

19CSE314/SOFTWARE ENGINEERING

PROJECT REPORT

FACULTY LEAVE MANAGEMENT SYSTEM

Submitted by GROUP 10

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**BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE AND ENGINEERING**



**AMRITA SCHOOL OF ENGINEERING
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MAY 2022**

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ABSTRACT

Managing Faculty Leaves in an institution or university is not an easy task when done manually. Problems like data redundancy, backup and recovery of data, accessing data, storage issues can arise due to manual techniques, also there comes a great difficulty to take leaves and get it approved from the management since it is difficult to track leaves with the manual approach. In this project, we will develop a web application for **Faculty Leave Management System** which is capable of applying, tracking and approval of leaves, this also helps the end users share the data quickly and effectively across the organisation. This application provides advantages over manual approach like Solving problems of data redundancy, backup and recovery of data, accessing data, storage issues, provides convenient user interface making leave management easier and clearer for all the users, Keeping the data securely in the application and Automatic updation of leave status and records.

PREVIEW

INTRODUCTION: web application for **Faculty Leave Management System** which is capable of applying, tracking and approval of leaves,

NEED AND MOTIVATION: To solve problems of data redundancy, backup and recovery of data, accessing data, storage issues, provides convenient user interface making leave management easier and clearer for all the users

TOOLS USED: jira, vscode,xampp

PRODUCT BACKLOG:

Summary	Status	Priority	Assignee	Reporter	Creator	Custom field (Story Points)
As a user, I must be able to change my profile pic.	In Progress	Medium	CB.EN.U4CSE19405	CB.EN.U4CSE19444	CB.EN.U4CSE19444	4
As a user, I could sign in with personal e-mail.	In Progress	Medium	CB.EN.U4CSE19430	CB.EN.U4CSE19465	CB.EN.U4CSE19465	2
As a user, my account will be locked after too many failed attempts.	In Progress	Medium	CB.EN.U4CSE19402	CB.EN.U4CSE19465	CB.EN.U4CSE19465	3
As an admin, I could backup data.	To Do	Medium	CB.EN.U4CSE19405	CB.EN.U4CSE19430	CB.EN.U4CSE19430	3
As an admin, I could approve leave for users.	In Progress	Medium	CB.EN.U4CSE19465	CB.EN.U4CSE19430	CB.EN.U4CSE19430	1.5
As an admin, I could modify user's access in the system.	In Progress	Medium	CB.EN.U4CSE19444	CB.EN.U4CSE19430	CB.EN.U4CSE19430	3
Academic Year Report	To Do	Medium		CB.EN.U4CSE19402	CB.EN.U4CSE19402	
Shows reports of all departments	To Do	Medium		CB.EN.U4CSE19402	CB.EN.U4CSE19402	
Faculty Report	To Do	Medium		CB.EN.U4CSE19402	CB.EN.U4CSE19402	
Admin Report	To Do	Medium		CB.EN.U4CSE19402	CB.EN.U4CSE19402	
Attendance Report	To Do	Medium		CB.EN.U4CSE19402	CB.EN.U4CSE19402	
Leave Report	To Do	Medium		CB.EN.U4CSE19402	CB.EN.U4CSE19402	
An interface for user to register and login using credentials	To Do	Medium		CB.EN.U4CSE19465	CB.EN.U4CSE19465	
As a user, I could resign	To Do	Medium		CB.EN.U4CSE19405	CB.EN.U4CSE19405	
As a faculty, I want to check, apply or reject leaves.	To Do	Medium		CB.EN.U4CSE19405	CB.EN.U4CSE19405	
As a user, I could cancel leave application	To Do	Medium		CB.EN.U4CSE19405	CB.EN.U4CSE19405	
As a user, I would want to checkout pending leaves	To Do	Medium		CB.EN.U4CSE19405	CB.EN.U4CSE19405	
As a user, I would want to track my leave status	To Do	Medium		CB.EN.U4CSE19405	CB.EN.U4CSE19405	
As a user, I would want to apply for leave	To Do	Medium		CB.EN.U4CSE19405	CB.EN.U4CSE19405	
An interface that enables user to view and edit personal details	To Do	Medium		CB.EN.U4CSE19444	CB.EN.U4CSE19444	
A section to allow Admin to create, modify and approve user activities	To Do	Medium		CB.EN.U4CSE19430	CB.EN.U4CSE19430	

