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PROJECT REPORT DOCUMENTATION

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GROUP: 6

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Project Report Documentation

1.1 User Requirements

• Registration page

• Accepts login id, password and lecturer's information into database

Login page

- Validate login id and password in the database.
- Give access to the lecturer page for lecturers.
- Give access to the officer page for officers.

Lecturer page

- Able to access grant information and submit progress
- Able to access lecturer information.
- Submit progress for their grant

Officer page

- Able to access currently ongoing grant's information.
- o Can add a new grant for a lecturer.
- Can update the due date of each grant.
- Can delete grants that have errors.
- Can search for specific grants.
- Can access the information of the grant's owner.
- Can sort the grant according to the grant owner,grant id, type, lecturer id and due date

1.2 ERD, Relation and Normalization

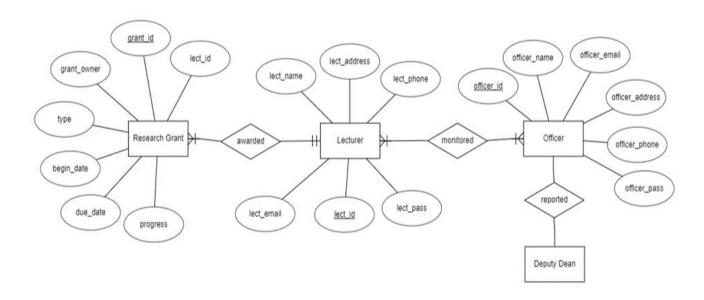


Figure 1.2.1 ERD of Grant Management System

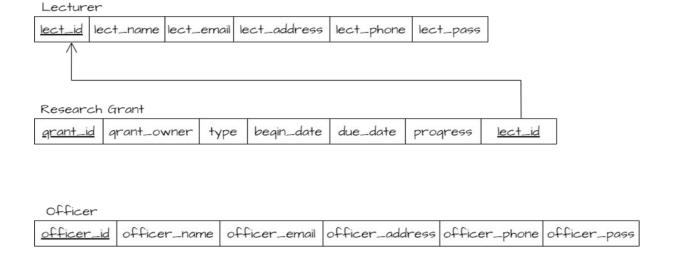


Figure 1.2.2 Relation of Grant Management System

Normalization

• First Normal Form

Grant (<u>lect_id</u>, <u>grant_id</u>, lect_name, lect_address, lect_phone, lect_email, lect_pass, grant_owner, type, begin_date, due_date, progress)

Officer (officer id, officer name, officer address, officer phone, officer email, officer pass

Second Normal Form

Lecturer (<u>lect id</u>, lect name, lect email, lect address, lect phone, lect pass)

Officer (officer id, officer name, officer email, officer address, officer phone, officer pass)

ResearchGrant (grant_id, lect_id, grant_owner, type, begin_date, due_date, progress)

• Third Normal Form

Lecturer (<u>lect id</u>, lect name, lect email, lect address, lect phone, lect pass)

Officer (officer id, officer name, officer email, officer address, officer phone, officer pass)

ResearchGrant (grant id, lect id, grant owner, type, begin date, due date, progress)

GrantProgression (progress, begin date, due date)

1.3 A web-based database application

Sign Up

Regarding the Sign Up function, we mainly provide a registration function for lecturers, that is, to lecturer sign up. In addition, the officer of this system can register directly from the database. In the sign up interface, the content that the user needs to input includes: staff ID, full name, email address, address, mobile phone number, and password.

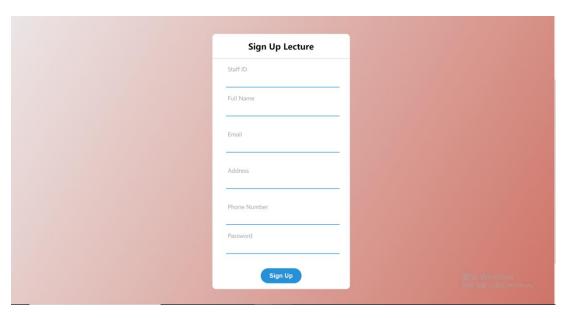


Figure 1.3.1 Lecture Sign up Page

The above information is required, and the user can register successfully only after filling in all the information and clicking the sign up button. Sign up page will be automatically redirected to the lecturer login page, which means the registration is successful. At this point, the registration is complete.

Lecturer Page

The Lecture page is accessible only to lecturers who have registered with the appropriate database. After the user enters their right login credentials on the login page, they are redirected to the lecturer page.

On the lecturer page, you'll find a complete collection of data about the lecturer, including their staff ID, full name, address, email address, and phone number.



Figure 1.3.2 Lecutre Page Top Part

The data on this page is synchronized with the database that was created on the previous page. As an illustration, the data for StaffID 106 and full name MUHAMMAD AFIQ BIN ZOLKARNAIN is identical to the SQL data below:

| | ♦ LECT_ID | LECT_NAME | | | ↓ LECT_PHONE | LECT_PASS |
|---|-----------|-----------------------------------|------------------------|--|--------------|-----------|
| 1 | 105 | HU SIHAN | sihan@gmail.com | Shanghai, China | 0126985487 | sihan |
| 2 | 103 | AHMAD AZRIEL BIN HAFNY | hensemgei@gmail.com | Jalan Cicawi, Kota Damansara, Selangor | 999 | azriel |
| 3 | 102 | MUHAMMAD AZMAN BIN HABEEB MOHAMED | azman@gmail.com | Jalan Nuri, Kota Damansara, Selangor | 01972491619 | azman |
| 4 | 104 | AIMAN FARHAN BIN AMIN | aiman@gmail.com | Kunak, Sabah | 0196587458 | aiman |
| 5 | 101 | Yuan Liang | liang@gmail.com | Shan Xi, China | 0196548957 | liang |
| 6 | 106 | MUHAMMAD AFIQ BIN ZOLKARNAIN | afiq.zo12013@gmail.com | Melaka | 0138006570 | afiq |

Lect_ID 106 -

| - | | | A1.444.4FFA |
|---|----------------------------------|-------------------------------|------------------|
| 0 | 106 MUHAMMAD AFIQ BIN ZOLKARNAIN | afiq.zol2013@gmail.com Melaka | 0138006570 aiiq |

There are three (3) sections at the bottom of the lecturer page titled Progress 1, Progress 2, and Close Project. Lecturers can add or update their grant submissions in the next progress. All files entered in this part will be accessible to officers for inspection.



