



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Project Report

on

**Knowledge Connect: Empowering Your
Faculty Choices with Senior Insights**

*to be submitted in partial fulfillment of the
requirements for the course on*

**SWE2027 – Knowledge
Management System
Review – 3**

by

Project Team		
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Under the guidance of

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1. Project synopsis or abstract

Our project, “Knowledge Connect” is all about building a website to help seniors pass on useful tips to juniors entering higher education. The website focuses on insights about teachers' styles, grading methods, leniency, and class strictness. It's designed to be user-friendly and secure, addressing concerns about too much information. By creating a space where students can easily share their experiences, we aim to make the transfer of knowledge smooth. Our goal is to build a friendly online community where students collaborate and support each other, ultimately making the educational journey for juniors more enjoyable and beneficial as they step into higher education.

2. Introduction

a. General overview or background of the project topic/domain,

The project involves developing a Knowledge Management System (KMS) designed to facilitate knowledge transfer from senior students to junior students regarding faculty characteristics. The main goal is to create a platform where seniors can share insights about teaching styles, grading methods, class expectations, and other relevant aspects of faculty members. This information helps juniors make informed decisions when choosing courses and fosters a supportive community where students can share experiences and advice. The project aims to improve the overall learning experience in a higher education environment by providing a reliable and user-friendly website for effective knowledge transfer.

b. Literature survey and/or

S.NO	AUTHORS	YEAR	TITLE	DESCRIPTION
1	Richard M. Walker	2009	Student feedback in higher education: a significant element of change?"	This paper delves into the crucial role of student feedback in shaping and improving higher education institutions. Walker explores how feedback from students can serve as a catalyst for positive changes within the educational system.
2	Sarah Guri-Rosenblit	2015	Real-time feedback and eLearning: improving engagement and quality	Guri-Rosenblit delves into the benefits of real-time feedback in eLearning environments, including increased student engagement, personalized learning experiences, and timely identification of learning gaps.
3	E. Scott, M. Connelly	2017	Using technology to enhance student	E. Scott and M. Connelly's article, "Using technology to enhance student feedback: a case study," published in the British Journal of Educational

			feedback: a case study	Technology in 2017 presents a detailed examination of how technology can be effectively utilized to improve the process of providing feedback to students.
4	T. Robinson, L. Udall	2018	Feedback and connection: exploring the impact of adaptive feedback systems in education	"T. Robinson and L. Udall's article, "Feedback and connection: exploring the impact of adaptive feedback systems in education," published in Educational Technology Research and Development in 2018, investigates the influence of adaptive feedback systems on student learning outcomes and the quality of student-instructor connections.
5	Nicol D.J., Macfarlane-Dick,	2006	Formative assessment and self-regulated learning: A model and seven principles of good feedback practice.	Nicol and Macfarlane-Dick's article, "Formative assessment and self-regulated learning: A model and seven principles of good feedback practice," published in Studies in Higher Education in 2006, presents a comprehensive framework for understanding and implementing effective feedback practices in higher education settings.
6	Hattie J., Timperley H.	2007	The power of feedback.	Hattie and Timperley's seminal article, "The Power of Feedback," published in the Review of Educational Research in 2007, is a significant contribution to the understanding of the role and impact of feedback on student learning outcomes. The article begins by exploring various definitions and forms of feedback, emphasizing its multifaceted nature and its potential to influence student achievement
7	Carless D., Salter D., Yang M., Lam J.	2011	Developing sustainable feedback practices.	Carless, Salter, Yang, and Lam's article, "Developing sustainable feedback practices," published in Studies in Higher Education in 2011 explores strategies for establishing and maintaining effective feedback practices in higher education settings. The article begin by discussing the importance of feedback in supporting

				student learning and promoting academic success.
8	Liu N. F., Carless D.	2006	Peer feedback: the learning element of peer assessment.	In Liu and Carless's article, "Peer feedback: the learning element of peer assessment," published in Teaching in Higher Education in 2006, the focus revolves around the role of peer feedback as a crucial component within peer assessment processes. The article starts by discussing the concept of peer assessment and its growing importance in higher education contexts.

c. Overview of existing systems and their limitations

Quora:

Overview: A general question-and-answer platform where users can ask and answer questions on various topics.

Limitations: It lacks a specific focus on educational contexts, leading to a broad range of topics that can dilute the relevance of answers for juniors seeking faculty insights.

Shiksha:

Overview: An Indian education platform providing college-related information, including reviews and ratings.

Limitations: While useful for general college information, it doesn't offer a specific mechanism for direct knowledge transfer between seniors and juniors about faculty characteristics.

Facebook Groups:

Overview: A social networking platform allowing users to create groups for specific interests or topics.

Limitations: Groups can be broad, and the information shared may not be moderated, leading to misinformation or off-topic discussions.

Stack Overflow:

Overview: A platform for programmers to ask and answer coding-related questions.

Limitations: While it excels in the technical domain, it is not designed for educational knowledge transfer or faculty-related insights.

Careers360, Collegedunia, Collegesearch, Vidyavision:

Overview: Platforms providing college reviews, rankings, and general information for students.

Limitations: They offer a broad overview of colleges but do not focus on specific faculty-related information or facilitate direct knowledge transfer between students.

Faculty 180:

Overview: A faculty management system for universities to track faculty activities and achievements.

Limitations: This system is more administrative and doesn't focus on knowledge sharing among students.

3. Overview of proposed project

a. Motivation

The motivation behind our project is to help juniors navigate their course selections by enabling seniors to share insights about teachers and classroom experiences. This platform aims to create a reliable source of information that fosters a supportive community among students.

b. Aim

The aim of our project, "Knowledge Connect," is to build a website where seniors can share reviews about teachers, giving juniors valuable insights for selecting their courses during FFCS registration. This platform helps juniors understand different teachers and make informed choices, creating a supportive community where students can connect and learn from each other.

c. Objectives

The main objectives of our project, "Knowledge Connect," are to:

- ✓ Facilitate Knowledge Sharing Between Seniors and Juniors
- ✓ Support Course Selection with Real-World Insights
- ✓ Foster a Supportive Student Community
- ✓ Promote Faculty Improvement Through Feedback
- ✓ Ensure Easy Access to Reliable Information

d. Development tools and methodologies to be used

- ✓ PHP, HTML, CSS (for making things work and look good)
- ✓ MySQL (for storing important data)
- ✓ GitHub (for keeping track of changes)
- ✓ ProofHub (for managing the project)

4. Requirements specification of the proposed system

a. Functional requirements specification

- ✓ Login System
- ✓ Faculty Info Access
- ✓ Sharing Knowledge
- ✓ Tracking Progress
- ✓ Talking Together
- ✓ Feedback System

b. Non-functional requirements specification

- ✓ **Usability:** The system must be easy to use and understand. It should have an intuitive interface, allowing users to navigate through the platform without difficulty. This requirement ensures that both seniors and juniors can easily share and access knowledge without technical barriers.
- ✓ **Reliability:** The system must function consistently and reliably. It should not crash or cause data loss, providing a stable platform for users. This requirement ensures that the information shared between seniors and juniors remains intact and accessible at all times.
- ✓ **Security:** The system must ensure the protection of sensitive information. This includes secure user authentication, data encryption, and protection against

unauthorized access. A strong security framework is essential to maintain the confidentiality of data and build trust among users.

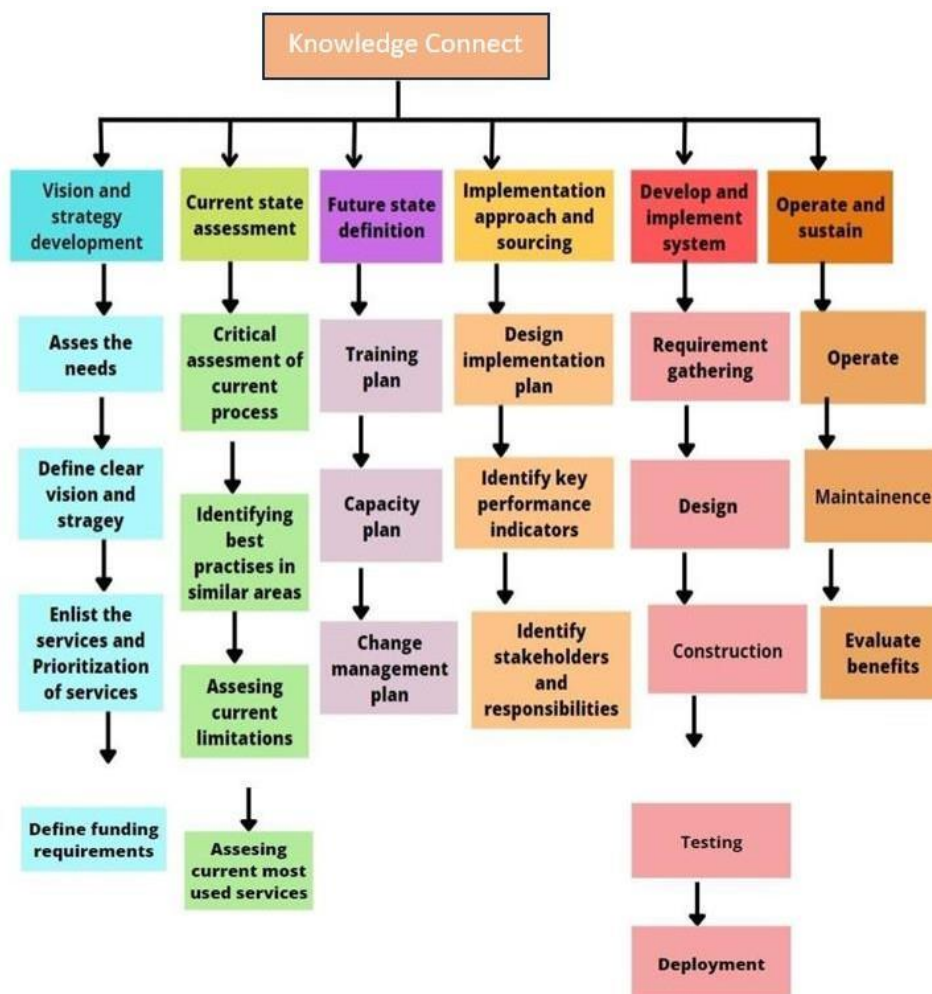
- ✓ **Performance:** The system should perform efficiently, with quick response times and minimal downtime. This requirement ensures a smooth user experience, enabling users to access and share information without delays or technical issues. It is particularly crucial in a knowledge management system where users rely on real-time interactions.

c. Design constraints, if any

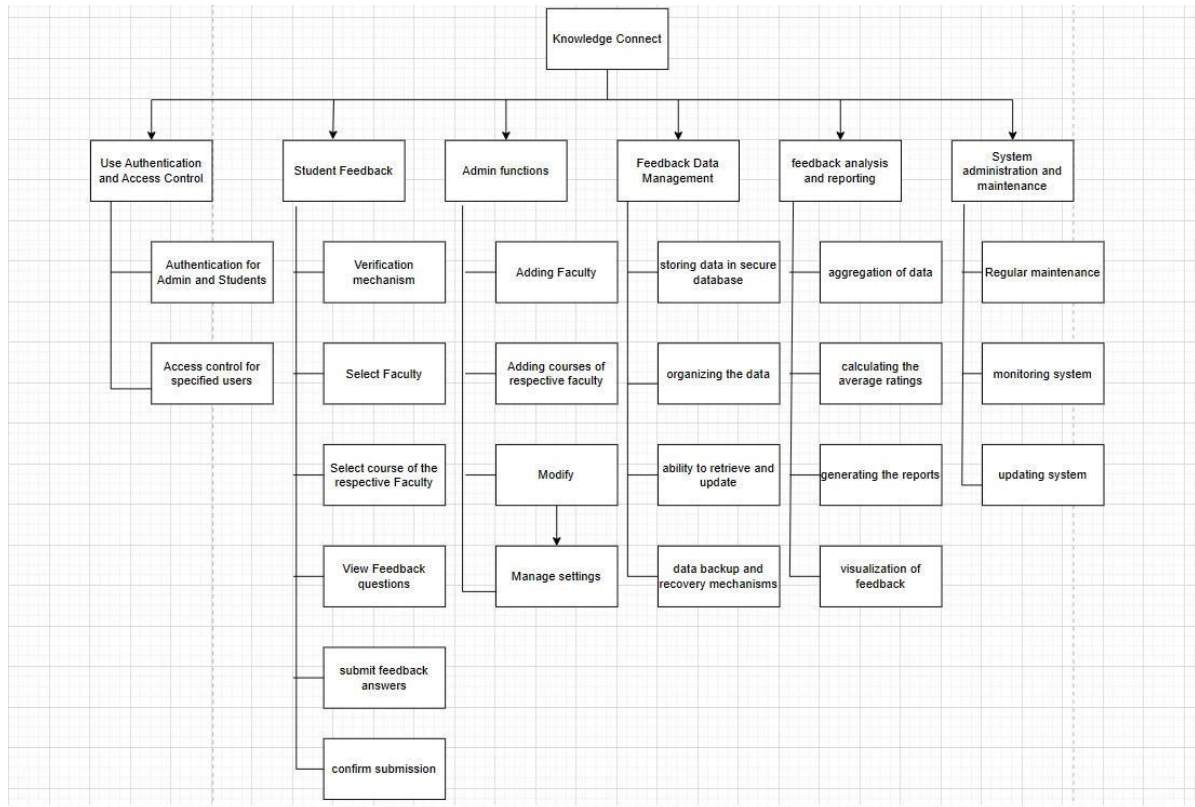
- ✓ Budget Limitations
- ✓ Limited User Access
- ✓ Compatibility Requirements
- ✓ Time Constraints
- ✓ Resource Constraints