EPICS AND STORIES:

Epic 1: User Authentication

As a user, I need to register.	User Authentication	<input checked="" type="checkbox"/>
As a user, I need to login.	User Authentication	<input checked="" type="checkbox"/>
As a user, my account will be locked after too many failed attempts.	User Authentication	<input checked="" type="checkbox"/>
As a user, I could forget password and want to reset.	User Authentication	<input checked="" type="checkbox"/>
As a user, I could sign in with personal e-mail.	User Authentication	<input checked="" type="checkbox"/>

Epic 2: Administration

As an admin, I could create new users in the system.	Administration	<input checked="" type="checkbox"/>
As an admin, I have to login	Administration	<input checked="" type="checkbox"/>
0 As an admin, I could modify user's access in the system.	Administration	<input checked="" type="checkbox"/>
1 As an admin, I could backup data.	Administration	<input checked="" type="checkbox"/>
2 As an admin, I could approve leave for users.	Administration	<input checked="" type="checkbox"/>

Epic 3: Profile

1 As a user, I will check out my dashboard.	Profile	<input checked="" type="checkbox"/>
i As a user, I must be able to update my password	Profile	<input checked="" type="checkbox"/>
i As a user, I must be able to edit my bio.	Profile	<input checked="" type="checkbox"/>
' As a user, I must be able to change my profile pic.	Profile	<input checked="" type="checkbox"/>
i As a user, I must be able to check out my history.	Profile	<input checked="" type="checkbox"/>