Figure 1.3.3 Lecture Page Progress Part

As for the whole view of Lecturer page:

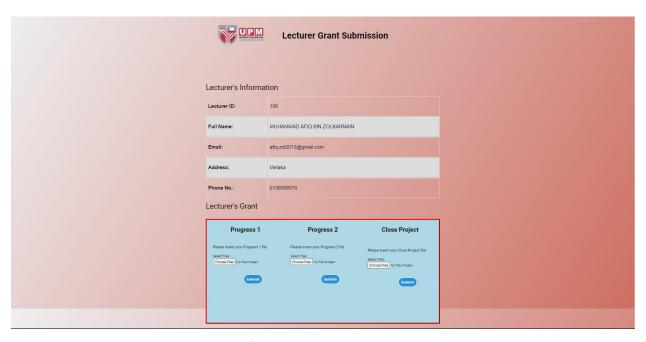


Figure 1.3.4 Lecture Page

Officer Page

The Officer page is accessible only to one officer registered with the appropriate database. After the user enters their proper login credentials on the login page, the system will send them to the Officer page.

On the officer page, our system will provide the complete information of the grant, which are grant ID, Lecturer ID, Grant Owner, Type, Due date and progress.

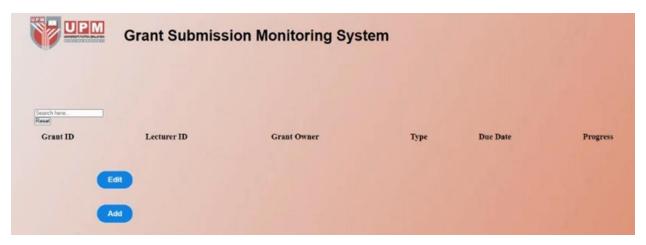


Figure 1.3.5 Officier Page

On this page, the system will provide the officer to insert a new grant for a particular lecturer by clicking the 'Add' button. The 'add' button will bring the officer to the insert grant information page.



Officers need to fill up the following form: grant ID, Lecturer ID, type, the beginning date of the grant, the due date for the grant, and lastly, the progress. Note that the progress is divided into 3 categories; 1, 2 and 3.

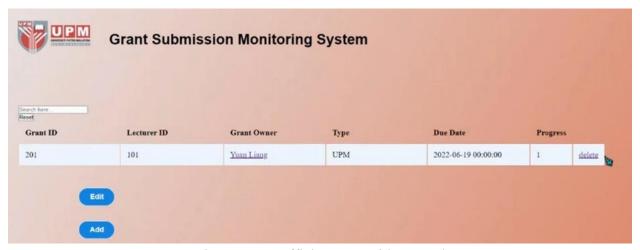


Figure 1.3.6 Officier Page with Record

After clicking the 'submit' button, the system will show all the information about the grant on the front page of the officer. It is also added to our SQL database.





Note that the officer can also add more grants with the same lecturer by clicking the 'add' button and filling in the information using the same Lecturer ID. The officer can add more grants with a different lecturer.



Officers can update the grant for a particular lecturer who has already finished their work for each progress; the officer can click the 'Edit' button and be sent to the update grant information page.



The officer can insert a particular grant id that the officer wants to update and change the new due date for the lecturer if the current progress is done and moving into the following progress.

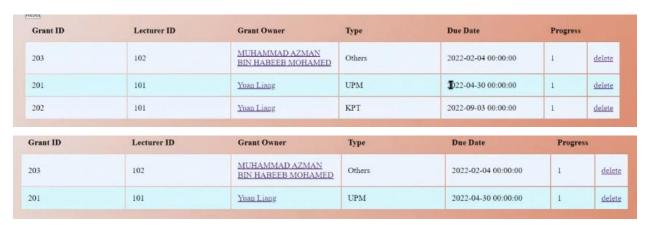
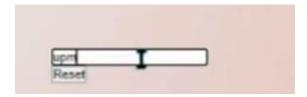


Figure 1.3.7 Officier Page After Delete

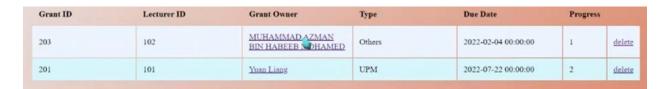
As you can see in the diagram above, the due date for grant id 201 is updated, and you can delete the grant that their progress is already complete using the 'delete' button.



Officers also can search anything related to the information of the grant to find any detailed data that they want.



For example, the officer can search lecturer id with the number '102', and the table will only show the information of the lecturer id 102. By clicking the 'reset' button, it will show all the data in the table back.





The officer can also check the lecturer information to contact the particular lecturer regarding the grant by clicking the lecturer's name, and the system will go into the lecturer information.

| Grant ID | Lecturer I | Grant Owne | Туре | Due Date | Progress | |
|----------|------------|--|--------|------------------------|----------|---------------|
| 201 | 101 | Yuan Liang | UPM | 2022-01-21 00:00:00 | 1 | <u>Delete</u> |
| 1443 | 102 | MUHAMMAD AZMAN BIN HABEEB MOHAMED | Others | 2022-05-20 00:00:00 | 2 | <u>Delete</u> |
| 202 | 101 | Yuan Liang | KPT | 2023-09-20 00:00:00 | 1 | <u>Delete</u> |

And lastly, the system also provides a sort function where officers can sort the table in the ascending/descending order by clicking any data they want to be in the ascending order or descending order.

