default:

PrintWriter out = response.getWriter();

out.print("Sorry! The given roll no. is not present.");

break;

}

}

}

**STUDENT SYLLABUS SERVLET**

package com.project.studentlogin;

import java.io.IOException;

import java.nio.file.Files;

import java.nio.file.Paths;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/SyllabusServlet")

public class SyllabusServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

String studentId = (String) request.getSession().getAttribute("uname");

if (studentId == null) {

response.sendRedirect("index.jsp");

return;

}

// Assuming facultySyllabus.pdf is the name of the PDF file for faculty's syllabus

String filePath = "C:\\Users\\D Shashank\\Desktop\\Timetables\\syllabus.pdf";

response.setContentType("application/pdf");

response.setHeader("Content-Disposition", "inline; filename=syllabus.pdf");

Files.copy(Paths.get(filePath), response.getOutputStream());

}

}

**FACULTY LOGIN:**

package project.FacultyManager;

import java.util.HashMap;

public class FacultyManager {

private static HashMap<String, Faculty> facultyDetails = new HashMap<>();

static {

facultyDetails.put("5001", new Faculty("5001", "kmit", "A"));

facultyDetails.put("5002", new Faculty("5002", "kmit", "A"));

facultyDetails.put("5003", new Faculty("5003", "kmit", "A"));

facultyDetails.put("5004", new Faculty("5004", "kmit", "A"));

facultyDetails.put("5005", new Faculty("5005", "kmit", "D"));

facultyDetails.put("5006", new Faculty("5006", "kmit", "D"));

facultyDetails.put("5007", new Faculty("5007", "kmit", "D"));

facultyDetails.put("5008", new Faculty("5008", "kmit", "F"));

facultyDetails.put("5009", new Faculty("5009", "kmit", "F"));

facultyDetails.put("5010", new Faculty("5010", "kmit", "G"));

facultyDetails.put("5011", new Faculty("5011", "kmit", "G"));

facultyDetails.put("5012", new Faculty("5012", "kmit", "G"));

facultyDetails.put("5013", new Faculty("5013", "kmit", "A"));

facultyDetails.put("5014", new Faculty("5014", "kmit", "B"));

facultyDetails.put("5015", new Faculty("5015", "kmit", "C"));

facultyDetails.put("5016", new Faculty("5016", "kmit", "D"));

facultyDetails.put("5017", new Faculty("5017", "kmit", "E"));

facultyDetails.put("5018", new Faculty("5018", "kmit", "F"));

facultyDetails.put("5019", new Faculty("5019", "kmit", "G"));

facultyDetails.put("5020", new Faculty("5020", "kmit", "A"));

facultyDetails.put("5021", new Faculty("5021", "kmit", "B"));

facultyDetails.put("5022", new Faculty("5022", "kmit", "C"));

facultyDetails.put("5023", new Faculty("5023", "kmit", "D"));

facultyDetails.put("5024", new Faculty("5024", "kmit", "E"));

facultyDetails.put("5025", new Faculty("5025", "kmit", "F"));

facultyDetails.put("5026", new Faculty("5026", "kmit", "G"));

facultyDetails.put("5027", new Faculty("5027", "kmit", "A"));

facultyDetails.put("5028", new Faculty("5028", "kmit", "B"));

facultyDetails.put("5029", new Faculty("5029", "kmit", "C"));

facultyDetails.put("5030", new Faculty("5030", "kmit", "D"));

facultyDetails.put("5031", new Faculty("5031", "kmit", "E"));

facultyDetails.put("5032", new Faculty("5032", "kmit", "F"));

facultyDetails.put("5033", new Faculty("5033", "kmit", "G"));

facultyDetails.put("5034", new Faculty("5034", "kmit", "A"));

facultyDetails.put("5035", new Faculty("5035", "kmit", "B"));

facultyDetails.put("5036", new Faculty("5036", "kmit", "C"));

facultyDetails.put("5037", new Faculty("5037", "kmit", "D"));

facultyDetails.put("5038", new Faculty("5038", "kmit", "E"));

facultyDetails.put("5039", new Faculty("5039", "kmit", "F"));

facultyDetails.put("5040", new Faculty("5040", "kmit", "G"));

}

public static Faculty getFacultyById(String facultyId) {

return facultyDetails.get(facultyId);