5. Project plan

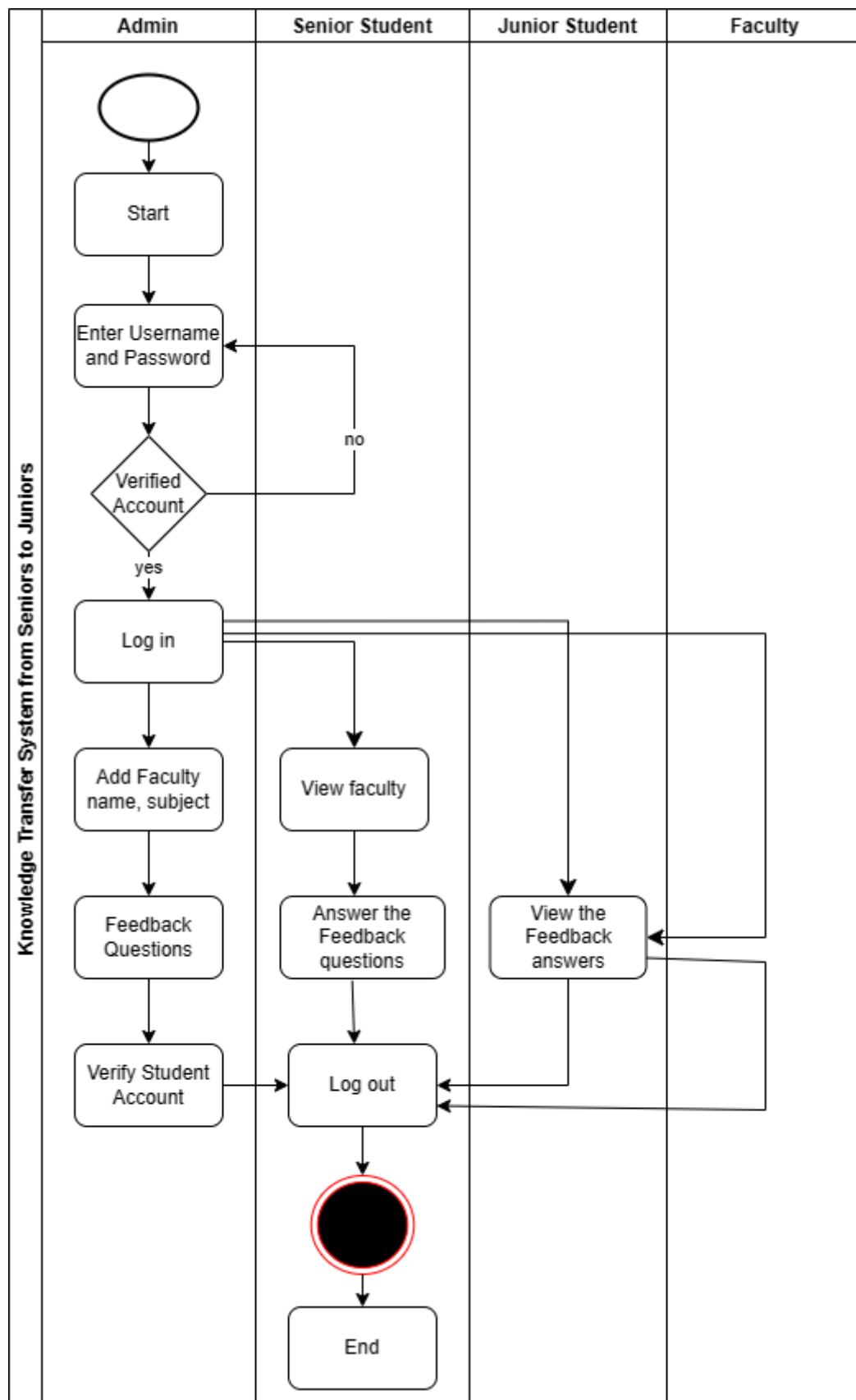
a. Work breakdown structure (WBS) and/or



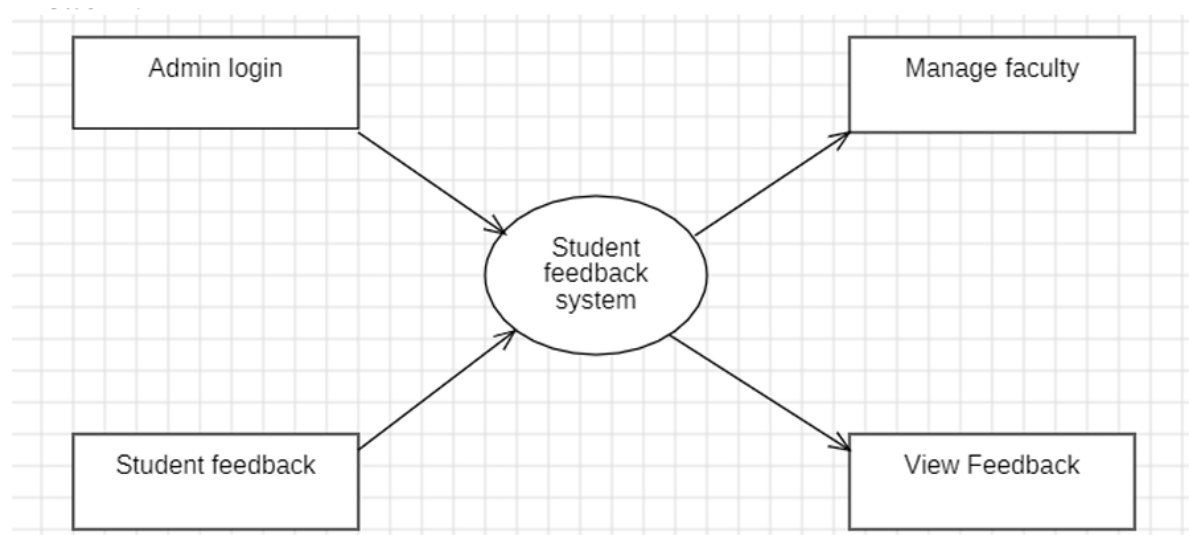
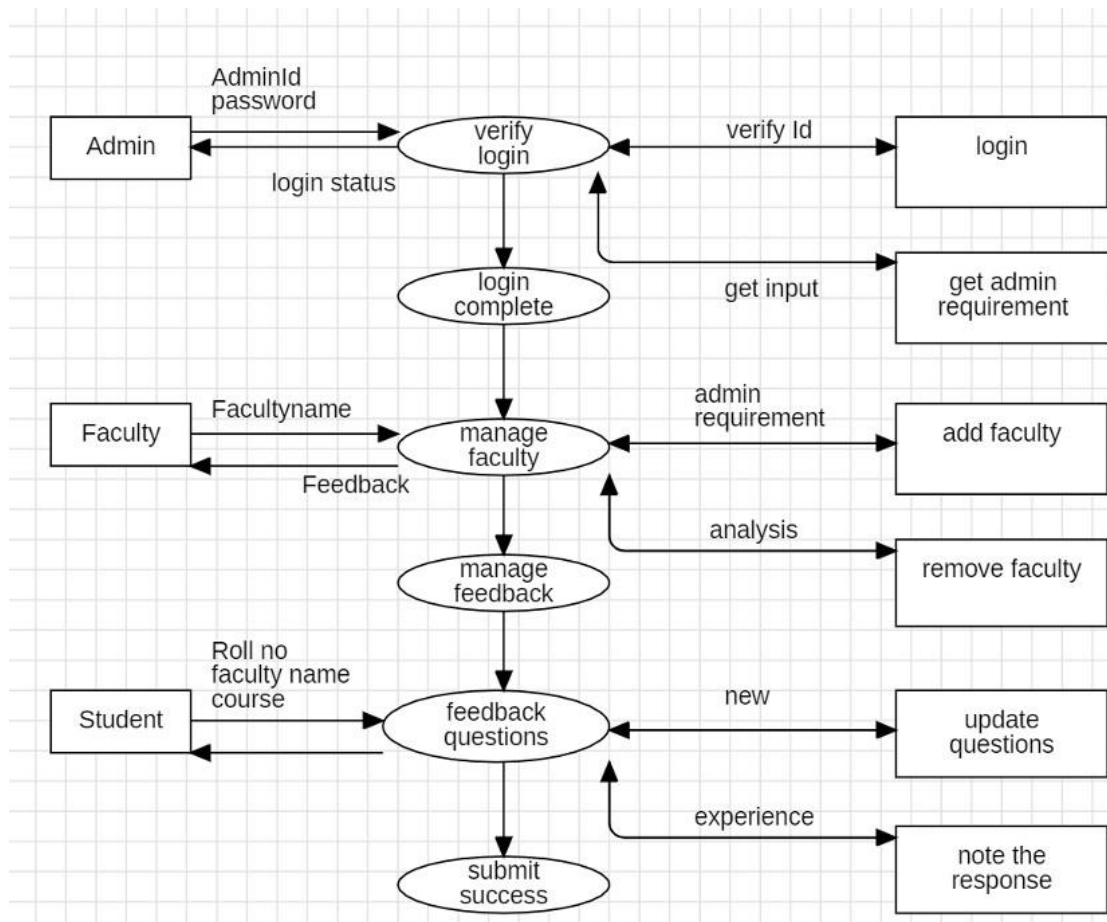
b. Product breakdown structure (PBS)

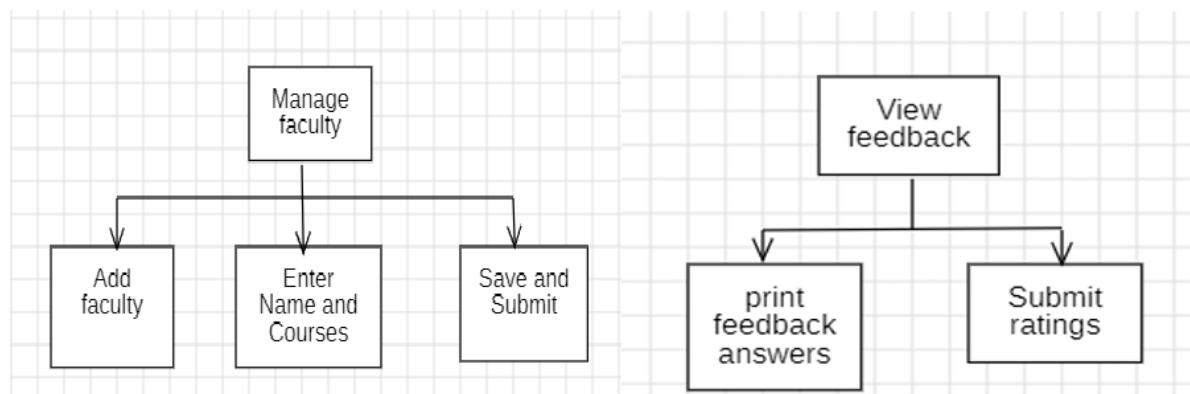
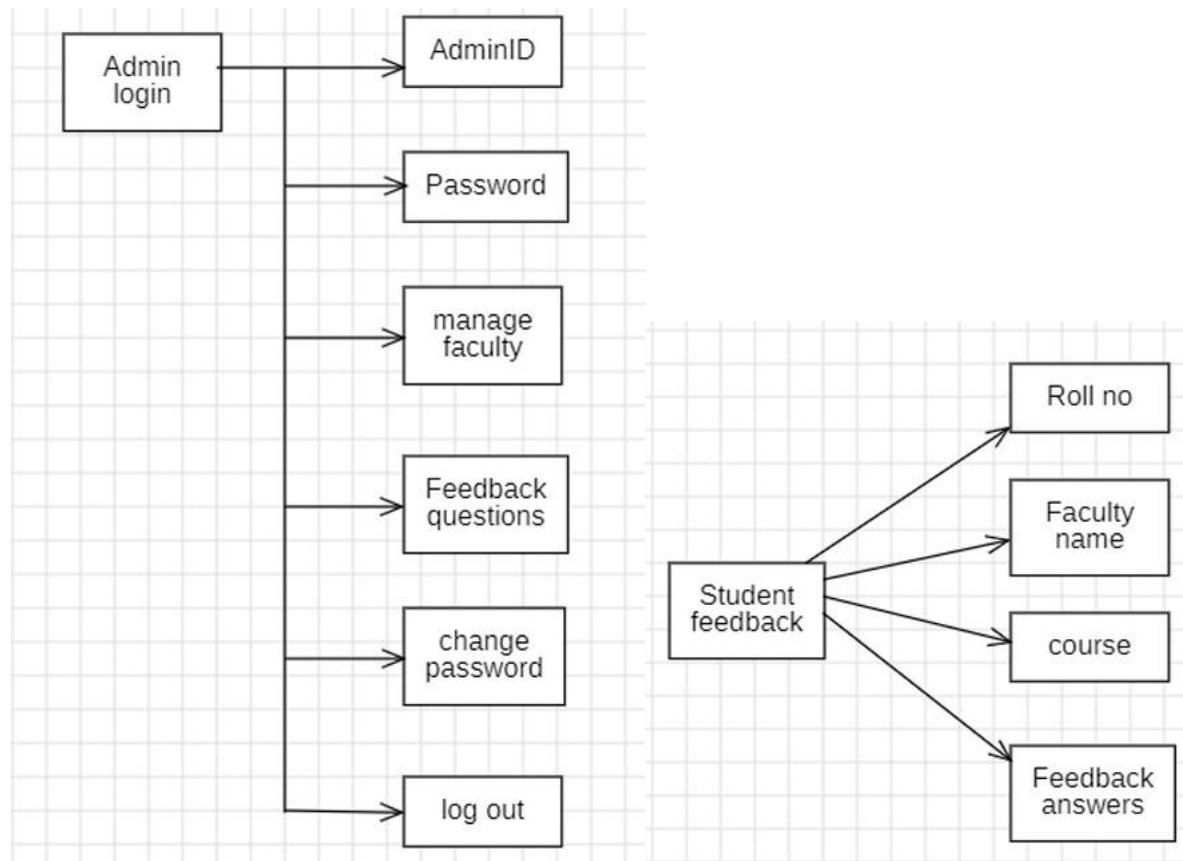