For example, by clicking the 'grant owner,' the system will sort the data into the alphabet order.

| Grant ID | Lecturer ID | Grant Owner | Type | Due Date | Progress | |
|----------|-------------|--|--------|------------------------|----------|---------------|
| 202 | 101 | Yuan Liang | KPT | 2023-09-20 00:00:00 | 1 | <u>Delete</u> |
| 201 | 101 | Yuan Liang | UPM | 2022-01-21 00:00:00 | 1 | Delete |
| 1443 | 102 | MUHAMMAD AZMAN BIN HABEEB MOHAMED | Others | 2022-05-20 00:00:00 | 2 | Delete |

Appendix: A full Program Code

2.1 Welcome Page

welcome.jsp can be redirect to Lectlogin.jsp, Offlogin.jsp & signupLecturer.jsp.

```
welcome.jsp
<!DOCTYPE html>
   <title>UPM Grand Monitoring Welcome Page</title>
   <div style="background-color: #900c3f;margin:0px;padding: 0px">
      <img src="css/UPM-Logo-Vector.png" width="800" height="384" style="margin-left: 600px;" >
   <div style="background-color: #cc2952;margin: 0px;padding: 0px">
   <center>
      font-style: italic;">Grant Submission Monitoring System
   50px; font-style: italic;">This system is designed to provide UPM lecturers with the
   function of grant application
   As well as the functions of grant progress inquiry and report sending for relevant persons in
   charge.
<a href="Lectlogin.jsp" class="fas fa-chalkboard-teacher " style="font-size: 50px; text-decoration:</pre>
   none; margin-left: 100px; margin-top:50px; color: #fff;" > Login As Lecturer</a>
<a href="Offlogin.jsp" class="fas fa-poll" style="font-size: 50px;text-decoration: none;margin-left</pre>
   : 100px;color: #fff;line-height: 200px"> Login As Officer</a>
Don't have account?
Click here to create a new account
<script src="https://kit.fontawesome.com/0ed1e5d703.js" crossorigin="anonymous"></script>
<a href="singuplecturer.jsp" class="fas fa-user-plus" style="font-size: 50px;text-decoration: none;
   margin-left: 100px;margin-top: 50px;color: #fff;line-height: 50px"> Lecturer Sign Up</a></
```

Figure 2.1.1 Code for Welcome Page

2.2 Sign Up Page

2.2.1 Lecturer Sign Up Page

signupLecturer.jsp will be redirect to singupLecturerConnect.jsp

```
<body>
         <div class="center">
           <h2>Sign Up Lecturer</h2>
           <form action="singupConnectLecturer.jsp" method="post">
             <div class="txt field">
               <label>Staff ID</label>
               <span></span>
               Rinput
                 type="number "
                 required
                 class="form-control"
29
                 id="lect id"
                name="lect id"
             </div>
             <div class="txt field">
               <label>Full Name</label>
               <input type="text" required id="lect name" name="lect name" />
               <span></span>
             </div>
             <div class="txt_field">
               <label>Email</label>
               <input type="email" required id="lect email" name="lect email" />
               <span></span>
             </div>
             <div class="txt field">
               <label>Address</label>
               <input type="text" required id="lect_address" name="lect_address" />
               <span></span>
             </div>
```

```
57
             <div class="txt_field">
               <label>Phone Number</label>
               <input type="text" required id="lect phone" name="lect phone" />
62
               <span></span>
             </div>
65
             <div class="txt field">
               <label>Password</label>
               <input type="password" required id="lect_pass" name="lect_pass" />
               <span></span>
70
             </div>
71
72
73
             <input type="submit" value="Sign Up" />
75
76
             <div class="signup link"></div>
78
79
           </form>
         </div>
       </body>
81
     </html>
82
```

Figure 1.8 Code for Sign Up Lecture Page

2.2.2 signupConnectLecturer.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>
      <%@page import="java.sql.*,java.util.*"%>
      PreparedStatement stmt = null;
     class.forName("oracle.jdbc.driver.OracleDriver");
     Connection conn = DriverManager.getConnection("jdbc:oracle:thin:@119.40.117.30:1521:fsktm", "F207798" , "207798");
      Statement st = conn.createStatement();
11 Integer lect_id=Integer.parseInt(request.getParameter("lect_id"));
     String lect name=request.getParameter("lect_name");
     String lect_email=request.getParameter("lect_email");
14 String lect_address=request.getParameter("lect_address");
     String lect_phone=request.getParameter("lect_phone");
String lect_pass=request.getParameter("lect_pass");
stmt=conn.prepareStatement("insert into lecturer values(?,?,?,?,?)");
stmt.clearParameters();
20 stmt.setInt(1,lect id);
stmt.setString(2,lect_name);
stmt.setString(3,lect_email);
23 stmt.setString(4,lect_address);
stmt.setString(5,lect_phone);
stmt.setString(6,lect_pass);
stmt.setString(6,lect_pass);
     stmt.executeUpdate();
     stmt.close();
     conn.close();
     request.getRequestDispatcher("Lectlogin.jsp").forward(request,response);
     out.print(e);
      e.printStackTrace();
     %>
```

Figure 1.9 Code for SignupConnectLecturer.jsp

2.3 Login Page

Regarding the login function, we provide a login interface including lecturers and officials. As long as users with account passwords can log in to the system through their respective account passwords, in the login interface, the content that the user needs to enter includes: user id and password, the user only has Login is not achieved until all information is filled in and the login button is clicked. The login page will run to the instructor information page, and the member has successfully logged in.

2.3.1 Lecturer Login Page

Lectlogin.jsp redirect to lectvalidate.jsp for id and pass validation

```
Lectlogin.jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>
<%@page import="java.sql.*,java.util.*"%>
<!DOCTYPE html>
<TITLE>Lecturer Log In Page</TITLE>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
       ta charset="utf-8">
    <meta name="keywords" content="Grant Submission Monitoring System">
    <meta name="description" content="">
    <meta name="page_type" content="np-template-header-footer-from-plugin">
    <title>Lecturer</title>
    k rel="stylesheet" href="lectstyle.css" media="screen">
k rel="stylesheet" href="Lecturer.css" media="screen">
oboto:100,100i,300,300i,400,400i,500,500i,700,700i,900,900i|Open+Sans:300,300i,400,400i,600,600
    i,700,700i,800,800i">
    <script type="application/ld+json">{
    "@context": "http://schema.org",
"@type": "Organization",
"name": ""
}</script>
    <meta name="theme-color" content="#478ac9">
<meta property="og:title" content="Lecturer">
    <meta property="og:type" content="website">
  u-clearfix u-sheet u-valign-middle u-sheet-1">
        <div class="u-clearfix u-expanded-width u-layout-wrap u-layout-wrap-1">
          <div class="u-layout">
             <div class="u-layout-row">
               <div class="u-align-left u-container-style u-image u-layout-cell u-size-18 u-image-1"</pre>
               data-image-width="722" data-image-height="341">
                <div class="u-container-layout u-container-layout-1"></div>
               <div class="u-container-style u-layout-cell u-size-42 u-layout-cell-2">
                <div class="u-container-layout u-container-layout-2">
                  <h1 class="u-text u-title u-text-1">Grant Submission Monitoring System</h1>
<hr style = "color:grey" class="dashed">
<h3 style = "color:darkblue;" >Lecturer Log In Page</h3>
<hr style = "color:grey" class="dashed">
```