Epic 4: Faculty

As a user, I would want to apply for leave

Faculty

As a user, I would want to track my leave status

Faculty

As a user, I would want to checkout pending leaves

Faculty

As a user, I could cancel leave application

Faculty

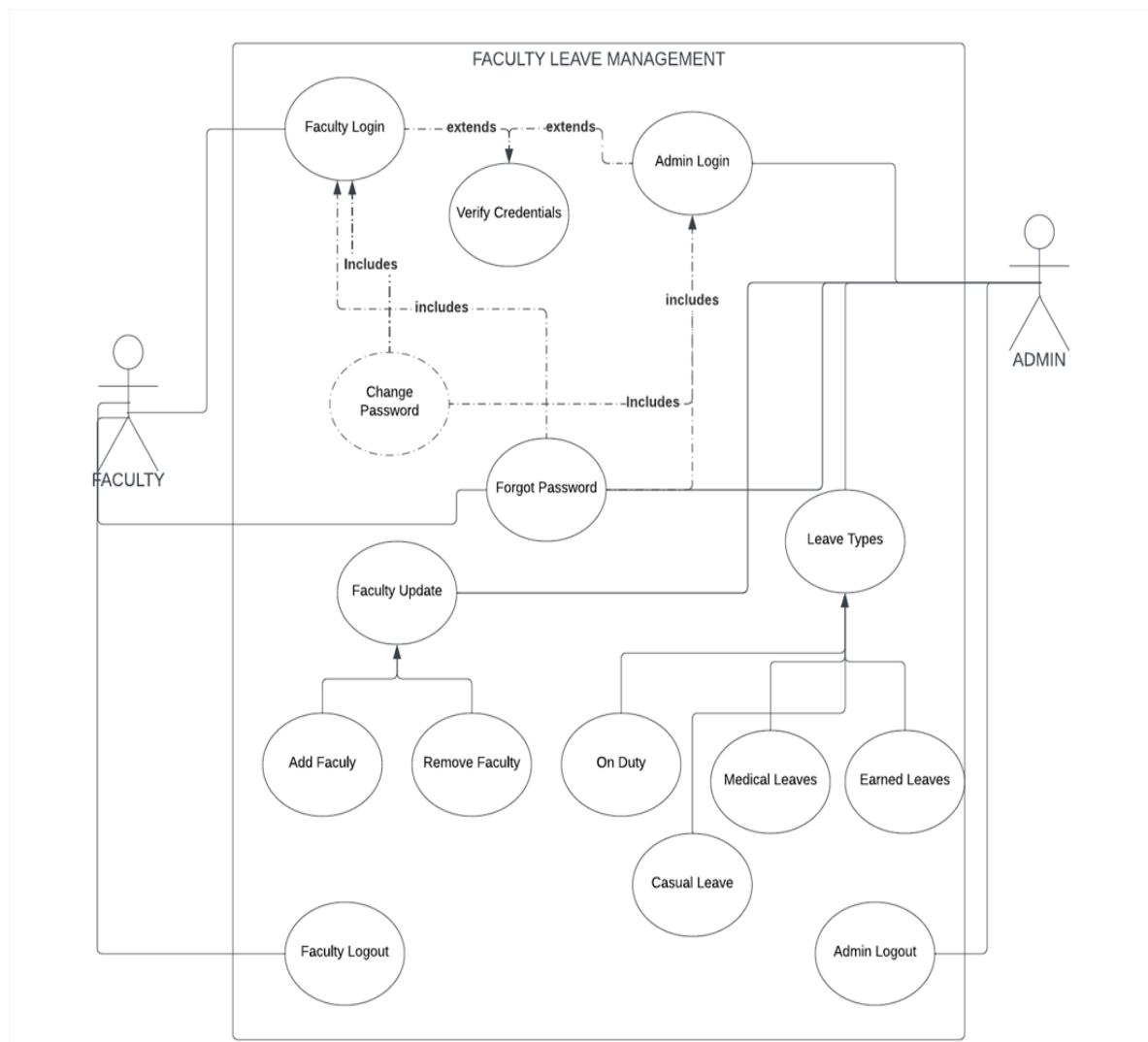
As a user, I could resign

Faculty

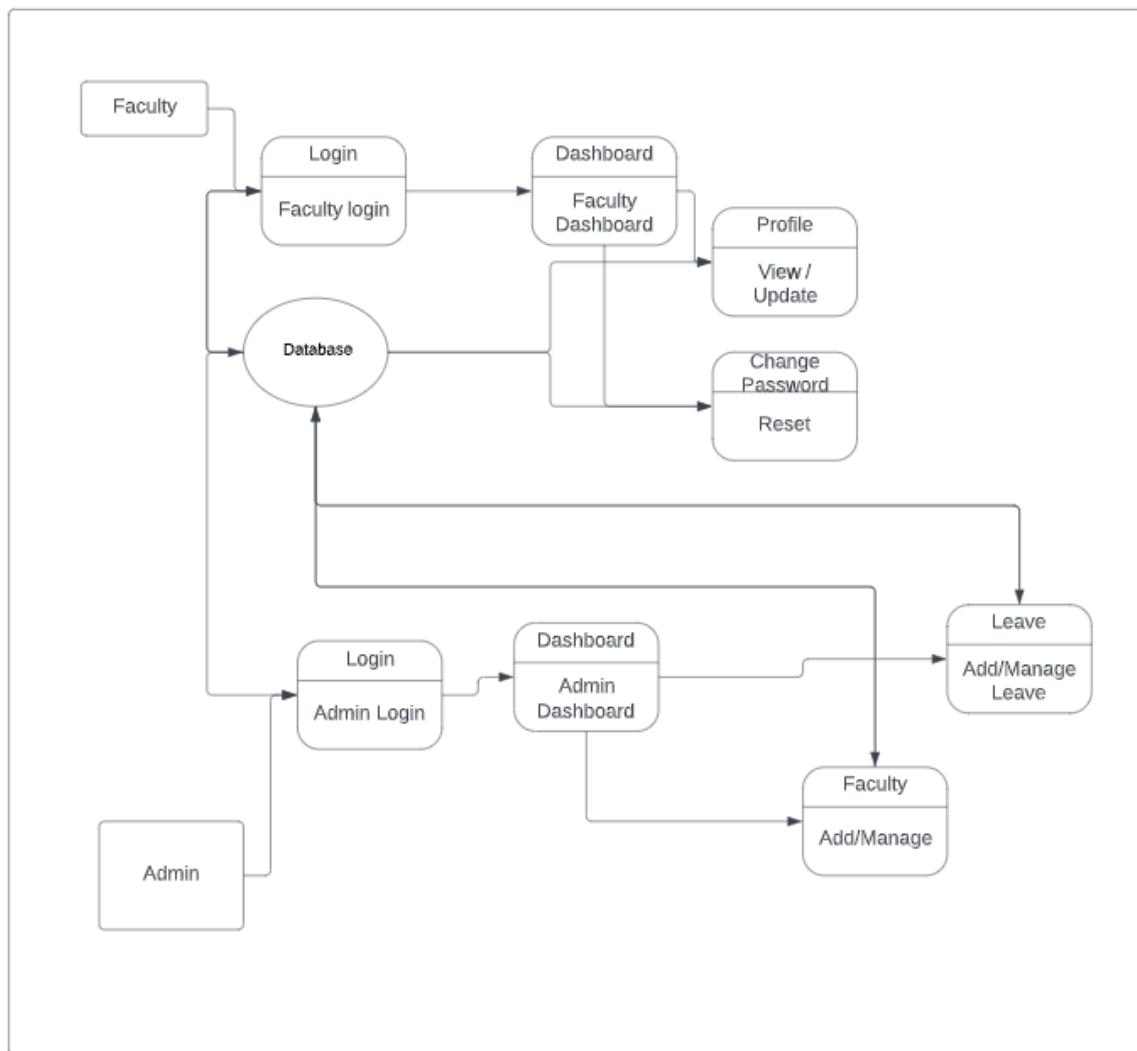
STAND UP NOTES:

Name	Question	Answer	Sign
Sandeep	What did you do yesterday?	First identified the requirements of the project and listed them	
	What will you do today?	Wrote the list of epics	
	Are there any impediments in your way?	Finding sufficient epics stories and tasks	
Satya Hemanth	What did you do yesterday?	Looked for the required details in the project	
Vaishnavi	What will you do today?	Wrote down the tasks and stories below the epics	
	Are there any impediments in your way?	none	
	What did you do yesterday?	Preparation of the epics and stories	
Karthik	What will you do today?	Just listed out epic stories and tasks	
	Are there any impediments in your way?	Did correction in the tasks and epics	
	What did you do yesterday?	Looked into epics and stories	
harinath	What will you do today?	Finding the tasks for each story.	
	Are there any impediments in your way?	Finding superior user stories and removing insignificant stories	
harinath	What did you do yesterday?	Looked at the requirements for the project	

USE CASE DIAGRAM:

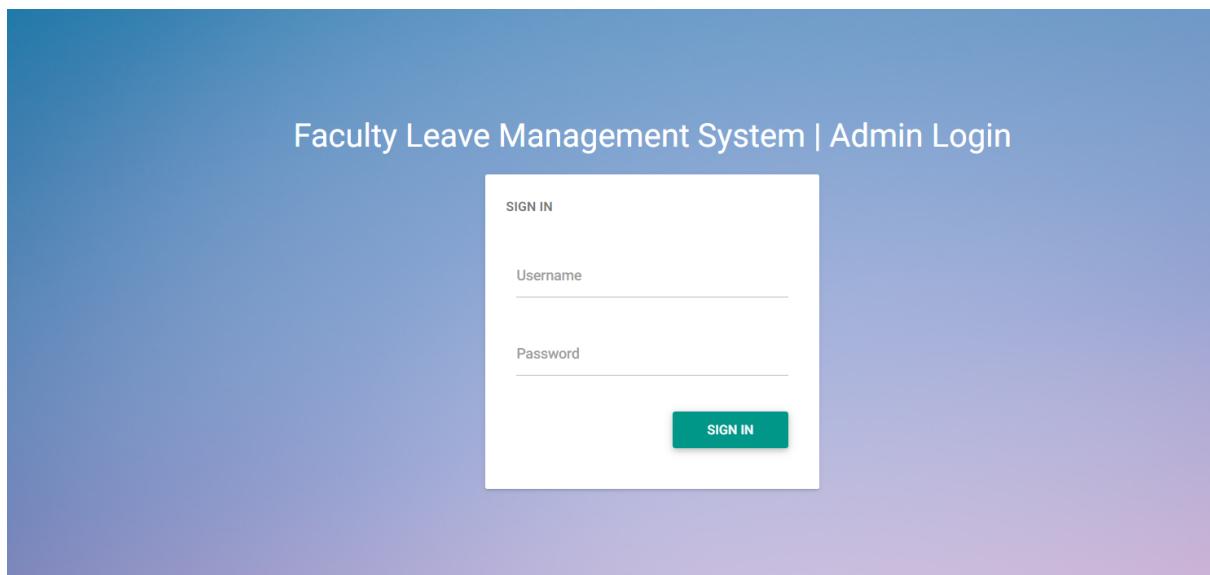


DFD(Data Flow Diagram):



IMPLEMENTATION

ADMIN LOGIN



ADMIN - ADD FACULTY

A screenshot of the "Add Faculty" page. On the left is a sidebar with a user icon, the text "Admin", and links for "Faculty", "Leave Type", and "Log Out". The main area has a title "ADD FACULTY" and "Faculty Info". It contains several input fields: "Faculty id", "Gender...", "DateofBirth", "First name", "Last name", "Department...", "Address", "Email", "City/Town", "Country", "Password", "Mobile number", "Confirm password", and an "ADD" button.

ADMIN - ADD LEAVE TYPE

ADD LEAVE TYPE

Leave Type

Description

ADD

FACULTY LOGIN

≡ FACULTY LEAVE MANAGEMENT SYSTEM

WELCOME TO FACULTY LEAVE MANAGEMENT SYSTEM

Faculty Login

Password Recovery

Admin Login

FACULTY LOGIN

Email Id
vaishnavi@gmail.com

Password

SIGN IN

FACULTY DASHBOARD - PROFILE

UPDATE FACULTY

vaishnavi k
FAC1

My Profile

Change Password

Leaves >

Sign Out

Update Faculty Info

Faculty Id	FAC1		
First name	vaishnavi	Last name	k
Email	vaishnavi@gmail.com		
Mobile number	9857555555		
Gender	Female	Date of Birth	13 January, 2002
Department	cse	Address	Sri nagar
City/Town	vijayawada	Country	India

UPDATE

FACULTY - CHANGE PASSWORD

CHANGE PASSWORD

vaishnavi k
FAC1

My Profile

Change Password

Leaves >

Sign Out

Current Password
New Password
Confirm Password

CHANGE

FACULTY - PASSWORD RECOVERY

FACULTY PASSWORD RECOVERY

FACULTY DETAILS

Faculty Id
FAC1

Email id
vaishnavi@gmail.com

SIGN IN

FACULTY DETAILS

Faculty Id

Email id

SIGN IN

change your password

New Password

Confirm Password

CHANGE

FACULTY - APPLY FOR LEAVE

The screenshot shows a user interface for applying for leave. On the left, there's a sidebar with a profile picture, the name 'vaishnavi k', and 'FAC1'. Below that are links for 'My Profile', 'Change Password', 'Leaves' (with a dropdown arrow), and 'Sign Out'. The main content area has a title 'APPLY FOR LEAVE' and a large heading 'Apply for Leave'. It includes fields for 'Select leave type...', 'From Date', 'To Date', and 'Description', each with a corresponding input field. A blue 'APPLY' button is at the bottom.