c. Activity diagram



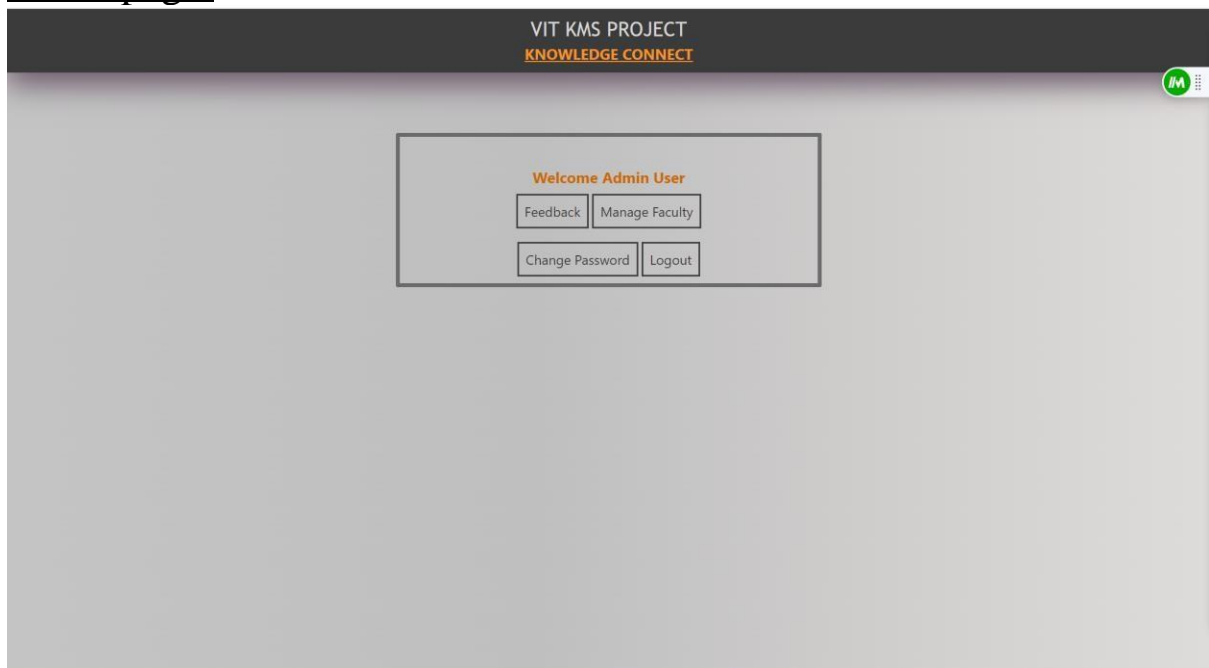
6. System architecture and design



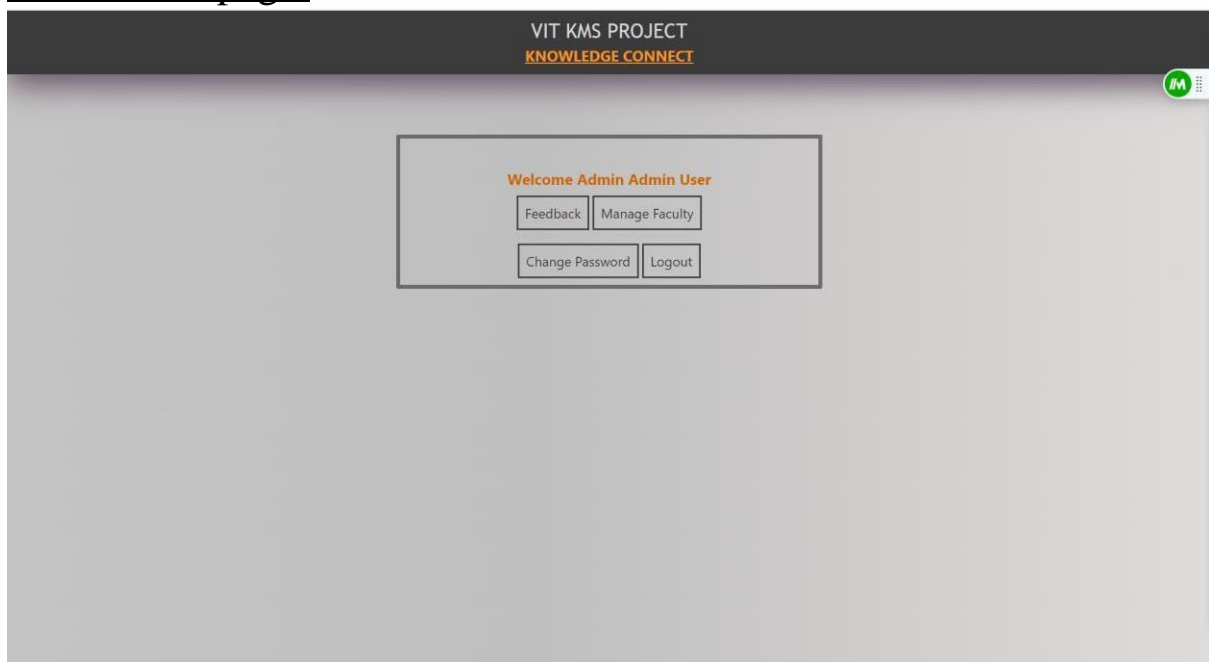


7. Coding or implementation

Home page:



Admin user page:



Viewing feedback by selecting faculty & subject:

VIT KMS PROJECT
KNOWLEDGE CONNECT

View Student Feedback on Faculty

Faculty : -- Select Faculty --
Subject : -- Select Subject --

hari ram vishwakarma (Average Score: 50)
Mohanraj (Average Score: 50)
Nadeth R.K (Average Score: 45)
harshitha patel (Average Score: 43)
Jagadeesh (Average Score: 31.75)
Archana Priya P (Average Score: 30)
rani chandra (Average Score: 10)

Student feedback regarding the faculty:

VIT KMS PROJECT
KNOWLEDGE CONNECT

Faculty Feedback

Faculty Name :	hari ram vishwakarma
Subject :	KMS
1.The workload for assignments/projects given by this faculty?	10
2.The fairness and transparency of the grading system used by this faculty?	10
3.Faculty's engagement with students during lectures or discussions?	10
4.Faculty's use of real-world examples or applications in lectures?	10
5.Faculty's encouragement of critical thinking and problem-solving skills?	10
6.Faculty's encouragement of students to think critically and analytically?	10
7.Faculty's constructive feedback on assignments and exams?	10
8.Faculty's encouragement of collaborative learning among students?	10
9.Balance between theoretical concepts and practical applications in this faculty's teaching?	10
10.Overall rating for this teacher, to help juniors understand if they should take their class?	10
Total Students :	2
Avg_Total :	50
Comments	
~very good faculty ~	

PRINT | BACK

manageFaculty.php

```
<?php
include("configASL.php");
session_start();
if(!isset($_SESSION['aid']))
{
    header("location:index.php");
}
```

```

$aid=$_SESSION['aid'];
$x=mysqli_query($al,"select * from admin where aid='$aid'");
$y=mysqli_fetch_array($x);
$name=$y['name'];

if(!empty($_POST))
{
    $fc=$_POST['fc'];
    $sub=$_POST['sub'];
    $subb=$_POST['subb'];
    $faculty_id = uniqid();
    $u=mysqli_query($al,"insert into faculty(faculty_id,name,s1,s2)
values('$faculty_id','$fc','$sub','$subb')");
    if($u==true)
    {
        ?>
        <script type="application/javascript">
        alert('Successfully added');
        </script>
        <?php }
    }

?>
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>KNOWLEDGE CONNECT</title>
<link href="style.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="topHeader">
    VIT KMS PROJECT<br />
    <span class="tag">KNOWLEDGE CONNECT</span>
</div>
<br>
<br>
<br>
<br>

<div id="content" align="center">
<br>
<br>
<span class="SubHead">Add Faculty</span>
<br>
<br>
<form method="post" action="" >

```

```

<div id="table">
  <div class="tr">
    <div class="td">
      <label>Faculty : </label>
    </div>
    <div class="td">
      <input type="text" name="fc" size="25" required placeholder="Enter
Faculty Name" />
    </div>
  </div>
  <div class="tr">
    <div class="td">
      <label>Subject I : </label>
    </div>
    <div class="td">
      <input type="text" name="sub" size="25" required
placeholder="Enter Subject" />
    </div>
  </div>

  <div class="tr">
    <div class="td">
      <label>Subject II : </label>
    </div>
    <div class="td">
      <input type="text" name="subb" size="25" required
placeholder="Enter Subject" />
    </div>
  </div>
</div>

  <div class="tdd">
    <input type="submit" value="ADD FACULTY" />
  </div>

<br>
<br>

  <span class="SubHead">Manage Faculty</span>
  <br>
<br>

  <table border="0" cellpadding="3" cellspacing="3">
    <tr style="font-weight:bold;">
      <td>Sr. No.</td>

```

```

<td>Name</td>
<td>Subject I</td>
<td>Subject II</td>
<td>Delete</td>

</tr>
<?php
$sr=1;
$h=mysqli_query($al,"select * from faculty");
while($j=mysqli_fetch_array($h))
{
    ?>
    <tr>
    <td><?php echo $sr;$sr++;?></td>
    <td><?php echo $j['name'];?></td>
    <td><?php echo $j['s1'];?></td>
    <td><?php echo $j['s2'];?></td>
    <td align="center"><a href="delete.php?del=<?php echo $j['id'];?>"
onClick="return confirm('Are you sure?')" style="text-decoration:none;font-
size:18px;color:rgba(255,0,4,1.00);">[x]</a></td>
    </tr>
    <?php } ?>
</table>
<br>

<input type="button" onClick="window.location='home.php'" value="BACK">
<br>
<br>
</div>
</form>

<br>
<br>
<br>

<br>
<br>

</div>
</body>
</html>

```

home.php

```

<?php
include("configASL.php");
session_start();
if(!isset($_SESSION['aid']))

```

```

{
    header("location:index.php");
}
$aid=$_SESSION['aid'];
$x=mysqli_query($al,"select * from admin where aid='$aid'");
$y=mysqli_fetch_array($x);
$name=$y['name'];

?>
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>KNOWLEDGE CONNECT</title>
<link href="style.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="topHeader">
    VIT KMS PROJECT<br />
    <span class="tag">KNOWLEDGE CONNECT</span>
</div>
<br>
<br>
<br>
<br>

<div id="content" align="center">
<br>
<br>
<span class="SubHead">Welcome Admin <?php echo $name;?></span>
<br>
<br>

<a href="feeds.php" class="button">Feedback</a>
<a href="manageFaculty.php" class="button">Manage Faculty</a>
<br>
<br>
<br>
<a href="changePass.php" class="button">Change Password</a>
<a href="logout.php" class="button">Logout</a>
<br>
<br>

</div>
</body>
</html>

```


8. Testing

Extension: (Selenium IDE) - Selenium IDE - student feedback — Mo...

Project: student feedback

Tests +

Search tests...

✓ totaltest

http://localhost

	Command	Target	Value
1	✓ open	/Teacher-Student-Feedback-System-...	
2	✓ set window size	1550x830	
3	✓ click	name=aid	
4	✓ click	name=aid	

Command: open //

Target: /Teacher-Student-Feedback-S

Value:

Description:

Log Reference

Running 'totaltest' 23:57:17

1. open on /Teacher-Student-Feedback-System-main/index.php OK 23:57:17
2. setWindowSize on 1550x830 OK 23:57:17
3. click on name=aid OK 23:57:17
4. click on name=aid OK 23:57:17

Tests ▾

+



http://localhost

✓ totaltest

Command

Target

Value

9

✓ *click*

linkText=Feed
back

10

✓ mouse down at

```
name=faculty
_id
```

-729.7166748
046875,-252.1
999969482....

11

✓ mouse m
ove at

```
name=faculty
id
```

-729.7166748
046875,-252.1

Command

open

//



Target

/Teacher-Student-Feedback-S



Value

Description

Log

Reference



9. click on linkText=Feedback OK

23:57:18

10. mouseDownAt on name=faculty_id with value -729.7166748046875, -252.1999969482422 OK

23:57:19

11. mouseMoveAt on name=faculty_id with value -729.7166748046875, -252.1999969482422 OK

23:57:19

Extension: (Selenium IDE) - Selenium IDE - student feedback — Mo...

Project: student feedback

Tests +

Search tests...

✓ totaltest

▶ ▶ ⌂ ⌚

http://localhost

	Command	Target	Value
5	✓ type	name=aid	admin
6	✓ click	name=pass	
7	✓ type	name=pass	admin
8	✓ click	css=.tdd > input	

Command

open

//

Target

/Teacher-Student-Feedback-S

Value

Description

Log

Reference

5. type on name=aid with value admin OK

23:57:18

6. click on name=pass OK

23:57:18

7. type on name=pass with value admin OK

23:57:18

8. click on css=.tdd > input OK

23:57:18

Project: student feedback



Tests ▾

+

Search tests...

Q

✓ totaltest

⏮

▶

⌂

⌚

⏸

⏹

⏻

⏼

http://localhost

▾

	Command	Target	Value
19	✓ click	name=subject	
20	✓ select	name=subject	label=PHP
21	✓ click	css=td:nth-child(1) option:nth-child(2)	
22	✓ click	css=input:nth-child(10)	

Command

open ▾

//

⏮

Target

/Teacher-Student-Feedback-S

⏮

Q

Value

Description

Log Reference

19. click on name=subject	OK	23:57:20
20. select on name=subject with value label=PHP	OK	23:57:20
21. click on css=td:nth-child(1) option:nth-child(2)	OK	23:57:21
22. click on css=input:nth-child(2)	OK	23:57:21
23. click on css=input:nth-child(10)	OK	23:57:21
24. click on css=input:nth-child(1)	OK	23:57:21
25. click on css=body	OK	23:57:21

Project: student feedback



Tests ▾

+

Search tests...