}

static class Faculty {

private String id;

private String password;

private String section;

public Faculty(String id, String password, String section) {

this.id = id;

this.password = password;

this.section = section;

}

public String getId() {

return id;

}

public String getPassword() {

return password;

}

public String getSection() {

return section;

}

}

}

**FACULTYSYLLABUSSERVLET**

package project;

// FacultySyllabusServlet.java

import java.io.IOException;

import java.nio.file.Files;

import java.nio.file.Paths;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/FacultySyllabusServlet")

public class FacultySyllabusServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

String facultyId = (String) request.getSession().getAttribute("userId");

String filePath ="C:\\Users\\DELL\\Downloads\\syllabus.pdf";

response.setContentType("application/pdf");

response.setHeader("Content-Disposition", "inline; filename=syllabus.pdf");

Files.copy(Paths.get(filePath), response.getOutputStream());

}

}

**FACULTYTIMETABLE SERVLET**

package project;

import java.io.IOException;

import java.nio.file.Files;

import java.nio.file.Paths;

import java.util.HashMap;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

@WebServlet("/FacultyTimetableServlet")

public class FacultyTimetableServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

HttpSession session = request.getSession();

String section = (String) session.getAttribute("section");

if (section == null) {

response.sendRedirect("facultyLogin.jsp");

return;

}

String pdfFilePath = getTimetablePdfPathForSection(section);

response.setContentType("application/pdf");

response.setHeader("Content-Disposition", "inline; filename=syllabus.pdf");

Files.copy(Paths.get(pdfFilePath), response.getOutputStream());

}

private String getTimetablePdfPathForSection(String section) {

HashMap<String, String> sectionPdfMap = new HashMap<>();

sectionPdfMap.put("A", "C:\\Users\\DELL\\Downloads\\CSE A.pdf");

sectionPdfMap.put("B", "C:\\Users\\DELL\\Downloads\\CSE B.pdf");

sectionPdfMap.put("C", "C:\\Users\\DELL\\Downloads\\CSE C.pdf");

sectionPdfMap.put("D", "C:\\Users\\DELL\\Downloads\\CSE D.pdf");

sectionPdfMap.put("E", "C:\\Users\\DELL\\Downloads\\CSE E.pdf");

sectionPdfMap.put("F", "C:\\Users\\DELL\\Downloads\\CSE F.pdf");

sectionPdfMap.put("G", "C:\\Users\\DELL\\Downloads\\CSE G.pdf");

return sectionPdfMap.get(section);

}

}

**FACULTYLOGINSERVLET**

package project.FacultyManager;

import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

@WebServlet("/FacultyLoginServlet")

public class FacultyLoginServlet extends HttpServlet {

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

String facultyId = request.getParameter("username");

String password = request.getParameter("password");

FacultyManager.Faculty faculty = FacultyManager.getFacultyById(facultyId);

if (faculty != null && faculty.getPassword().equals(password)) {

HttpSession session = request.getSession();

session.setAttribute("facultyId", faculty.getId());

session.setAttribute("section", faculty.getSection());

response.sendRedirect("facultyOptions.jsp");

} else {

response.sendRedirect("facultyLogin.jsp?loginFailed=true");

}

}

}

**FACULTYOPTIONS**

<!DOCTYPE html>

<html>

<head>

<title>Error</title>

</head>

<body>

<h1>Oops! Something went wrong.</h1>

<p>The timetable for the selected section is not available.</p>

<p>Please try again later or contact the administrator.</p>

</body>

</html>

<!DOCTYPE html>

<html>

<head>

<title>Faculty Login</title>

<link rel="stylesheet" type="text/css" href="styles.css">

</head>

<body>

<h1>Faculty Login</h1>

<form action="FacultyLoginServlet" method="post">

<label for="username">Username:</label>

<input type="text" id="username" name="username"><br>

<label for="password">Password:</label>

<input type="password" id="password" name="password"><br>

<input type="submit" value="Login">

</form>

</body>

</html>

<!DOCTYPE html>

<html>

<head>

<title>Faculty Options</title>

<link rel="stylesheet" type="text/css" href="styles1.css">

</head>

<body>

<h1>Welcome, Faculty!</h1>

<!-- In facultyOptions.jsp -->

<a href="FacultyTimetableServlet?facultyId=${facultyId}&section=${section}">View Timetable</a>

<a href="FacultySyllabusServlet">View Syllabus</a>

</body>

</html>