SAMPLE CODE:

```
<ul class="sidebar-menu collapsible collapsible-accordion" data-collapsible="accordion">
    <li>&nbsp;</li>
    <li class="no-padding"><a class="waves-effect waves-grey" href="index.php"><i class="material-icons"></i>Faculty Login</a></li>
    <li class="no-padding"><a class="waves-effect waves-grey" href="forgot-password.php"><i class="material-icons"></i> Password Recovery</a>
        <li class="no-padding"><a class="waves-effect waves-grey" href="admin/"><i class="material-icons"></i>Admin Login</a></li>
    </ul>
</div>
<div class="mn-inner">
    <div class="row">
        <div class="col s12">
            <div class="page-title"><h4>Welcome to Faculty Leave Management System</h4></div>
            <div class="col s12 m6 l8 offset-l2 offset-m3">
                <div class="card white darken-1">
                    <div class="card-content ">
                        <span class="card-title" style="font-size:20px;">Faculty Login</span>
                        <?php if($msg){?><div class="errorWrap"><strong>Error</strong> : <?php echo htmlentities($msg); ?> </div><?php }?>
                        <div class="row">
                            <form class="col s12" name="signin" method="post">
                                <div class="input-field col s12">
                                    <input id="username" type="text" name="username" class="validate" autocomplete="off" required>
                                    <label for="email">Email Id</label>
                                </div>
                                <div class="input-field col s12">
                                    <input id="password" type="password" class="validate" name="password" autocomplete="off" required>
                                    <label for="password">Password</label>
                                </div>
                                <div class="col s12 right-align m-t-sm">
                                    <input type="submit" name="signin" value="Sign in" class="waves-effect waves-light btn teal">
                                </div>
                            </form>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
</div>
```

PRODUCT BACKLOG:

CFLMSCMEO board

Backlog

QUICK FILTERS: Only My Issues Recently Updated

SPRINTS

> CFLMSCMEO Sprint 1 15 issues ACTIVE

VERSIONS

Backlog 10 issues Create Sprint

Report Report Report Report Report Faculty Faculty

- CFLMSCMEO-26 Leave Report
- CFLMSCMEO-27 Attendance Report
- CFLMSCMEO-28 Admin Report
- CFLMSCMEO-29 Faculty Report
- CFLMSCMEO-30 Academic Year Report
- CFLMSCMEO-20 As a user, I would want to apply for leave
- CFLMSCMEO-21 As a user, I would want to track my leave status
- CFLMSCMEO-22 As a user, I would want to checkout pending leaves
- CFLMSCMEO-23 As a user, I could cancel leave application
- CFLMSCMEO-24 As a user, I could resign

SPRINT 1 RETROSPECTIVE NOTES:

sl.no	START	CONTINUE	STOP
1	Updation of Jira Account Regularly	Having Scrum Meeting Twice A Week	Having Scrum Meeting In the Hostel
2	Updating Starts Regularly	Nothing The Number of Story Points Completed	Doing Testing After All Components are Integrated
3	Doing Testing After All Components are Implemented	Working with the Same Team Sprint	Stop Irregular Standup
4	Drawing Diagrams for the Project	Doing Integration As and when a Component is Implemented	Communication Gap Between Teammates
5	Sticking To Deadlines	Executing the Project as per Weekly Plan	Making Frequent Changes In Plan

Sprint 2

EPICS AND USER STORIES FOR SPRINT 2

✓ CFLMSCME Sprint 2 3 of 13 issues visible [Clear all filters](#) **ACTIVE**

...

11/Apr/22 11:25 AM • 30/Apr/22 11:25 AM

⬆️ CFLMSCMEO-28 As an admin, I would like to add and manage leave types	Administration	4
⬆️ CFLMSCMEO-24 As an admin, I could add and manage departments	Administration	3
⬆️ CFLMSCMEO-17 As an admin I would like to get entire updates through notifications and dashboard	Administration	4

✓ CFLMSCME Sprint 2 1 of 13 issues visible [Clear all filters](#) **ACTIVE**

...