Q

✓ totaltest

⏮

▶

⌂

⌚

⏏

⏏

⏏

⏏

http://localhost

▾

	Command	Target	Value
16	✓ mouse do wn at	name=subject	-732.7166748 046875,-280
17	✓ mouse m ove at	name=subject	-732.7166748 046875,-280
18	✓ mouse up at	name=subject	-732.7166748 046875,-280

Command

open ▾

//

⌂

Target

/Teacher-Student-Feedback-S

⌂

Q

Value

Description

Log	Reference	
16. mouseDownAt on name=subject with value -732.7166748046875,-280	OK	23:57:20
17. mouseMoveAt on name=subject with value -732.7166748046875,-280	OK	23:57:20
18. mouseUpAt on name=subject with value -732.7166748046875,-280	OK	23:57:20
19. click on name=subject	OK	23:57:20
20. select on name=subject with value label=PHP	OK	23:57:20
21. click on css=.td:nth-child(1) option:nth-child(2)	OK	23:57:21

9. Result analysis, conclusion and future scope

Result Analysis:

The website, "Knowledge Connect," has effectively enabled seniors to share their reviews about faculty, providing juniors with valuable insights for their course selections. This has improved the process of choosing courses and fostered a supportive student community.

Conclusion:

The project has made it easier for juniors to make informed choices during course registration. It has also promoted a sense of community by allowing seniors to share their knowledge

Future Scope:

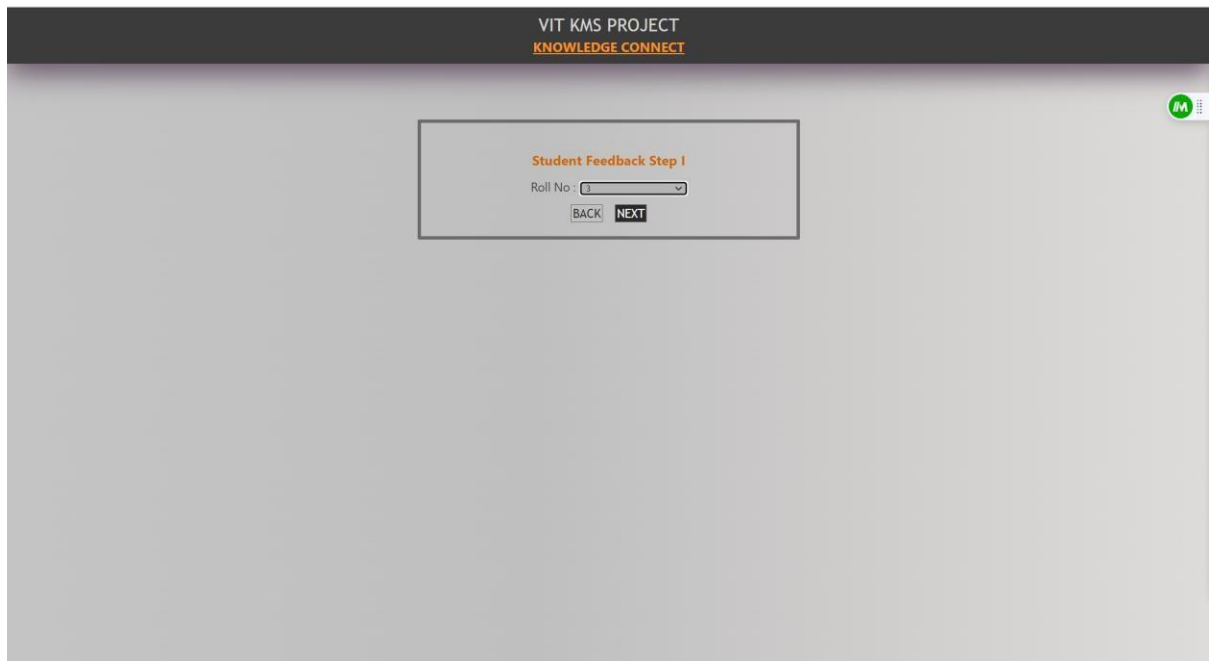
We plan to add more interactive features to the platform and explore integration with other educational tools. This will make the system even more useful for students in the future.

- Annexure-1: References

1. <https://www.brightspot.com/cms-use-cases/knowledge-base>
2. <https://www.nngroup.com/articles/web-form-design/>
3. https://owasp.org/www-project-web-security-testing-guide/latest/4-Web_Application_Security_Testing/02-Configuration_and_Deployment_Management_Testing/05-Enumerate_Infrastructure_and_Application_Admin_Interfaces
4. <https://helpjuice.com/blog/open-source-versus-saas-knowledge-base>
5. <https://www.php.net/manual/en/function.password-hash.php>
6. https://www.w3schools.com/sql/sql_select.asp
7. <https://eric.ed.gov/?id=EJ1172381>

- Annexure-2: Sample screen shots

Student Feedback Step 1: select roll number



The screenshot shows a web application interface for 'VIT KMS PROJECT KNOWLEDGE CONNECT'. The header is dark grey with the project name in white and orange. A green circular logo with 'KMS' is in the top right. The main content area is light grey. A central white box contains the title 'Student Feedback Step I' in orange. Below it, 'Roll No:' is followed by a text input field containing '3'. At the bottom of the box are two buttons: 'BACK' and 'NEXT'.

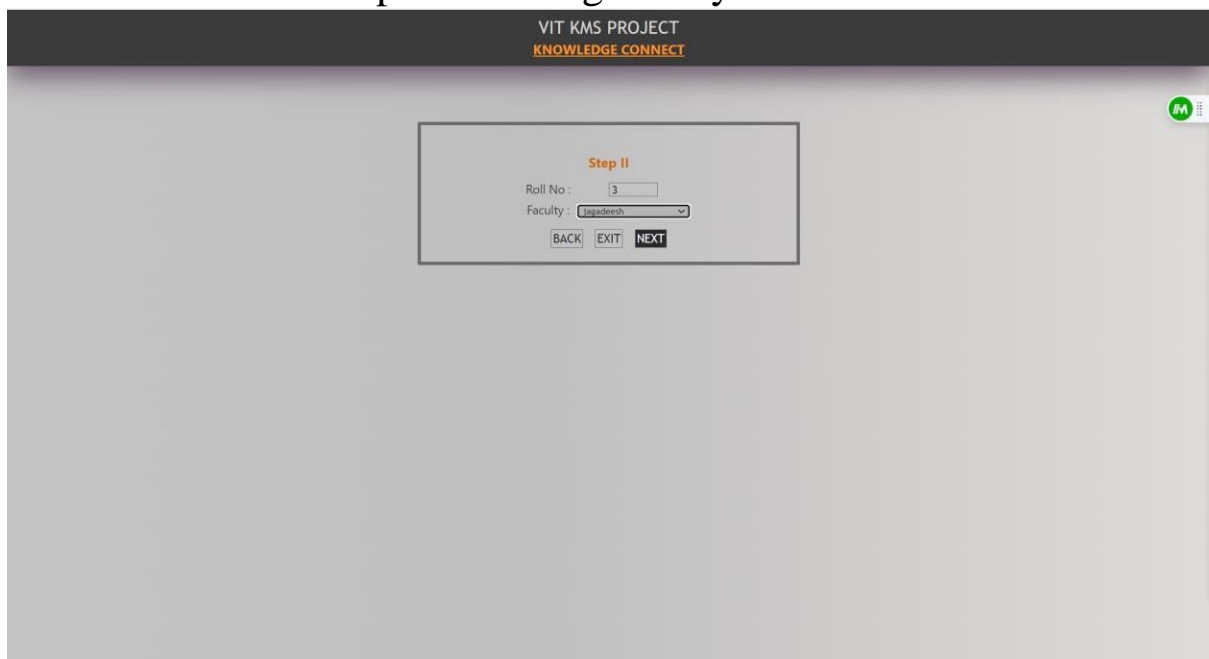
VIT KMS PROJECT
KNOWLEDGE CONNECT

Student Feedback Step I

Roll No : 3

BACK NEXT

Student Feedback Step 2: selecting faculty



The screenshot shows the same web application interface as Step 1. The central white box now contains the title 'Step II' in orange. Below it, 'Roll No:' is followed by a text input field containing '3'. 'Faculty:' is followed by a dropdown menu showing 'Jagadeesh'. At the bottom of the box are three buttons: 'BACK', 'EXIT', and 'NEXT'.

VIT KMS PROJECT
KNOWLEDGE CONNECT

Step II

Roll No : 3

Faculty : Jagadeesh

BACK EXIT NEXT

Student Feedback Step 3: selecting the subject

VIT KMS PROJECT
KNOWLEDGE CONNECT

Step III

Roll No :

Faculty :

Subject :

Student Feedback Step 4: giving review for the faculty and submitting

VIT KMS PROJECT
KNOWLEDGE CONNECT

Step III

Roll No :

Faculty :

Subject :

1. How would you rate the workload for assignments/projects given by this faculty? :
☐ Poor ☐ Fair ☐ Good ☒ Very Good ☐ Excellent

2. How would you rate the fairness and transparency of the grading system used by this faculty? :
☐ Poor ☐ Fair ☐ Good ☒ Very Good ☐ Excellent

3. How would you rate the faculty's engagement with students during lectures or discussions? :
☐ Poor ☐ Fair ☐ Good ☒ Very Good ☐ Excellent

4. How would you rate the faculty's use of real-world examples or applications in lectures? :
☐ Poor ☐ Fair ☐ Good ☒ Very Good ☐ Excellent

5. How would you rate the faculty's encouragement of critical thinking and problem-solving skills? :
☐ Poor ☐ Fair ☐ Good ☒ Very Good ☐ Excellent

6. How would you rate the faculty's encouragement of students to think critically and analytically? :
☐ Poor ☐ Fair ☐ Good ☒ Very Good ☐ Excellent

7. How would you rate the faculty's constructive feedback on assignments and exams? :
☐ Poor ☐ Fair ☐ Good ☒ Very Good ☐ Excellent

8. How would you rate the faculty's encouragement of collaborative learning among students? :
☐ Poor ☐ Fair ☐ Good ☒ Very Good ☐ Excellent

9. How would you rate the balance between theoretical concepts and practical applications in this faculty's teaching? :
☐ Poor ☐ Fair ☐ Good ☒ Very Good ☐ Excellent

10. How would you rate this faculty overall for Juniors considering taking their course? :
☐ Poor ☐ Fair ☐ Good ☒ Very Good ☐ Excellent

good faculty

- Annexure-3: Sample source code listing

Feedback.php

```
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Student Feedback System</title>
<link href="style.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="topHeader">
    VIT KMS PROJECT<br />
    <span class="tag">KNOWLEDGE CONNECT</span>
</div>
<br>
<br>
<br>
<br>

<div id="content" align="center">
<br>
<br>
<span class="SubHead">Student Feedback Step I</span>
<form method="post" action="feedback_step_2.php" >
<div id="table">

    <div class="tr">
        <div class="td">
            <label>Roll No : </label>
        </div>
        <div class="td">
            <select name="roll" required>
                <option value="NA" disabled selected> - - Select Roll No. - -
            </option>
            <?php
                for($x=1;$x<=200;$x++)
                {
                    ?>
                    <option value="<?php echo $x;?>"><?php echo $x;?></option>
                    <?php } ?>
                </select>
            </div>
        </div>
    </div>
</div>
```

```

        <div class="tdd">
            <input type="button" onClick="window.location='index.php'"
value="BACK">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="submit" value="NEXT" />
        </div>

        <br>
    </div>
</form>
<br>

</body>
</html>

```

Feedback_step_2.php

```

<?php
include "configASL.php";
session_start();
if(isset($_POST['roll']))
{
    $_SESSION['roll']=$_POST['roll'];
}

?>
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>KNOWLEDGE CONNECT</title>
<link href="style.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="topHeader">
    VIT KMS PROJECT<br />
    <span class="tag">KNOWLEDGE CONNECT</span>
</div>
<br>
<br>
<br>
<br>

<div id="content" align="center">
<br>
<br>
<span class="SubHead">Step II</span>
<form method="post" action="feedback_step_3.php" >
<div id="table">

```

```

<div class="tr">
  <div class="td">
    <label>Roll No : </label>
  </div>
  <div class="td">
    <input type="text" disabled size="5" value="<?php echo
$_SESSION['roll'];?>" />
  </div>
</div>
<div class="tr">
  <div class="td">
    <label>Faculty : </label>
  </div>
  <div class="td">
    <div class="td">
      <select name="faculty_id" required>
        <option value="NA" disabled selected> - - Select Faculty - -
</option>
        <?php
        $x=mysqli_query($al,"select * from faculty");
        while($y=mysqli_fetch_array($x))
        {
          ?>
          <option value="<?php echo $y['faculty_id'];?>"><?php echo
$y['name'];?></option>
          <?php } ?>
        </select>
      </div>
    </div>
  </div>
</div>
</div>

  <div class="tdd">
    <input type="button" onClick="window.location='feedback.php'"
value="BACK">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="button"
onClick="window.location='exit.php'"
value="EXIT">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="submit" value="NEXT" />
  </div>

  <br>
</div>
</form>
<br>

</body>
</html>