```
<h1 style="font-size: x-large;"><b>Sign In</b><br></br></h1>
<form method="get" id="logindetail" action="lectvalidate.jsp">
<form NAME="main" ACTION="Lecturer.jsp" method="post">
<h2 style="font-size: large;"><b>Lecturer ID: </b></h2>
<h2 style="font-size: Large;"><b>Password: </b></h2>
<Input type="password" name="lect_pass" id="pass" required>
```

Figure 2.3.1 Code for Lecturer Sign in Page

2.3.2 Lecturer Validate Page

```
lectvalidate.jsp
                              Lectlogin.jsp
k%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>
<%@page import="java.sql.*,java.util.*"%>
<meta charset="UTF-8">
<%
PreparedStatement stmt = null;
Class.forName("oracle.jdbc.driver.OracleDriver");
Connection conn = DriverManager.getConnection("jdbc:oracle:thin:@119.40.117.30:1521:fsktm", "
F207798" , "207798");
Statement st = conn.createStatement();
     String id = request.getParameter("lect_id");
    String password = request.getParameter("lect_pass");
    stmt=conn.prepareStatement("SELECT * from lecturer where lect id = ?");
    stmt.setString(1, id);
     if ((stmt.executeUpdate())> 0) {
         ResultSet rs=stmt.executeQuery();
         while(rs.next()){
        %>
         <!DOCTYPE html>
             <script type="text/javascript">
         let testname = '<%=rs.getInt("lect_id")%>';
let testname2 = '<%=id%>';
         let testpass = '<%=rs.getString("lect_pass")%>';
         let testpass2 = '<%=password%>';
         //console.log(testname === testname2)
         if (testname === testname2 && testpass === testpass2) {
             window.location='Lecturer.jsp?lect_id='+ '<%=rs.getInt("lect_id")%>' +'&lect_pass='+
                 <%=rs.getString("lect_pass")%>';
         }
             alert("Your password is wrong!");
             window.location='Lectlogin.jsp';
          //else {
             //response.sendRedirect("GrantForm.jsp");
         <%
     }else {
```

Figure 2.3.2 Code for Lecturer Validate Page

2.3.3 Officer Login Page

Offlogin.jsp redirect to offvalidate.jsp for id and pass validation

```
4 Þ
      Offlogin.jsp
                                    offvalidate.jsp
       🚧 page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>
       <%@page import="java.sql.*,java.util.*"%>
       <!DOCTYPE html>
       <TITLE>Officer Log In Page</TITLE>
           <title>Lecturer</title>
           k rel="stylesheet" href="lectstyle.css" media="screen">
       <link rel="stylesheet" href="Lecturer.css" media="screen">
       <link rel="stylesheet" type="text/css" href="loginstyle.css">
           <link id="u-theme-google-font" rel="stylesheet" href="https://fonts.googleapis.com/css?family=R</pre>
           oboto:100,100i,300,300i,400,400i,500,500i,700,700i,900,900i|Open+Sans:300,300i,400,400i,600,600
           i,700,700i,800,800i">
         <body class="u-body"><header class="u-clearfix u-header u-header" id="sec-c666"><div class="
         u-clearfix u-sheet u-valign-middle u-sheet-1">
                <div class="u-clearfix u-expanded-width u-layout-wrap u-layout-wrap-1">
                  <div class="u-layout">
                    <div class="u-layout-row">
                      <div class="u-align-left u-container-style u-image u-layout-cell u-size-18 u-image-1"</pre>
                       data-image-width="722" data-image-height="341">
                        <div class="u-container-layout u-container-layout-1"></div>
                      <div class="u-container-style u-layout-cell u-size-42 u-layout-cell-2">
                        <div class="u-container-layout u-container-layout-2">
                          <h1 class="u-text u-title u-text-1">Grant Submission Monitoring System</h1>
       <hr style = "color:grey" class="dashed">
<h3 style = "color:darkblue;" >Officer Log In Page</h3>
<hr style = "color:grey" class="dashed">
       <h1 style="font-size: x-large;"><b>Sign In</b><br></br></h1>
       <form method="get" id="logindetail" action="offvalidate.jsp">
       <form NAME="main" ACTION="Lecturer.jsp" method="post">
       <h2 style="font-size: Large;"><b>Officer ID: </b></h2>
       <Input type="text" name="officer_id" id="name" required>
```

Figure 2.3.3 Code for Officier login Page

2.3.4 Officier Validate Page

```
4 >
        Offlogin.jsp
                                           offvalidate.jsp
        page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>
<%@page import="java.sql.*,java.util.*"%>
<meta charset="UTF-8">
         <%
         PreparedStatement stmt = null;
         Class.forName("oracle.jdbc.driver.OracleDriver");
Connection conn = DriverManager.getConnection("jdbc:oracle:thin:@119.40.117.30:1521:fsktm", "
         F207798" , "207798");
Statement st = conn.createStatement();
              String id = request.getParameter("officer_id");
              String password = request.getParameter("officer_pass");
              stmt=conn.prepareStatement("SELECT * from Officer where officer_id = ?");
              stmt.setString(1, id);
              if ((stmt.executeUpdate())> 0) {
                   ResultSet rs=stmt.executeQuery();
                   while(rs.next()){
                   <!DOCTYPE html>
                  <script type="text/javascript">
let testname = '<%=rs.getString("officer_id")%>';
let testname2 = '<%=id%>';
                   let testpass = '<%=rs.getString("officer_pass")%>';
let testpass2 = '<%=password%>';
                   if (testname === testname2 && testpass === testpass2) {
                       window.location='OfficerPage.jsp?officer_id='+'<%=rs.getString("officer_id")%>'+'
                            &officer_pass='+ '<%=rs.getString("officer_pass")%>';
                   else {
                       alert("Your password is wrong!");
                       window.location='Offlogin.jsp';
                        //response.sendRedirect("GrantForm.jsp");
                   <%
              }else {
```

Figure 2.3.4 Code for Officier Validate Page

2.4 Lecturer Page

Lecturer.jsp will be redirected to confirmsub.jsp (confirmation grant submission)

2.4.1 Lecturer.jsp

Regarding the lecturer page, when the ID and password match those in the database, the user can successfully log in to the lecturer page, and in the lecturer page we can see data about the lecturer, including employee ID, full name, address, email address and telephone number,

There are three (3) sections at the bottom of the Instructor page titled "Progress 1", "Progress 2" and "Closed Project". Instructors can add or update their grant submissions in the next progression. All documents entered in this section will be available for inspection by officers.