11/Apr/22 11:25 AM • 30/Apr/22 11:25 AM

⬆️ CFLMSCMEO-6 As a user, I would like to recover my password if invalid	User Authentication	2
--	---------------------	---

✓ CFLMSCME Sprint 2 5 of 13 issues visible [Clear all filters](#) **ACTIVE**

...

11/Apr/22 11:25 AM • 30/Apr/22 11:25 AM

⬆️ CFLMSCMEO-20 As a user, I would want to apply for leave	Faculty	6
⬆️ CFLMSCMEO-21 As a user, I would want to track my leave status	Faculty	4
⬆️ CFLMSCMEO-22 As a user, I would want to checkout pending leaves	Faculty	3
⬆️ CFLMSCMEO-23 As a user, I could cancel leave application	Faculty	2
⬆️ CFLMSCMEO-4 As a Faculty, I should see my qualification and be able to update it	Faculty	3

✓ CFLMSCME Sprint 2 4 of 13 issues visible [Clear all filters](#) **ACTIVE**

...

11/Apr/22 11:25 AM • 30/Apr/22 11:25 AM

⬆️ CFLMSCMEO-26 Leavee Report	Report	4
⬆️ CFLMSCMEO-27 Attendance Report	Report	2
⬆️ CFLMSCMEO-29 Faculty Report	Report	3
⬆️ CFLMSCMEO-30 Academic Year Report	Report	1

BURNDOWN CHART:



NEW IMPLEMENTATION

FACULTY LEAVE MANAGEMENT SYSTEM

by 402_405_430_444_465

[Faculty Login](#)
[Fac Password Recovery](#)
[Admin Login](#)

FACULTY LEAVE MANAGEMENT SYSTEM



Using This Website, You Can Apply for Leave As Faculty

You(user) as a Faculty Can Apply for Leave With an Appropriate Reason and Get It Approved
The Leave Will Be Granted Only When Admin Approves It

This Is a Faculty Management System Made by Our Group
We Are Making This Web Application To Make the Leave Management Process Easier

Admin

- [Dashboard](#)
- [Department](#)
- [Faculty](#)
- [Leave Type](#)
- [Leave Management](#)
- [Reports](#)
- [Sign Out](#)

TOTAL REGD FACULTIES: 6

LISTED DEPARTMENTS: 3

LISTED LEAVE TYPE: 4

#	Faculty Name	Leave Type	Posting Date	Status	Action
1	HARANATH MARRI(FAC4)	Medical Leave	2022-05-17 07:46:43	Approved	VIEW DETAILS
2	SANDEEP ANKIN(FAC5)	Medical Leave	2022-05-17 07:45:21	Approved	VIEW DETAILS
3	SANDEEP ANKIN(FAC5)	Casual Leave	2022-05-17 07:44:50	Not Approved	VIEW DETAILS
4	KARTHIK NUSUM(FAC3)	Earned Leave	2022-05-17 07:43:17	Approved	VIEW DETAILS

VAISHNAVI KOCHERLA
FAC1

- [My Profile](#)
- [My Qualification](#)
- [Change Password](#)
- [Leaves](#)
- [Sign Out](#)

PENDING LEAVES

CASUAL LEAVE	ON DUTY	EARNED LEAVES
15	0	15

MEDICAL LEAVES
14

FACULTY LEAVE MANAGEMENT SYSTEM

VAISHNAVI KOCHERLA
FAC1

- [My Profile](#)
- [My Qualification](#)
- [Change Password](#)
- [Leaves](#)
- [Sign Out](#)

LEAVE HISTORY

LEAVE HISTORY							
Show							
10	Leave Type	From	To	Description	Posting Date	Admin Remak	Status
1	Casual Leave	01/04/2022	02/04/2022	casual leave	2022-05-17 07:38:39	waiting for approval	waiting for approval
2	Medical Leave	04/03/2022	09/03/2022	Medical emergency	2022-05-17 07:39:07	. at 2022-05-17 7:50:41	Approved