```

Feedback_step_3.php

```
<?php
include "configASL.php";
session_start();
if(isset($_POST['roll']))
{
    $_SESSION['roll']=$_POST['roll'];
}

if(isset($_POST['faculty_id']))
{
    $_SESSION['faculty_id']=$_POST['faculty_id'];
}

//Fetch Faculty Name
$nm = mysqli_fetch_array(mysqli_query($al, "SELECT * FROM faculty WHERE
faculty_id='".$_SESSION['faculty_id']."'"));
$_SESSION['name'] = $nm['name'];
?>
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Student Feedback System</title>
<link href="style.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="topHeader">
    VIT KMS PROJECT<br />
    <span class="tag">KNOWLEDGE CONNECT</span>
</div>
<br>
<br>
<br>
<br>

<div id="content" align="center">
<br>
<br>
<span class="SubHead">Step III</span>
<form method="post" action="feedback_step_4.php" >
<div id="table">
    <div class="tr">
        <div class="td">
            <label>Roll No : </label>
        </div>
        <div class="td">
```

```

        <input type="text" disabled size="5" value="<?php echo
$_SESSION['roll'];?>" />
        <input type="hidden" value="<?php echo $_SESSION['roll'];?>"
name="roll" />
    </div>
</div>
<div class="tr">
    <div class="td">
        <label>Faculty : </label>
    </div>

    <div class="td">
        <input type="text" disabled size="25" value="<?php echo
$_SESSION['name'];?>" />
        <input type="hidden" value="<?php echo $_SESSION['faculty_id'];?>"
name="faculty_id" />
    </div>
</div>

    <div class="tr">
    <div class="td">
        <label>Subject : </label>
    </div>

    <div class="td">
        <select name="subject" required>
            <option value="NA" disabled selected> - - Select Subject - -
</option>
            <?php
                $x=mysqli_query($al,"select distinct s1,s2 from faculty WHERE
faculty_id='".$$_SESSION['faculty_id']."'");
                while($y=mysqli_fetch_array($x))
                {
                    ?>
                    <option value="<?php echo $y['s1'];?>"><?php echo
$y['s1'];?></option>
                    <option value="<?php echo $y['s2'];?>"><?php echo
$y['s2'];?></option>

                    <?php } ?>
                </select>
            </div>
        </div>

```

```

</div>

        <div class="tdd">
            <input type="button"
onClick="window.location='feedback_step_2.php'"
value="BACK">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="submit" value="NEXT" />
        </div>

    <br>
</div>
</form>
<br>

</body>
</html>

```

Feedback_step_4.php

```

<?php
include "configASL.php";
session_start();

$sql=mysqli_query($al,"select * from feeds where
roll='".mysqli_real_escape_string($al,$_POST['roll'])."' AND
name='".mysqli_real_escape_string($al,$_POST['faculty'])."' AND
subject='".mysqli_real_escape_string($al,$_POST['subject']).'");

if(mysqli_num_rows($sql)>0)
{
    ?>
    <script type="text/javascript">
    alert('Feedback already submitted');
    window.location='feedback_step_3.php';
    </script>
    <?php
}

if(isset($_POST['roll']))
{
    $_SESSION['roll']=$_POST['roll'];
}

if(isset($_POST['faculty_id']))
{
    $_SESSION['faculty_id']=$_POST['faculty_id'];
}

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

```

```

{
    $_SESSION['subject']=$_POST['subject'];
}
//Fetch Questions
$q = mysqli_fetch_array(mysqli_query($al, "SELECT * FROM questions WHERE id = '1'"));
$parameters = array("Poor","Fair","Good","Very Good","Excellent");
?>
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Student Feedback System</title>
<link href="style.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="topHeader">
    VIT KMS PROJECT<br />
    <span class="tag">KNOWLEDGE CONNECT</span>
</div>
<br>
<br>
<br>
<br>

<div id="content" align="center">
<br>
<br>
<span class="SubHead">Step III</span>
<form method="post" action="feedback_step_5.php" >
<div id="table">
    <div class="tr">
        <div class="td">
            <label>Roll No : </label>
        </div>
        <div class="td">
            <input type="text" disabled size="5" value="<?php echo
$_SESSION['roll'];?>" />
            <input type="hidden" value="<?php echo $_SESSION['roll'];?>"
name="roll" />
        </div>
    </div>
    <div class="tr">
        <div class="td">
            <label>Faculty : </label>
        </div>

```


[illegible]

```

                                </div>
        <input type="button"
onClick="window.location='feedback_step_3.php'"
value="BACK">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="submit" value="SUBMIT"
onClick="return confirm('Are you sure?')" />
        <br>
<br>

    </div>

    <br>
</div>
</form>
<br>

</body>
</html>

```

Feedback_step_5.php

```

<?php
include "configASL.php";
session_start();
if(!empty($_POST))
{
    $roll=$_POST['roll'];
    $sub=$_POST['subject'];
    $faculty_id=$_POST['faculty_id'];
    $q1=$_POST['q1'];
    $q2=$_POST['q2'];
    $q3=$_POST['q3'];
    $q4=$_POST['q4'];
    $q5=$_POST['q5'];
    $q6=$_POST['q6'];
    $q7=$_POST['q7'];
    $q8=$_POST['q8'];
    $q9=$_POST['q9'];
    $q10=$_POST['q10'];
    $total = $q1 + $q2 + $q3 + $q4 + $q5 + $q6 + $q7 + $q8 + $q9 + $q10;
    $per=($total/50)*100;
    $x=mysqli_query($al,"insert into
feeds(faculty_id,roll,name,subject,q1,q2,q3,q4,q5,q6,q7,q8,q9,q10,total,percen
t)
values('".$_faculty_id."','".$roll."','".$_SESSION['name']."','$sub','$q1','$q2','$
q3','$q4','$q5','$q6','$q7','$q8','$q9','$q10','$total','$per')");
    mysqli_query($al,"INSERT INTO comments(faculty_id,comment)
VALUES('".$_faculty_id."','".$_POST['comment']."')");
    if($x==true)
    {

```

```

    ?>

    <script type="text/javascript">
    alert('Feedback successfully submitted');
    window.location='feedback_step_2.php';
    </script>

    <?php
}}
    ?>

```

feeds.php

```

<?php
include("configASL.php");
session_start();
if(!isset($_SESSION['aid']))
{
    header("location:index.php");
}
$aid=$_SESSION['aid'];
$x=mysqli_query($al,"select * from admin where aid='$aid'");
$y=mysqli_fetch_array($x);
$name=$y['name'];

?>
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Student Feedback System</title>
<link href="style.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="topHeader">
    VIT KMS PROJECT<br />
    <span class="tag">KNOWLEDGE CONNECT</span>
</div>
<br>
<br>
<br>
<br>

<div id="content" align="center">
<br>
<br>
<span class="SubHead">Student Feedback</span>

```

```

<br>
<br>

<form method="post" action="feeds_2.php" >
<div id="table">
    <div class="tr">
        <div class="td">
            <label>Faculty : </label>
        </div>
        <div class="td">
            <select name="faculty_id" required>
                <option value="NA" disabled selected> - - Select Faculty - -
</option>
                <?php
                $x=mysqli_query($a1,"select * from faculty");
                while($y=mysqli_fetch_array($x))
                {
                    ?>
                    <option value="<?php echo $y['faculty_id'];?>"><?php echo
$y['name'];?></option>
                    <?php } ?>
                </select>
            </div>
        </div>
        <div class="tr">
            <div class="td">
                <label>Subject : </label>
            </div>
            <div class="td">
                <div class="td">
                    <select name="subject" required>
                        <option value="NA" disabled selected> - - Select Subject - -
</option>
                        <?php
                        $x=mysqli_query($a1,"select * from faculty");
                        while($y=mysqli_fetch_array($x))
                        {
                            ?>
                            <option value="<?php echo $y['s1'];?>"><?php echo
$y['s1'];?></option>
                            <option value="<?php echo $y['s2'];?>"><?php echo
$y['s2'];?></option>
                            <?php } ?>
                        </select>
                    </div>
                </div>
            </div>

```

```

</div>
</div>

        <div class="tdd">
            <input type="button" onClick="window.location='home.php'"
value="BACK">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="submit" value="NEXT" />
        </div>

        <br>
</div>
</form>

</div>
</body>
</html>

```

feeds_2.php

```

<?php
include("configASL.php");
session_start();
if(!isset($_SESSION['aid']))
{
    header("location:index.php");
}
$aid=$_SESSION['aid'];
$x=mysqli_query($al,"select * from admin where aid='$aid'");
$y=mysqli_fetch_array($x);
$name=$y['name'];

if(!empty($_POST))
{
    $faculty_id=$_POST['faculty_id'];
    //Fetch Name
    $name = mysqli_fetch_array(mysqli_query($al,"SELECT * FROM faculty WHERE
faculty_id='".$faculty_id.'"));
    $subject=$_POST['subject'];
    $sql=mysqli_query($al,"select * from feeds where faculty_id='$faculty_id'
AND subject='$subject'");
    while($z=mysqli_fetch_array($sql))
    {
        $q1 = $q1 + $z['q1'];
        $q2 = $q2 + $z['q2'];
        $q3 = $q3 + $z['q3'];
        $q4 = $q4 + $z['q4'];
        $q5 = $q5 + $z['q5'];
        $q6 = $q6 + $z['q6'];
        $q7 = $q7 + $z['q7'];
        $q8 = $q8 + $z['q8'];
    }
}

```

```

        $q9 = $q9 + $z['q9'];
        $q10 = $q10 + $z['q10'];
        $total = $q1 + $q2 + $q3 + $q4 + $q5 + $q6 + $q7 + $q8 + $q9 + $q10;
        $s++;
    }
}
?>
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Student Feedback System</title>
<link href="style.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="topHeader">
    VIT KMS PROJECT<br />
    <span class="tag">KNOWLEDGE CONNECT</span>
</div>
<br>
<br>
<br>
<br>

<div id="content" align="center" style="width:600px;">
<br>
<br>
<span class="SubHead">Student Feedback</span>
<br>
<br>

<table border="0" cellpadding="4" cellspacing="4">
<tr><td style="font-weight:bold;">Faculty Name : </td><td><?php echo
$name['name'];?></td></tr>
<tr><td style="font-weight:bold;">Subject : </td><td><?php echo
$subject;?></td></tr>
<tr>
    <td style="font-weight:bold;">1.The workload for
assignments/projects given by this faculty?</td>
    <td><?php echo $q1; ?></td>
</tr>
<tr>
    <td style="font-weight:bold;">2.The fairness and transparency of
the grading system used by this faculty?</td>
    <td><?php echo $q2; ?></td>
</tr>

```

```

        <tr>
            <td style="font-weight:bold;">3.Faculty's engagement with students
during lectures or discussions?</td>
            <td><?php echo $q3; ?></td>
        </tr>
        <tr>
            <td style="font-weight:bold;">4.Faculty's use of real-world
examples or applications in lectures?</td>
            <td><?php echo $q4; ?></td>
        </tr>
        <tr>
            <td style="font-weight:bold;">5.Faculty's encouragement of
critical thinking and problem-solving skills?</td>
            <td><?php echo $q5; ?></td>
        </tr>
        <tr>
            <td style="font-weight:bold;">6.Faculty's encouragement of
students to think critically and analytically?</td>
            <td><?php echo $q6; ?></td>
        </tr>
        <tr>
            <td style="font-weight:bold;">7.Faculty's constructive feedback on
assignments and exams?</td>
            <td><?php echo $q7; ?></td>
        </tr>
        <tr>
            <td style="font-weight:bold;">8.Faculty's encouragement of
collaborative learning among students?</td>
            <td><?php echo $q8; ?></td>
        </tr>
        <tr>
            <td style="font-weight:bold;">9.Balance between theoretical
concepts and practical applications in this faculty's teaching?</td>
            <td><?php echo $q9; ?></td>
        </tr>
        <tr>
            <td style="font-weight:bold;">10.Overall rating for this teacher,
to help juniors understand if they should take their class?</td>
            <td><?php echo $q10; ?></td>
        </tr>
        <tr><td style="font-weight:bold;">Total Students :</td><td><?php echo
$s;?></td></tr>
        <tr><td style="font-weight:bold;">Total :</td><td><?php echo
$total;?></td></tr>
        <tr><td style="font-weight:bold;" colspan="2"
align="center">Comments</td></tr>
        <tr><td colspan="2">

```

```
<?php $cc = mysqli_query($al, "SELECT * FROM comments WHERE faculty_id
= ' ".$faculty_id." ' ORDER BY id DESC");
while($pr = mysqli_fetch_array($cc))
{
    echo "~".$pr['comment']."~";
}
?>
</td>
</tr>
</table>
<br>
<br>
<input type="button" onClick="window.print();" value="PRINT">&nbsp;<input
type="button" onClick="window.location='feeds.php'" value="BACK">
<br>
<br>

</div>
</body>
</html>
```


SWE2027- Knowledge Management Systems

Report Template for Review-2 of Project-based Component (To be submitted on or before 20th March 2024)

(A) Project Title: “Knowledge Connect: Empowering Your Faculty Choices with Senior Insights”