```
◂
       Lecturer.jsp
                                       confirmsub.jsp
         x@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>
<%@page import="java.sql.*,java.util.*"%>
         <!DOCTYPE html>
         <html style="font-size: 16px;">
             <title>Lecturer</title>
             <link rel="stylesheet" type="text/css" href="loginstyle.css">
         <link rel="stylesheet" href="lectstyle.css" media="screen">
<link rel="stylesheet" href="Lecturer.css" media="screen">
             <script class="u-script" type="text/javascript" src="jquery.js" defer=""></script>
             <script class="u-script" type="text/javascript" src="nicepage.js" defer=""></script>
             <link id="u-theme-google-font" rel="stylesheet" href="https://fonts.googleapis.com/css?family=
Roboto:100,100i,300,300i,400,400i,500,500i,700,700i,900,900i|Open+Sans:300,300i,400,400i,600,6</pre>
             00i,700,700i,800,800i">
           <body class="u-body"><header class="u-clearfix u-header u-header" id="sec-c666"><div class="
           u-clearfix u-sheet u-valign-middle u-sheet-1">
                  <div class="u-clearfix u-expanded-width u-layout-wrap u-layout-wrap-1">
                    <div class="u-layout">
                      <div class="u-layout-row">
                        <div class="u-align-left u-container-style u-image u-layout-cell u-size-18 u-image-1</pre>
                         " data-image-width="722" data-image-height="341">
                           <div class="u-container-layout u-container-layout-1"></div>
                         <div class="u-container-style u-layout-cell u-size-42 u-layout-cell-2">
                           <div class="u-container-layout u-container-layout-2">
                            <h1 class="u-text u-title u-text-1">Lecturer Grant Submission</h1>
               <div class="u-clearfix u-sheet u-sheet-1">
              <div class="u-container-layout u-container-layout-2">
               <h2 class="u-text u-title u-text-1"><b>Lecturer's Information</b></h2>
         <%
         PreparedStatement stmt = null;
             Class.forName("oracle.jdbc.driver.OracleDriver");
             Connection conn = DriverManager.getConnection("jdbc:oracle:thin:@119.40.117.30:1521:fsktm", "
             F207798", "207798");
//Statement st =conn.createStatement();
             Integer lect_id=Integer.parseInt(request.getParameter("lect_id"));
             String lect_pass=request.getParameter("lect_pass");
             stmt-conn.prepareStatement("SELECT * from lecturer where lect_id = ? AND lect_pass = ?");
             stmt.setInt(1, lect_id);
             stmt.setString(2, lect_pass);
```

```
ResultSet rs=stmt.executeQuery();
 while(rs.next()){
%>
<style>table {
font-family: arial, sans-serif;
border-collapse: separate;
width: 100%;
max-height: 100%;
border: 1px solid #dddddd;
text-align: left;
padding: 8px;
tr:nth-child(even) {
background-color: #dddddd;
}</style>
  <b>Lecturer ID: </b><%=rs.getInt("lect_id")%>
  <b>Full Name: </b><%=rs.getString("lect_name")%>
  <b>Email: </b><%=rs.getString("lect_email")%>
  <b>Address: </b><
<td><%=rs.getString("lect_address")%>
  <pr
<%
 rs.close();
 stmt.close();
 conn.close();
catch(Exception e){
 out.print(e);
 e.printStackTrace();
%>
<div class="u-container-layout u-container-layout-2">
```

```
<h2 class="u-text u-title u-text-1"><b>Lecturer's Grant</b></h2>
 <%
PreparedStatement stmt2 = null;
   Class.forName("oracle.jdbc.driver.OracleDriver");
   Connection conn2 = DriverManager.getConnection("jdbc:oracle:thin:@119.40.117.30:1521:fsktm",
    F207798", "207798");
   //Statement st =conn.createStatement();
   Integer lect_id=Integer.parseInt(request.getParameter("lect_id"));
   stmt2=conn2.prepareStatement("SELECT * from resgrant where lect_id = ?");
   stmt2.setInt(1, lect_id);
   ResultSet rs2=stmt2.executeQuery();
   while(rs2.next()){
 font-family: arial, sans-serif;
 border-collapse: separate;
 width: 100%;
 max-height: 100%;
 border: 1px solid #dddddd;
 text-align: left;
 padding: 8px;
 tr:nth-child(even) {
 background-color: #dddddd;
 }</style>
       <b>Grant ID: </b><%=rs2.getInt("grant_id")%>
       <b>Type: </b><%=rs2.getString("type")%>
       <b>Due Date: </b><%=rs2.getString("due_date")%>
```

```
<%
  rs2.close();
  stmt2.close();
  conn2.close();
catch(Exception e){
  out.print(e);
  e.printStackTrace();
%>
  <section class="u-clearfix u-section-2" id="sec-155b">
  <style> div1 {
      border: 5px outset red;
      background-color: lightblue;
      text-align: center;
    }</style>
    <div class="u-clearfix u-sheet u-valign-top u-sheet-1">
      <div1 class="u-clearfix u-expanded-width u-layout-wrap u-layout-wrap-1">
    <div class="u-layout">
           <div class="u-layout-row">
             <div class="u-container-style u-layout-cell u-size-20 u-layout-cell-1">
                <div class="u-container-layout u-valign-top u-container-layout-1">
                  <h3 class="u-text u-text-default u-text-1"><b>Progress 1</b><br></br></br></pr>
                    <h2 style="font-size: Large;">Please insert your Progress 1 file: </h2>
                    <form action="confirmsub.jsp">
                      <label for="myfile">Select files:</label>
<input type="file" id="myfile" name="myfile" multiple><br></br>
<input type="submit" onclick="return confirm('Are you sure?')">
             <div class="u-container-style u-layout-cell u-size-20 u-layout-cell-2">
                <div class="u-container-layout u-valign-top u-container-layout-2">
                 <h3 class="u-text u-text-default u-text-2"><b>Progress 2</b></br></br></pr>
                    <h2 style="font-size: large;">Please insert your Progress 2 file: </h2>
<form action="confirmsub.jsp">
                      <label for="myfile">Select files:</label>
                      <input type="file" id="myfile" name="myfile" multiple><br></br>
                      <input type="submit" onclick="return confirm('Are you sure?')">
             <div class="u-container-style u-layout-cell u-size-20 u-layout-cell-3">
                <div class="u-container-layout u-valign-top u-container-layout-3">
                 <h3 class="u-text u-text-default u-text-3"><b>Close Project</b>
                    <h2 style="font-size: large;">Please insert your Close Project file: </h2>
```

Figuree 2.4.1 Lecutrer Page

2.4.2 Lecturer Confirm Submission Page

confirmsub.jsp will be redirected to progvalidate.jsp for pass validation

Figure 2.4.2 Lecturer Confirm Submission Page

2.4.3 Progress Validate Page

progvaldiate.jsp (will be redirected to progressdone.jsp for Progress Updated notifications)

```
∢▶
                                       progvalidate.jsp
       page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>
<%@page import="java.sql.*,java.util.*"%>
<meta charset="UTF-8">
        <%
        PreparedStatement stmt = null;
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection conn = DriverManager.getConnection("jdbc:oracle:thin:@119.40.117.30:1521:fsktm", "
       F207798" , "207798");
Statement st = conn.createStatement();
            String password = request.getParameter("lect_pass");
            stmt=conn.prepareStatement("SELECT * from lecturer where lect_pass = ?");
            stmt.setString(1, password);
            if ((stmt.executeUpdate())> 0) {
                 ResultSet rs=stmt.executeQuery();
                 while(rs.next()){
                 %>
                 <!DOCTYPE html>
                     <script type="text/javascript">
                let testpass = '<%=rs.getString("lect_pass")%>';
let testpass2 = '<%=password%>';
                 //console.log(testname === testname2)
                 if (testpass === testpass2) {
                     window.location='progressdone.jsp?lect_pass='+'<%=rs.getString("lect_pass")%>';
                     alert("Your password is wrong!");
                     window.location='Lectlogin.jsp';
                 <%
            }else {
                 %>
                          <script type="text/javascript">
                              alert("Your Password is wrong!");
                              window.location='Lectlogin.jsp';
```

Figure 2.4.3 Progress Validate Page

2.4.4 Progress Done Page

Progressdone.jsp (SQL Table ResGrant Column Progress UPDATED)

```
41
                                       progvalidate.jsp
                                                                        progressdone.jsp
        x@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>
x@page import="java.sql.*,java.util.*"%>
           <link rel="stylesheet" type="text/css" href="bgstyle.css">
              <h1 style="font-size": xx-large;>Progress Updated!<h1>
           <%
           PreparedStatement stmt = null;
           Class.forName("oracle.jdbc.driver.OracleDriver");
Connection conn = DriverManager.getConnection("jdbc:oracle:thin:@119.40.117.30:1521:fsktm", "
               F207798", "207798");
           String lect_pass=request.getParameter("lect_pass");
            stmt=conn.prepareStatement("update resgrant set progress = progress + 1 where lect_id = (select
               lect_id from lecturer where lect_pass = ?)");
            stmt.setString(1, lect_pass);
            stmt.executeUpdate();
            catch(Exception e){
              out.print(e);
               e.printStackTrace();
           }
%>
```

2.5 Officer Page

Only officers who exist in the database can access the officers page. After the user enters the correct login password on the login page, the system will transfer him to the official page. In the Officials page, our system will provide full funding information, including funding ID, instructor ID, funding owner, type, deadline, and progress.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>
<%@page import="java.sql.*,java.util.*"%>
<!DOCTYPE html>
<link rel="stylesheet" type="text/css" href="loginstyle.css">
<html style="font-size: 16px;">
<head>
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>OFFICER'S PAGE</title>
   k rel="stylesheet" href="Projects.css" >
   k rel="stylesheet" href="OfficerPagee.css" >
</head>
   <section class="header" >
       <nav>
           <a href="https://upm.edu.my/" class="square" ><img src="images/UPM-Logo-Vector.png"></a>
           <div class="nav-links">
           <h1 class="text">
           <span style="font-size: 2.25rem;">Grant Submission Monitoring System
           </h1>
       </nav>
   </section>
   <section class="content-table">
       <div class="search">
           <form action="" method="get">
               <input type = "text" class="form-control" name ="q" placeholder="Search here..."/>
           </form>
           <form action="OfficerPage.jsp">
               <button type="submit">Reset</button>
           </form>
       </div>
```

```
Grant ID
          Lecturer ID
          Grant Owner
          Type
          Due Date
          Progress
     </thead>
     <br><br><br>></pr>
  <input type="submit" value="Edit"</pre>
     onclick="window.location='EditGrantForm.jsp';" />
  <br><br><br>>
  <input type="submit" value="Add"</pre>
     onclick="window.location='GrantForm.jsp';" />
</section>
<script type="text/javascript">
let i = 0;
const dataA = [];
const dataB = [];
const dataG = [];
const dataT = [];
const dataU = [];
const dataK = [];
const dataL = [];
```

```
function sortColumnN(columnName) {
   const dataType = typeof grantData[0][columnName];
   sortDirection = !sortDirection;
     switch(dataType) {
         case 'string' :
         sortNameColumn(sortDirection,columnName);
         break;
     loadTableData(grantData);
}
function sortColumnT(columnName) {
    const dataType = typeof grantData[0][columnName];
     sortDirection = !sortDirection;
     switch(dataType) {
         case 'string' :
         sortNameColumn(sortDirection,columnName);
         break;
     loadTableData(grantData);
}
function sortNameColumn(sort, columnName) {
    grantData = grantData.sort((p1,p2) => {
         return sort ? p1[columnName] < p2[columnName] ? -1:1 : p2[columnName] > p1[columnName] ? 1:-1
    });
```