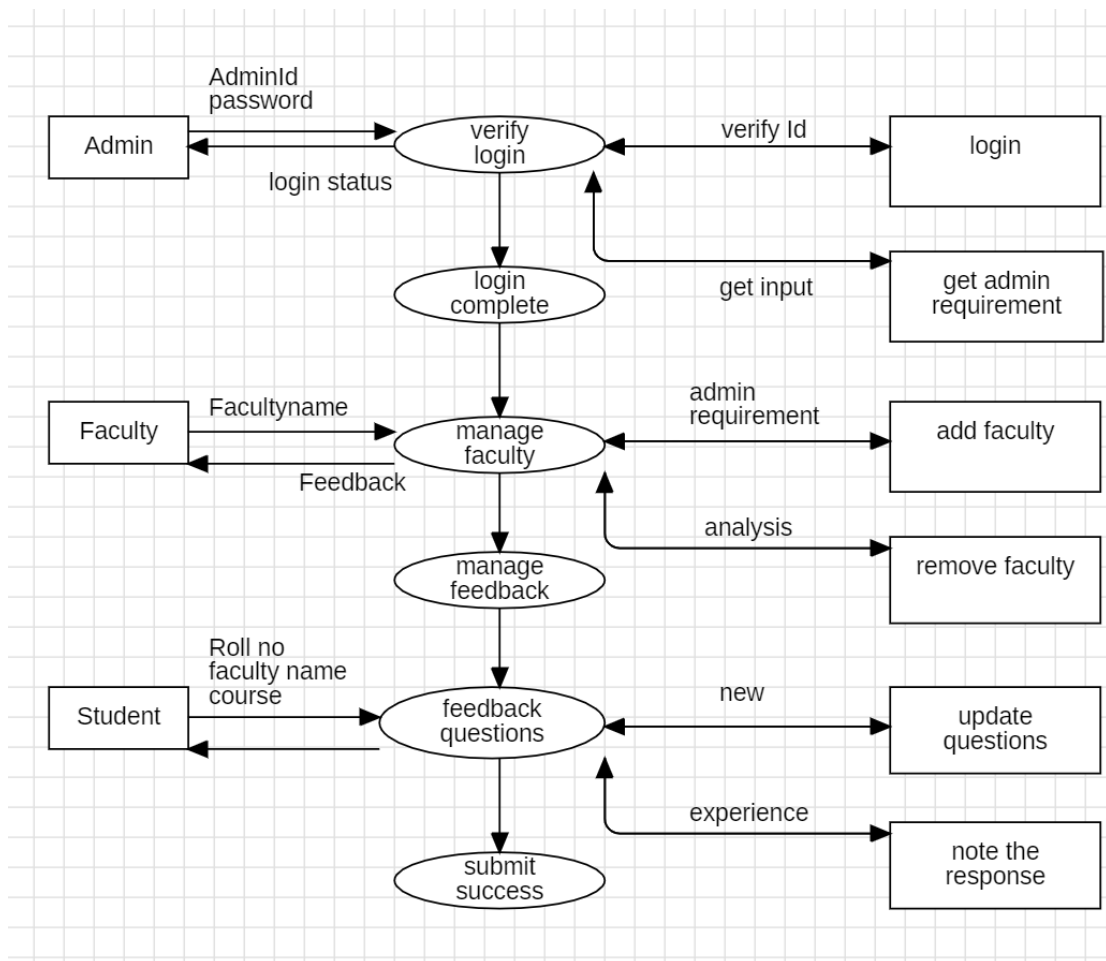
(B) Project Team		
Reg.No./Slot	Student Name	Signature
21MIS0211/A2	Chinthaparthi Archana	Archana
21MIS0033/A2	Gali Tejasree	Tejasree
21MIS0454/A2	Harshini V	Harshini

Q1. Illustrate and briefly discuss the architectural design (i.e. high-level design) of the system.

Answer-1:

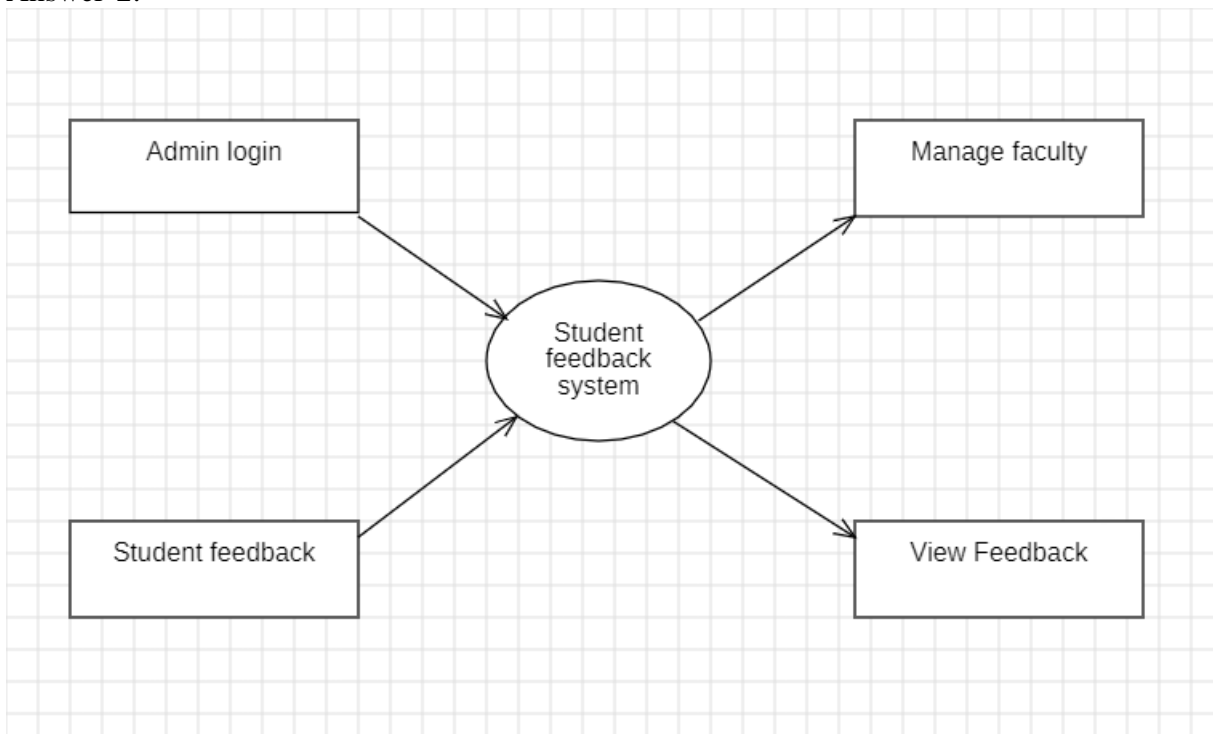
“Knowledge Connect: Empowering Your Course Choices with Senior Insights” is a website where seniors share faculty reviews to benefit juniors. Additional functionalities and modules include:-

- ✓ login
- ✓ admin
- ✓ student
- ✓ faculty
- ✓ feedback



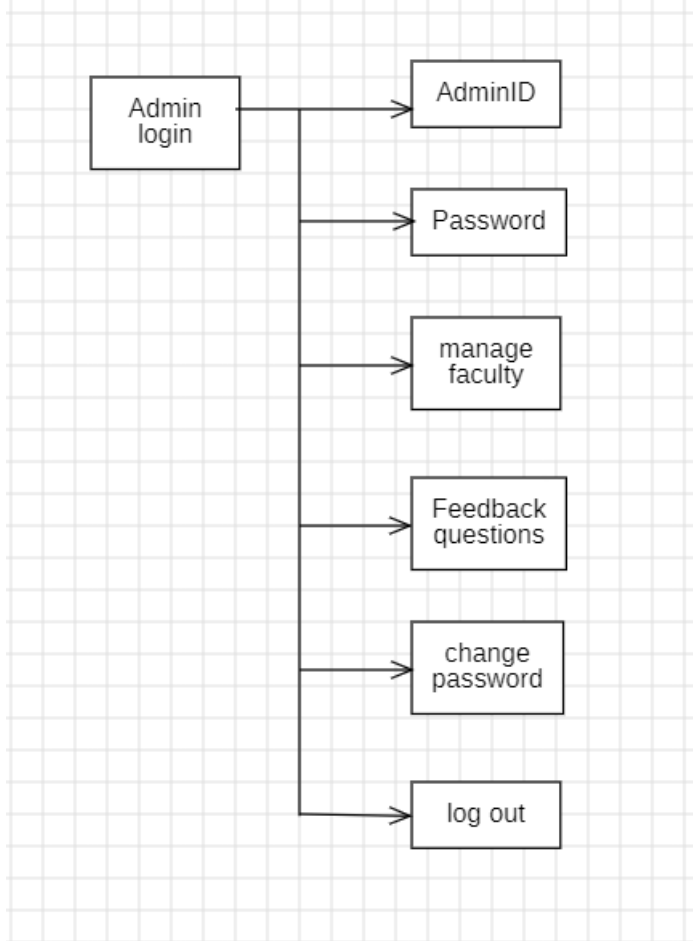
Q2. Illustrate and briefly discuss the detailed design (i.e. low-level design) of the system pertaining to your chosen project.

Answer-2:



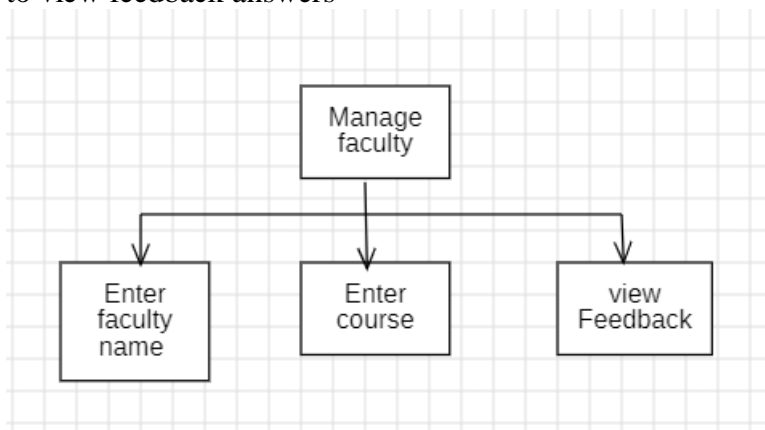
1. Admin login Module:

The admin login module takes admin to login into the system using their unique Id and password. Also Manages the faculty, prepares the student feedback questions and can also change password, log out of the system



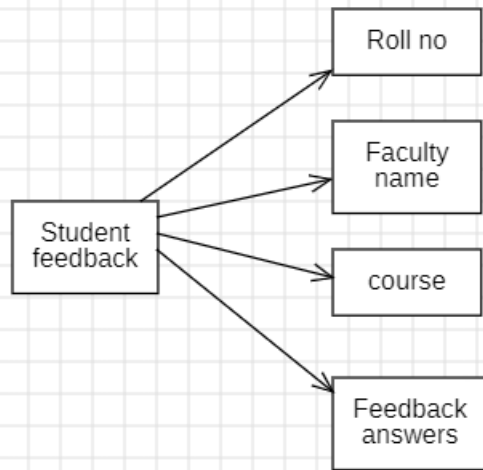
2. Manage faculty module:

The manage faculty module takes the admin to add faculty name and course and also allows faculty to view feedback answers



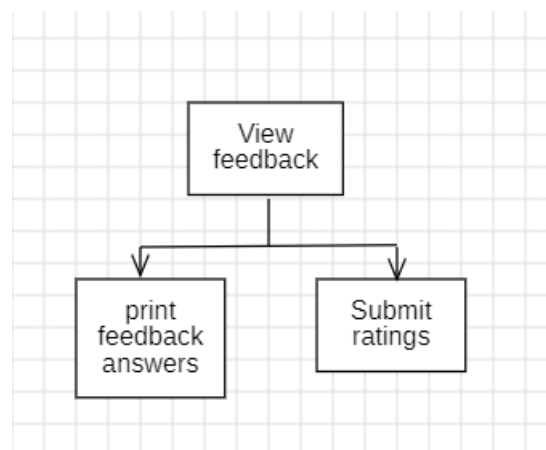
3. Student Feedback module:

The student feedback module takes student to enter the roll number, faculty name, and course name then submit the feedback answers



4.View feedback module:

The view feedback module allows the admin and faculty to view the student feedback answers.



Q3. Briefly discuss the functionality of modules developed so far. You may attach the source code listings for the above modules as annexure to this review-2 document.

Functionality of Module-1: Admin login

1. **Enter Credentials:** The administrator enters their username and password on the login screen.
2. **Validation:** The system checks if the username and password are filled in and may also ensure they meet minimum length requirements.
3. **Verification:** Upon clicking "Login," the system verifies the entered credentials against securely stored information in a database.
4. **Successful Login:** If the credentials are valid, the system grants access to the admin dashboard, potentially displaying a welcome message and presenting options like:
 - ✓ Manage Faculty
 - ✓ Provide Feedback
 - ✓ Change Password
 - ✓ Logout
5. **Failed Login:** If the credentials are incorrect, the system displays an error message and might limit further login attempts to enhance security.

Functionality of Module-2: Manage Faculty

1. **Add Faculty:** This function allows administrators to create new faculty profiles within the system.
2. **Enter Details:** During profile creation, admins can input essential information about the faculty member, such as:
 - Name
 - Subject 1
 - Subject 2
3. **Save and Submit:** Once all details are entered, the admin can confirm and submit the information. This adds the new faculty profile to the system's database.

Functionality of Module-3: Student Feedback

1. **Student Identification:** Students enter their roll number and navigate with "Next" and "Back" buttons.
2. **Faculty Selection:** They select a faculty member from a list and use "Next" or "Back" to navigate.
3. **Subject Choice:** Students choose the subject they received instruction in from the chosen faculty.
4. **Feedback Questions:** The system presents questions about the faculty's teaching style.
5. **Feedback Submission:** Students answer the questions and submit their feedback for storage in the database.

Functionality of Module-4: Viewing Feedback

1. **Student Identification:** Students enter their roll number for verification.
2. **Faculty Selection:** Students choose the faculty member they wish to view feedback for.
3. **Subject Choice:** Students select the specific subject they received instruction in from the chosen faculty.
4. **View Ratings:** Upon clicking "Submit," the system displays pre-existing average ratings or summarized data for each question related to the faculty's teaching on the chosen subject.

Q4. Briefly discuss the steps taken by you for unit testing pertaining to the system modules already completed by you. Summarize your test results for the above testing. You may attach the test cases used for the above testing as annexure to this review-2.

1. Login module

1. Identifying Units:

We identified key units within the login module, such as input validation, authentication logic and error handling.

2. Writing Test Cases:

We wrote test cases for each unit/component, covering both positive and negative scenarios. These test cases include various inputs and conditions to ensure thorough coverage.