Figure 2.5.1 Code for Officer Page

Clicking the add button in officerpage.jsp would redirect to GrantForm.jsp (For grant adding process)

2.5.2 Grant Form Page

```
<thead>
       (tr>
          Grant ID
          Lecturer ID
          Grant Owner
          Due Date
          Progress
       </thead>
     <br><br><br>>
  <input type="submit" value="Edit"</pre>
     onclick="window.location='EditGrantForm.jsp';" />
  <br><br><br>>
  <input type="submit" value="Add"</pre>
     onclick="window.location='GrantForm.jsp';" />
</section>
<script type="text/javascript">
let i = 0;
const dataA = [];
const dataB = [];
const dataG = [];
const dataT = [];
const dataU = [];
const dataK = [];
const dataL = [];
```

```
</div>
               </div>
             </div>
          </div>
        </div>
      </div></header></center>
<html><
<center>
<body>
  <form method="post" action="insert.jsp">
    Grant Id : <br>
    <input type="text" name="grant_id">
    <br><br><br>>
    Lecturer Id : <br>>
    <input type="text" name="lect_id">
    <br><br>><br>></pr>
    Type : <br>
    <input type="text" name="type">
    <br><br>>
    Begin Date : <br>
    <input type="date" name="begin_date">
    <br><br><br>>
    Due date : <br>
    <input type="date" name="due_date">
    <br><br><br>>
    Progress : <br>
    <input type="text" name="progress">
    <br><br><br>>
    <input type="submit">
  </form>
</body>
</body>
</center>
</html>
```

Figure 2.5.2 Code for Grant Form Page

Clicking the edit button in officerpage.jsp will redirect to EditGrantForm.jsp (For grant editing purpose)

2.5.3 Edit Grant Form Pagee

```
k!DOCTYPE html>
<html style="font-size: 16px;">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <meta charset="utf-8">
   <meta name="keywords" content="Grant Submission Monitoring System">
   <meta name="description" content="">
   <meta name="page_type" content="np-template-header-footer-from-plugin">
   <title>Lecturer</title>
   k rel="stylesheet" type="text/css" href="loginstyle.css">
   <link rel="stylesheet" href="nicepage.css" media="screen">
<link rel="stylesheet" href="Lecturer.css" media="screen">
   <script class="u-script" type="text/javascript" src="jquery.js" defer=""></script>
   <script class="u-script" type="text/javascript" src="nicepage.js" defer=""></script>
   <meta name="generator" content="Nicepage 4.2.6, nicepage.com">
   k id="u-theme-google-font" rel="stylesheet" href="https://fonts.googleapis.com/
   css?family=Roboto:100,100i,300,300i,400,400i,500,500i,700,700i,900,900i|Open+Sans:300,300i,400,400i,600,600i,700,700i,800,800i">
    <script type="application/ld+json">{
    "@context": "http://schema.org",
    "@type": "Organization",
    "name": ""
}</script>
    <meta name="theme-color" content="#478ac9">
   <meta property="og:title" content="Lecturer">
   <meta property="og:type" content="website">
  </head>
  <center>
  <body class="u-body"><header class="u-clearfix u-header u-header" id="sec-c666"><div class="u-clearfix u-sheet u-valign-middle u-sheet-1">
       <div class="u-clearfix u-expanded-width u-layout-wrap u-layout-wrap-1">
         <div class="u-layout">
           <div class="u-layout-row">
              <div class="u-align-left u-container-style u-image u-layout-cell u-size-18 u-image-1" data-image-width="722" data-image-height="341">
                <div class="u-container-layout u-container-layout-1"></div>
              </div>
              <div class="u-container-style u-layout-cell u-size-42 u-layout-cell-2">
```

Figure 2.5.3 Edit Grant Form Page

Clicking the lecturer's name will redirect to lectinfo.jsp (To receive lecturer's information)

2.5.4 Lecturer Information Page

```
KMe page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>

KMepage import="java.sql.*,java.util.*"%>

(IDOCTYPE html)

(Atml style="font-size: 16px;")

(Anead)

(Atml style="font-size: 16px;")

(Atml style="font-size: 16px;")

(Atml rel="stylesheet" hpef="lecttyle.css" media="screen")

(Atml rel="stylesheet" hpef="lectturen.css" media="screen")

(Atml rel="stylesheet" hpef="lectty.javascript" snc="jaueny.js" defon="">\text{script}

(Atml rel="stylesheet" hpef="lectty.javascript" snc="jaueny.js" defon="">\text{script}

(Atml rel="stylesheet", javascript" snc="incepage.js" defon="">\text{script}

(Atml rel="stylesheet", javascript" snc="javascript", javascript", javascript
```

```
PreparedStatement stmt = null;
try
{
    Class.forName("oracle.jdbc.driver.OracleDriver");
    Connection conn = DriverManager.getConnection("jdbc:oracle:thin:@119.40.117.30:1521:fsktm", "F207798", "207798");

//Statement st =conn.createStatement();

Integer lect_id=Integer.parseInt(request.getParameter("id"));

stmt=conn.prepareStatement("SELECT * from lecturer where lect_id = ?");

stmt.setInt(1, lect_id);

ResultSet rs=stmt.executeQuery();
while(rs.next()){
%

style>table {
    font-family: arial, sans-serif;
    border-collapse: separate;
    width: 100%;
    max-height: 100%;
}

td, th {
    border: 1px solid #dddddd;
    text-align: left;
    padding: 8px;
}

tr:nth-child(even) {
    background-color: #dddddd;
}

**Text-align: deficiency table >

**Text-align: centery(table)

**Text-alig
```

```
<center>
 <b>Lecturer ID: </b>
  <%=rs.getInt("lect_id")%>
 <b>Full Name: </b>
  <%=rs.getString("lect_name")%>
 <b>Email: </b>
  <%=rs.getString("lect_email")%>
 <b>Address: </b>
  <%=rs.getString("lect_address")%>
  <b>Phone No.: </b>
  <%=rs.getString("lect_phone")%>
 </center>
 rs.close();
 stmt.close();
 conn.close();
catch(Exception e){
 out.print(e);
 e.printStackTrace();
%>
</div>
</section>
</body>
</html>
```

Figure 2.5.5 Lecturer Information Page

Clicking the delete button would redirect to delete.jsp (For deleting the grant data in the database.

2.5.6 Delete Record Page

Figure 2.5.6 Delete Record Page

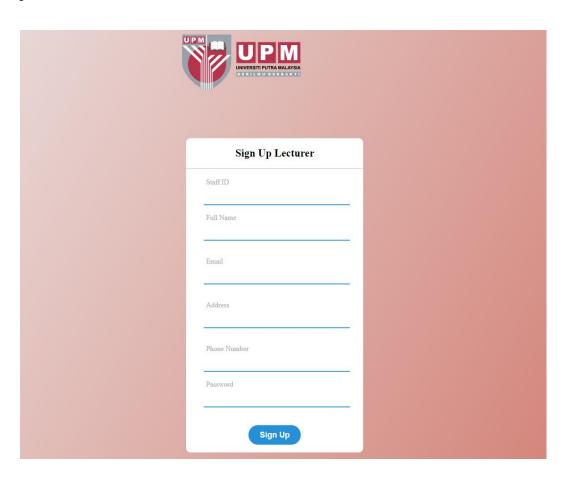
User Manual

product description

Grant submission monitoring system is designed for lectures and grant-related staff. Lecturers can use the system to view grant progress and submit documents required for the application stage. Officers can use this system to view and update the progress of grant applications, as well as view lectures personal information and escalate information to the dean after lectures have passed the submission deadline.

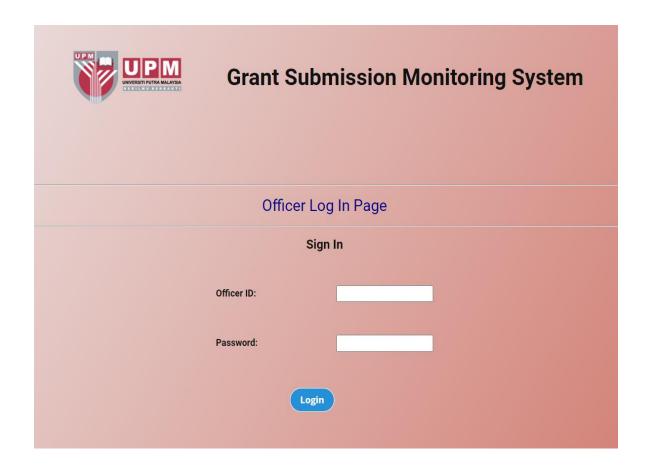
Product Features

Sign up

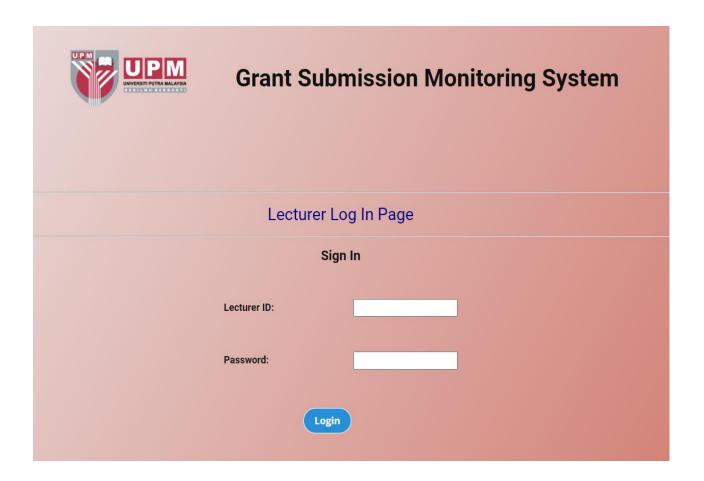


Log in

• Login as officer

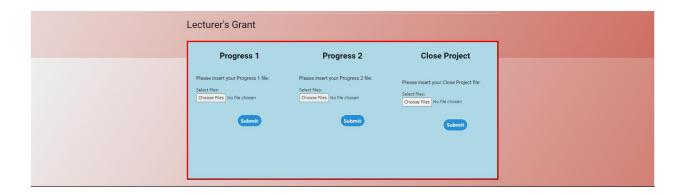


• Login as lecture



Features for lecture

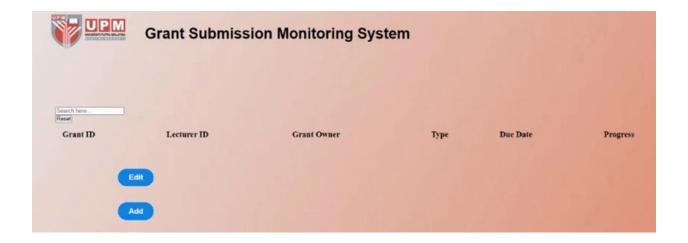




- Sign up
- Display personal information
- Check the progress of the grant
- Check the deadline of submission
- Submit the document for each progress

Features for officer

- Check the lectures' application
- Check the document of each progress



• Update the progress of each grant





- Set the deadline for each progress
- Sort the grant
- Research the grant
- Delete / Add the grant

| Lecturer's Inf | ormation |
|----------------|--------------------------------------|
| Lecturer ID: | 102 |
| Full Name: | MUHAMMAD AZMAN BIN HABEEB MOHAMED |
| Email: | azman@gmail.com |
| Address: | Jalan Nuri, Kota Damansara, Selangor |
| Phone No.: | 01972491619 |

• Check the lectures' information

Instructions for use

1. Sign Up

Lecturers who first use this system need to sign up first.

2. Log in

Users can choose login as lecturer or login as officer, after inputting the ID and password that will jump to the corresponding interface.

3. Features for Lecture

These features only lectures can use.

4. Features for officer

These features only officers can use