3. Testing Input Validation:

We tested input validation functions to ensure they correctly handle different types of input, such as empty strings, invalid characters, and excessively long input. We verified that validation errors are reported accurately.

4. Testing Authentication Logic:

We tested the authentication logic to ensure it correctly validates user credentials against stored data. Test cases covered scenarios like valid credentials, invalid usernames, invalid passwords.

2. Manage faculty

1. Identifying Units:

We Identified key units within the manage faculty module, such as input validation, database interaction, business logic for adding faculty, and associating subjects.

2. Writing Test Cases:

We Wrote test cases for each unit covering positive and negative scenarios. These test cases include valid and invalid inputs.

3. Testing Business Logic:

We tested the business logic for adding faculty names and subjects. We Verified that faculty names are added successfully and subjects are associated correctly. These test cases covered scenarios like adding a new faculty, updating existing faculty, and handling errors.

3. Student Feedback

1. Identifying Units:

We Identified key units within the student feedback module, such as input validation, database interaction, business logic for submitting feedback, and data handling for roll numbers and subjects.

2. Writing Test Cases:

We wrote test cases for each unit covering positive and negative scenarios. These test cases include valid and invalid inputs.

3. Testing Input Validation:

We tested input validation functions to ensure they correctly handle different types of input, such as roll numbers and subject selections. We verified that validation errors are reported accurately.

4. Testing Business Logic:

We tested the business logic for submitting feedback. We verified that feedback is submitted successfully and associated with the correct roll number and subject. These test cases covered scenarios like submitting feedback for different subjects and handling errors.

4. Viewing Feedback

1. Identification of Units:

We identified the key units or components within the viewing feedback module, such as input validation, database interactions, and business logic for fetching and displaying feedback.

2. Writing Test Cases:

We developed test cases to cover various scenarios, including positive and negative inputs. Test cases encompass valid and invalid roll numbers, faculty selections, and subject choices.

3. Testing Business Logic:

We evaluated the business logic responsible for fetching and displaying feedback. We verified that feedback is retrieved accurately based on the selected criteria, including faculty members and subjects. We tested for various scenarios, such as different faculty selections and subject combinations.

Q5. Briefly discuss the functionality of modules that are yet to be developed.

Functionality of module-1: Questionnaire Creation

1. We're going to make questions about how teachers teach, grade, and interact with students.
2. Students will pick answers like "poor" or "excellent" to rate their experiences.
3. We'll make sure the questions are easy to understand and help us learn how good the teachers are.

Functionality of the module-2: Integration and Error Checking

1. We'll combine all the parts of our website to make sure they work together smoothly.
2. We'll check for any mistakes or problems that might happen when we put everything together.
3. If we find any issues, we'll fix them so that our website works perfectly when it's all connected.

Functionality of module-3: Database Creation and Connection

1. We'll set up a place to store all the important information for our website, like faculty details and student feedback.
2. Then, we'll make sure our website can talk to this storage place, so it can get the information it needs.
3. This way, when someone visits our website, it can quickly find and show the right information from the database.

Functionality of Module-4: Styling Enhancement

1. Apply CSS styling to all developed modules for improved visual presentation.
2. Ensure consistency in design elements such as fonts, colors, and layouts.
3. Enhance user experience by optimizing page responsiveness and usability.

Annexure-1: Minutes of meetings of the project team
(From 3rd January 2024 to till date)

Date: 24-02-2024

Time: 7 p.m. – 9 p.m.

Attendance:

All project team members were present.

Agenda:

- ✓ Reviewed and discussed the website design.
- ✓ Decided on the modules to be developed, including admin login, managing faculty, student feedback, and submitting assignments.
- ✓ Equally assigned tasks to team members.

Outcomes:

- ✓ Finalized the website's design and development plan.
- ✓ Started working on the assigned tasks to progress the website development

Date: 06-03-2024

Time: 10 a.m. – 12 p.m.

Attendance:

All project team members were present.

Agenda:

- ✓ Explored suitable tools for generating effective test cases.
- ✓ Discussed and planned to develop test cases for the completed modules.

Outcomes:

- ✓ Encountered errors while developing test cases.
- ✓ Identified and addressed the errors.
- ✓ Continued working on the modules

Date: 16-03-2024

Time: 9 p.m. – 11:30 p.m.

Attendance:

All project team members were present.

Agenda:

- ✓ Resolved errors in specific modules.
- ✓ Planned upcoming reviews and identified remaining tasks.
- ✓ Prepared the review document following the provided format.

Outcomes:

- ✓ Successfully addressed errors in the modules.
- ✓ Completed the review document according to the specified format.

Annexure-2: Weekly activity reports for each team member
(From 3rd January 2024 to till date)

Team Member 1: Chinthaparthi Archana

Role : Project Manager

Contribution to the project:

- ✓ Assisted in finalizing the project title.
- ✓ Researched potential stakeholders of the project.
- ✓ Identified organization processes supported by the proposed system.
- ✓ Contributed to review 1 documentation.
- ✓ Documented the functionality of modules developed so far.
- ✓ Planned functionality for modules yet to be developed.
- ✓ Prepared review 2 documentation

Team Member 2: Gali Tejasree

Role : Technical Lead

Contribution to the project:

- ✓ Defined techniques for gathering project requirements.
- ✓ Identified important functional requirements for the project.
- ✓ Identified key non-functional requirements for the project.
- ✓ Proposed development tools and explained their selection.
- ✓ Conducted unit testing for completed system modules.
- ✓ Summarized test results for completed module testing.
- ✓ Prepared test cases for module unit testing.

Team Member 1: Harshini V

Role : UI/UX designer

Contribution to the project:

- ✓ Created use case diagrams for our project's Knowledge Management System (KMS).
- ✓ Researched and listed ten similar existing KM systems.
- ✓ Justified why our KMS is better than others.
- ✓ Explained the main system architecture.
- ✓ Detailed how the system works at a lower level.
- ✓ Managed weekly reports and meeting notes

Annexure-3: Suggestions given by course faculty and students regarding this project

- ✓ Faculty recommended changing the project title to better fit the problem statement.
- ✓ Faculty suggested adding features that help users share knowledge effectively.
- ✓ We're working on developing a website, following the faculty's advice.
- ✓ Use case diagrams and other planning materials were created to understand project connections better.
- ✓ Faculty suggestions for functional requirements were included in the documentation.
- ✓ Meeting agendas and outcomes were documented to ensure everyone stayed on track with their tasks.
- ✓ Faculty recommend stronger security measures to keep sensitive information safe.
- ✓ Our faculty advised on ways to gather feedback from users and make improvements based on it.

Annexure-4: Source Code Listings for the Completed Modules

Source Code Listings for Module-1: Admin Login

```
<?php
include("configASL.php");
session_start();
if(isset($_SESSION['aid']))
{
    header("location:home.php");
}
if(!empty($_POST))
{
    $aid=mysqli_real_escape_string($al,$_POST['aid']);
    $pass=mysqli_real_escape_string($al,sha1($_POST['pass']));
    $sql=mysqli_query($al,"select * from admin where aid='$aid' and password='$pass'");
    if(mysqli_num_rows($sql)==1)
    {
        $_SESSION['aid']=$_POST['aid'];
        header("location:home.php");
    }
    else
    {
        ?>
        <script type="text/javascript">
            alert("Incorrect Admin ID or Password");
        </script>
        <?php
        }
    }
    ?>
    <!doctype html>
    <html><!-- Designed & Developed by Ashish Labade (Tech Vegan) www.ashishvegan.com | Not for
    Commercial Use-->
    <head>
    <meta charset="utf-8">
    <title>Student Feedback System</title>
    <link href="style.css" rel="stylesheet" type="text/css" />
    </head>

    <body>
    <div id="topHeader">
        <span class="tag">STUDENT FEEDBACK SYSTEM</span>
    </div>
    <br>
    <br>
    <br>
    <br>

    <div id="content" align="center">
    <br>
    <br>
    <span class="SubHead">Admin Login</span>
    <form method="post" action="" >
    <div id="table">
        <div class="tr">
```

```
<div class="td">
  <label>Admin ID : </label>
</div>
<div class="td">
  <input type="text" name="aid" size="25" required />
</div>
</div>
<div class="tr">
  <div class="td">
    <label>Password : </label>
  </div>
  <div class="td">
    <input type="password" name="pass" size="25" required />
  </div>
</div>
</div>

  <div class="tdd">
    <input type="submit" value="Login" />
  </div>

<br>
</div>
</form>
<br>

<center>
<span class="SubHead" style="font-weight:100;">Student Feedback <a href="feedback.php"
class="link">Click Here</a></span>

</center>
</body>
</html>
```

Source Code Listings for Module-2: Welcome page with options

```
<?php
include("configASL.php");
session_start();
if(!isset($_SESSION['aid']))
{
    header("location:index.php");
}
$aid=$_SESSION['aid'];
$x=mysqli_query($al,"select * from admin where aid='$aid'");
$y=mysqli_fetch_array($x);
$name=$y['name'];

?>
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Student Feedback System</title>
<link href="style.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="topHeader">
    <br />
    <span class="tag">STUDENT FEEDBACK SYSTEM</span>
</div>
<br>
<br>
<br>
<br>

<div id="content" align="center">
<br>
<br>
<span class="SubHead">Welcome Admin <?php echo $name;?></span>
<br>
<br>

<a href="feeds.php" class="button">Feedback</a>
<a href="manageFaculty.php" class="button">Manage Faculty</a>
<br>
<br>
<br>
<a href="changePass.php" class="button">Change Password</a>
<a href="logout.php" class="button">Logout</a>
<br>
<br>

</div>
</body>
</html>
```

```
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Student Feedback System</title>
<link href="style.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="topHeader">
    <br />
    <span class="tag">STUDENT FEEDBACK SYSTEM</span>
</div>
<br>
<br>
<br>
<br>

<div id="content" align="center">
<br>
<br>
<span class="SubHead">Student Feedback Step I</span>
<form method="post" action="feedback_step_2.php" >
<div id="table">
    <div class="tr">
        <div class="td">
            <label>Roll No : </label>
        </div>
        <div class="td">
            <select name="roll" required>
                <option value="NA" disabled selected> - - Select Roll No. - -</option>
                <?php
                    for($x=1;$x<=200;$x++)
                    {
                        ?>
                        <option value="<?php echo $x;?>"><?php echo $x;?></option>
                    <?php } ?>
            </select>
        </div>
    </div>
    <div class="tdd">
        <input type="button" onClick="window.location='index.php'"
value="BACK">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="submit" value="NEXT" />
    </div>
    <br>
</div>
</form>
<br>
</body>
</html>
```

```

<?php
include "configASL.php";
session_start();
if(isset($_POST['roll']))
{
    $_SESSION['roll']=$_POST['roll'];
}

?>
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Student Feedback System</title>
<link href="style.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="topHeader">
    <br />
    <span class="tag">STUDENT FEEDBACK SYSTEM</span>
</div>
<br>
<br>
<br>
<br>

<div id="content" align="center">
<br>
<br>
<span class="SubHead">Step II</span>
<form method="post" action="feedback_step_3.php" >
<div id="table">
    <div class="tr">
        <div class="td">
            <label>Roll No : </label>
        </div>
        <div class="td">
            <input type="text" disabled size="5" value="<?php echo
$_SESSION['roll'];?>" />
        </div>
    </div>
    <div class="tr">
        <div class="td">
            <label>Faculty : </label>
        </div>
        <div class="td">
            <div class="td">
                <select name="faculty_id" required>
                    <option value="NA" disabled selected> - - Select Faculty - -</option>
                <?php
                    $x=mysqli_query($al,"select * from faculty");
                    while($y=mysqli_fetch_array($x))
                    {
                        ?>

```



```

        <option value="<?php echo $y['faculty_id'];?>"><?php echo $y['name'];?></option>
        <?php } ?>
    </select>
</div>
</div>
</div>
</div>

    <div class="tdd">
        <input type="button" onClick="window.location='feedback.php'"
value="BACK">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="button"
onClick="window.location='exit.php'" value="EXIT">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input
type="submit" value="NEXT" />
    </div>

    <br>
</div>
</form>
<br>

</body>
</html>

```

Source Code Listings for Module-3: Giving Feedback(step - 3)

```

<?php
include "configASL.php";
session_start();
if(isset($_POST['roll']))
{
    $_SESSION['roll']=$_POST['roll'];
}

if(isset($_POST['faculty_id']))
{
    $_SESSION['faculty_id']=$_POST['faculty_id'];
}
//Fetch Faculty Name
$nm = mysqli_fetch_array(mysqli_query($al, "SELECT * FROM faculty WHERE
faculty_id='".$_SESSION['faculty_id']."'"));
$_SESSION['name'] = $nm['name'];
?>
<!doctype html>
<head>
<meta charset="utf-8">
<title>Student Feedback System</title>
<link href="style.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="topHeader">
    <span class="tag">STUDENT FEEDBACK SYSTEM</span>
</div>
<br>

```

```

<br>
<br>
<br>

<div id="content" align="center">
<br>
<br>
<span class="SubHead">Step III</span>
<form method="post" action="feedback_step_4.php" >
<div id="table">
    <div class="tr">
        <div class="td">
            <label>Roll No : </label>
        </div>
        <div class="td">
            <input type="text" disabled size="5" value="<?php echo
$_SESSION['roll'];?>" />
            <input type="hidden" value="<?php echo $_SESSION['roll'];?>" name="roll" />
        </div>
    </div>
    <div class="tr">
        <div class="td">
            <label>Faculty : </label>
        </div>

        <div class="td">
            <input type="text" disabled size="25" value="<?php echo
$_SESSION['name'];?>" />
            <input type="hidden" value="<?php echo $_SESSION['faculty_id'];?>" name="faculty_id" />
        </div>
    </div>

    <div class="tr">
        <div class="td">
            <label>Subject : </label>
        </div>

        <div class="td">
            <select name="subject" required>
                <option value="NA" disabled selected> - - Select Subject - -</option>
            <?php
                $x=mysqli_query($al,"select distinct s1,s2 from faculty WHERE
faculty_id='".$_SESSION['faculty_id']."'");
                while($y=mysqli_fetch_array($x))
                {
                    ?>
                    <option value="<?php echo $y['s1'];?>"><?php echo $y['s1'];?></option>
                    <option value="<?php echo $y['s2'];?>"><?php echo $y['s2'];?></option>

                    <?php } ?>
                </select>
            </div>
        </div>
    </div>

```

</div>

```
    <div class="tdd">
      <input type="button" onClick="window.location='feedback_step_2.php'"
value="BACK">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="submit" value="NEXT" />
    </div>
```

```
    <br>
  </div>
</form>
<br>
```

```
</body>
</html>
```

Annexure-5: Test Cases used for Unit Testing of the Completed Modules

Test cases for Module-1: Login module

Positive Test case- Valid login

Input: Valid username and password

Expected Output: Successful login

Negative Test case- Invalid Password

Input: Valid username and invalid password

Expected Output: The password should contain a minimum length of 8

Negative Test case-Empty fields

Input: Empty username and password fields

Expected Output: Fields cannot be empty.

Test cases for Module-2: Manage Faculty

Positive Test case- Successfully entering faculty name and subjects

Input: Valid faculty name and subject name

Expected output: The profile is created successfully.

Negative Test case- Invalid faculty name

Input: Invalid faculty name and valid subject name

Expected output: The faculty name should contain only alphabetic characters.

Test cases for Module-3: Student Feedback

Positive Test case- Submitting answers to the given feedback questions.

Input: Selecting answers to all feedback questions

Expected output: Response is successfully saved.

Negative Test case- Not responding to all feedback questions.

Input: Selecting the submit button without answering all questions.

Expected output: All questions need to be answered to save the response.

Test cases for Module-4: Viewing Feedback

Positive Test case- Successfully selecting faculty and subject to view feedback

Input: Select faculty, subject and click submit.

Expected output: The summarized data for each question related to faculty's teaching on the chosen subject is shown.

Negative Test case- Not selecting the subject name

Input: Clicking submit button without selecting the subject

Expected output: Subject need to be selected in order to see the review about the faculty.

SWE2027- Knowledge Management System

Report Template for Review-1 of Project-based Component

(A) Project Title: “Knowledge Connect: Empowering Your Faculty Choices with Senior Insights”

Target User or Industry Sector: Higher Education Institutions

(B) Project Team			
Reg.No./ Slot	Student Name	VIT Student E-mail ID	Cell Phone No.
21MIS0211	Chinthaparthi Archana	chinthaparthi.archana2021@vitstudent.ac.in	7207832737
21MIS0033	Gali Teja Sree	galiteja.sree2021@vitstudent.ac.in	8897933802
21MIS0454	Harshini V	harshini.v2021a@vitstudent.ac.in	7780227489
Minutes of meetings held are to be attached as annexure-1 to this report			

(C) Project Synopsis / Abstract (not more than 150 words):

Our project, “Knowledge Connect” is all about building a website to help seniors pass on useful tips to juniors entering higher education. The website focuses on insights about teachers' styles, grading methods, leniency, and class strictness. It's designed to be user-friendly and secure, addressing concerns about too much information. By creating a space where students can easily share their experiences, we aim to make the transfer of knowledge smooth. Our goal is to build a friendly online community where students collaborate and support each other, ultimately making the educational journey for juniors more enjoyable and beneficial as they step into higher education.

(D) Mention the specific roles and responsibilities for each member of the proposed project team.

ROLES:

1. Project Manager - Chinthaparthi Archana
2. Technical Lead - Gali Teja Sree
3. UI/UX designer - Harshini V

RESPONSIBILITIES:

1. Project Manager - Responsible for overall project management, stakeholder communication, and ensuring project goals align with organizational objectives.
2. Technical Lead - In charge of system architecture, design, development oversight, and technical problem-solving.
3. UI/UX designer - Responsible for user interface and experience design, creating wireframes, prototypes, and visual designs, and ensuring a user-friendly platform.

Q1. Write the problem definition or the problem statement that will be addressed in the proposed project.

When students register for courses (FFCS), they often don't have enough information about the faculty—how they teach, grade, or handle classes. This lack of knowledge makes it difficult for students to choose the right courses. The current registration system doesn't offer a way for seniors to share their experiences with juniors. As a result, juniors may struggle to make informed decisions during course registration. The proposed project, "Knowledge Connect," aims to solve this problem by creating a platform where seniors can share helpful tips about faculty characteristics, making it easier for juniors to choose their courses wisely.

Q2. Identify the potential stakeholders of the above project and benefits for each stakeholder.

- ✓ Students (Juniors)
- ✓ Students (Seniors)
- ✓ Faculty Members
- ✓ Administrators/Institution
- ✓ The Project Team

Q3. Specify the organization process or processes that would be supported by your proposed system.

- ✓ Course Registration Process
- ✓ Communication and Collaboration
- ✓ Feedback and Improvement
- ✓ Knowledge Transfer

Q4. Specify the technique and enumerate the steps involved for requirements elicitation or discovery pertaining to your chosen project.

Technique: Stakeholder Interviews for "Knowledge Connect" Project

- ✓ Identify Stakeholders:
- ✓ Prepare Interview Questions
- ✓ Conduct One-on-One Interviews
- ✓ Capture Responses
- ✓ Analyse and Categorize
- ✓ Validate with Feedback Session
- ✓ Prioritize Requirements
- ✓ Document Finalized Requirements
- ✓ Review and Iterate if Necessary
- ✓ Ensure Clarity and Agreement

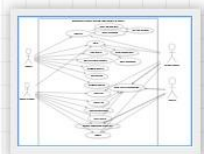
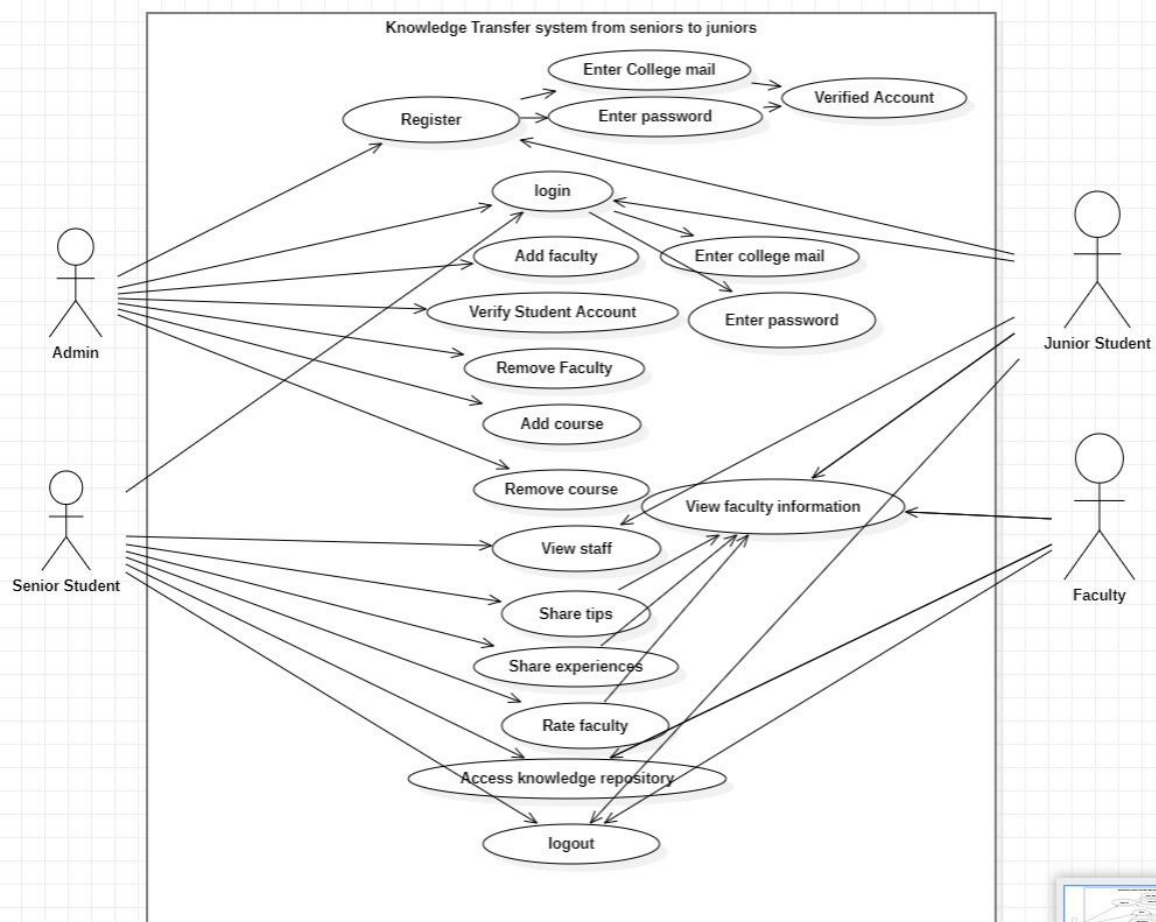
Q5. Enumerate a few functional requirements that could be of higher importance.

- ✓ Login System
- ✓ Faculty Info Access
- ✓ Sharing Knowledge
- ✓ Tracking Progress
- ✓ Talking Together
- ✓ Feedback System

Q6. Enumerate any two most important non-functional requirements for the proposed system.

- ✓ Usability
- ✓ Reliability

Q7. Draw a few use case diagrams for the KMS pertaining to your chosen project. You may use additional space provided for this purpose in annexure-3.



Q8. List the development tools that you propose to use. Justify your choice of tools.

PHP, HTML, CSS (for making things work and look good):

We chose PHP for its ability to handle interactive content, and HTML/CSS to structure and style web pages. This combo ensures a smooth user experience, making information clear and the platform attractive for effective knowledge sharing.

MySQL (for storing important data):

MySQL acts as our reliable storage system. It efficiently stores and retrieves crucial data about faculty characteristics, providing a strong foundation for managing large datasets in our knowledge management system.

GitHub (for keeping track of changes):

GitHub is part of our development process to track changes collaboratively. It helps us work together efficiently, ensuring our code is well-organized and everyone is on the same page.

ProofHub (for managing the project):

ProofHub is our all-in-one project management tool. It helps us coordinate tasks, collaborate effectively, and communicate within the team. Its features keep our project organized, contributing to the success of our knowledge management system.

Q9. Enumerate any ten existing KM systems that are similar to the system proposed by you. Be specific and provide the list of references for the above systems at the end of this document as annexure-2.

- ✓ Quora
- ✓ Shiksha
- ✓ Facebook Groups
- ✓ Careers360
- ✓ Collegedunia
- ✓ Collegesearch
- ✓ Vidyavision
- ✓ Stack Overflow
- ✓ CampusGroups
- ✓ Faculty 180
- ✓ Scribd
- ✓ Whatsapp groups

Q10. Justify in what way your proposed KMS is superior to existing systems.

Clear Class Information:

Provides straightforward details for better class decision-making without unnecessary information.

Helpful Feedback Exchange:

Seniors share useful insights, benefiting both juniors and teachers, and creating a positive feedback loop.

Reliable and Varied Input:

Ensures trustworthy information with verified user identities and diverse perspectives from different learning styles.

User-Friendly Experience:

Easy-to-use tool for simple class decisions with quick, accessible guidance.

Supporting Teacher Improvement:

Honest feedback supports teacher development, fostering a supportive and collaborative learning community.

Annexure-1 Minutes of Meetings
(You may use the following template or any other template)

Date and time of the meeting : 09-01-2024 ; 10 a.m. – 12 p.m.

Meeting Agenda :

The meeting agenda comprises attendance, review and approval of previous minutes, discussions on finalizing the project title, planning, role allocation, and responsibilities

Names of the meeting participants and those unable to attend (e.g., “regrets”)

All project team members were present.

Acceptance or corrections/amendments to previous meeting minutes

Decisions made about each agenda item, for example: Actions taken or agreed to be taken. Next steps

After reviewing various feedback methods, we concluded that concentrating on faculty feedback would be more beneficial for students during the FFCS course registration process. The next steps involve implementing a straightforward feedback system specifically designed to assist students in selecting faculty members.

Date: 31-01-2024

Time: 7 p.m. – 9 p.m.

The meeting was conducted online via Zoom.

Attendance:

All project team members were present.

Agenda:

- ✓ Reviewed and finalized the project's review document.
- ✓ Collaboratively created a comprehensive use case diagram, discussing the planned functionalities for the website.
- ✓ Discussed and clarified the main goals and objectives of the project.

Outcomes:

- ✓ Successfully completed the review document, ensuring alignment with project objectives.
- ✓ Developed a clear and detailed use case diagram, providing a visual representation of website functionalities.
- ✓ Established a shared understanding of the primary goals to be achieved in the development of the website.

Annexure-2: The References
(for the ten existing systems mentioned in the answer of Q9)

1. <https://www.quora.com/>
2. <https://www.shiksha.com/>
3. <https://www.facebook.com/>
4. <https://www.careers360.com/colleges/reviews>
5. <https://collegedunia.com/reviews>
6. <https://www.collegesearch.in/collections-colleges-with-best-faculty>
7. <https://www.vidyavision.com/college-reviews>
8. <https://stackoverflow.com/>
9. https://www.campusgroups.com/home_login/
10. <https://faculty180.ecu.edu/>
11. <https://www.scribd.com/document/543974548/Faculty-Review-1>
12. <https://web.whatsapp.com/>

Annexure-3: Use case diagrams pertaining to the proposed KMS