Showing 1 to 2 of 2 entries

SAMPLE CODE:

```

<span class="card-title">On
Duty</span>
<?php
$eid=$_SESSION['eid'];
$sql = "SELECT * from tblleaves WHERE empid = '$eid' AND
LeaveType='On Duty' AND Status='1' ";
$query = $dbh -> prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
$dptcount=$query->rowCount();
?>
<span
class="counter"><?php echo htmlentities($dptcount);?></span></span>
</div>
<div id="sparkline-line"></div>
</div>
</div>
```

TOOLS USED:

FOR DEVELOPING:

VS CODE

XAMPP

PHPMYADMIN

FOR TESTING

SONARQUBE — STATIC CODE ANALYSIS

SELENIUM IDE — UI TESTING

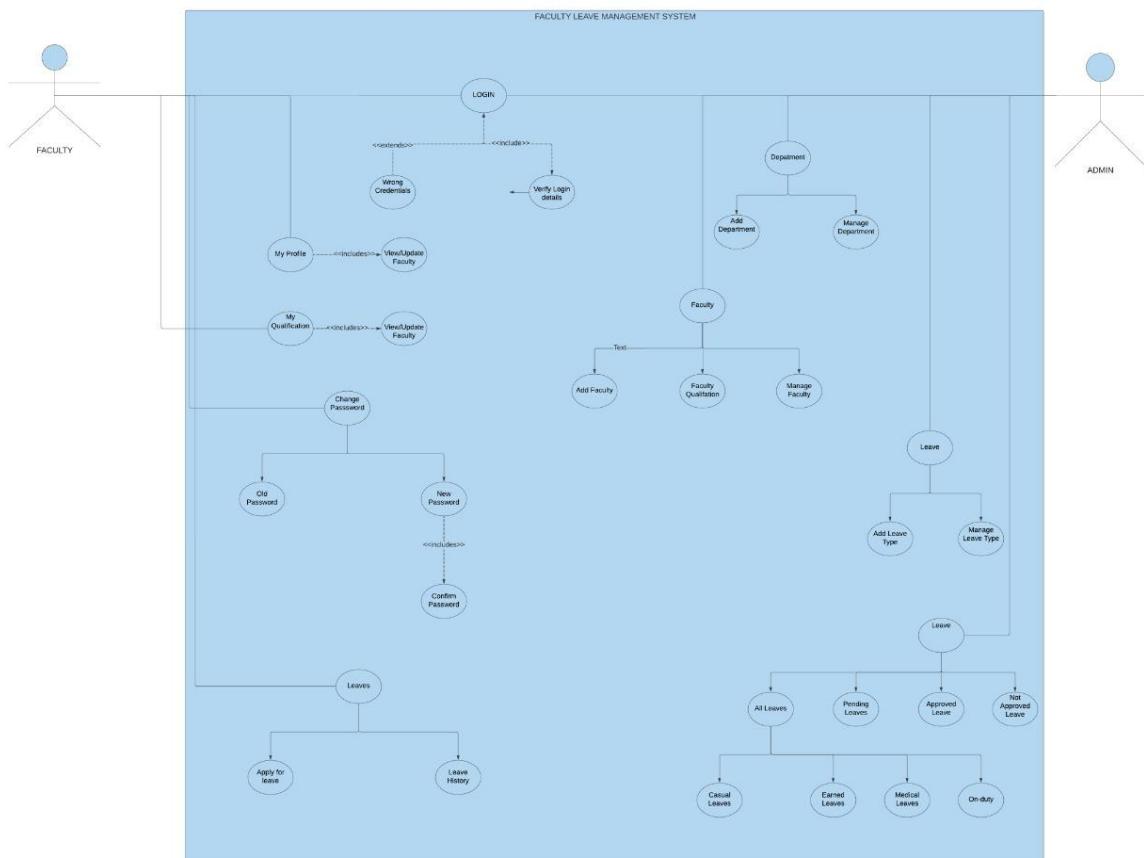
SELENIUM PYCHARM — UI TESTING

JENKINS — INTEGRATION TESTING

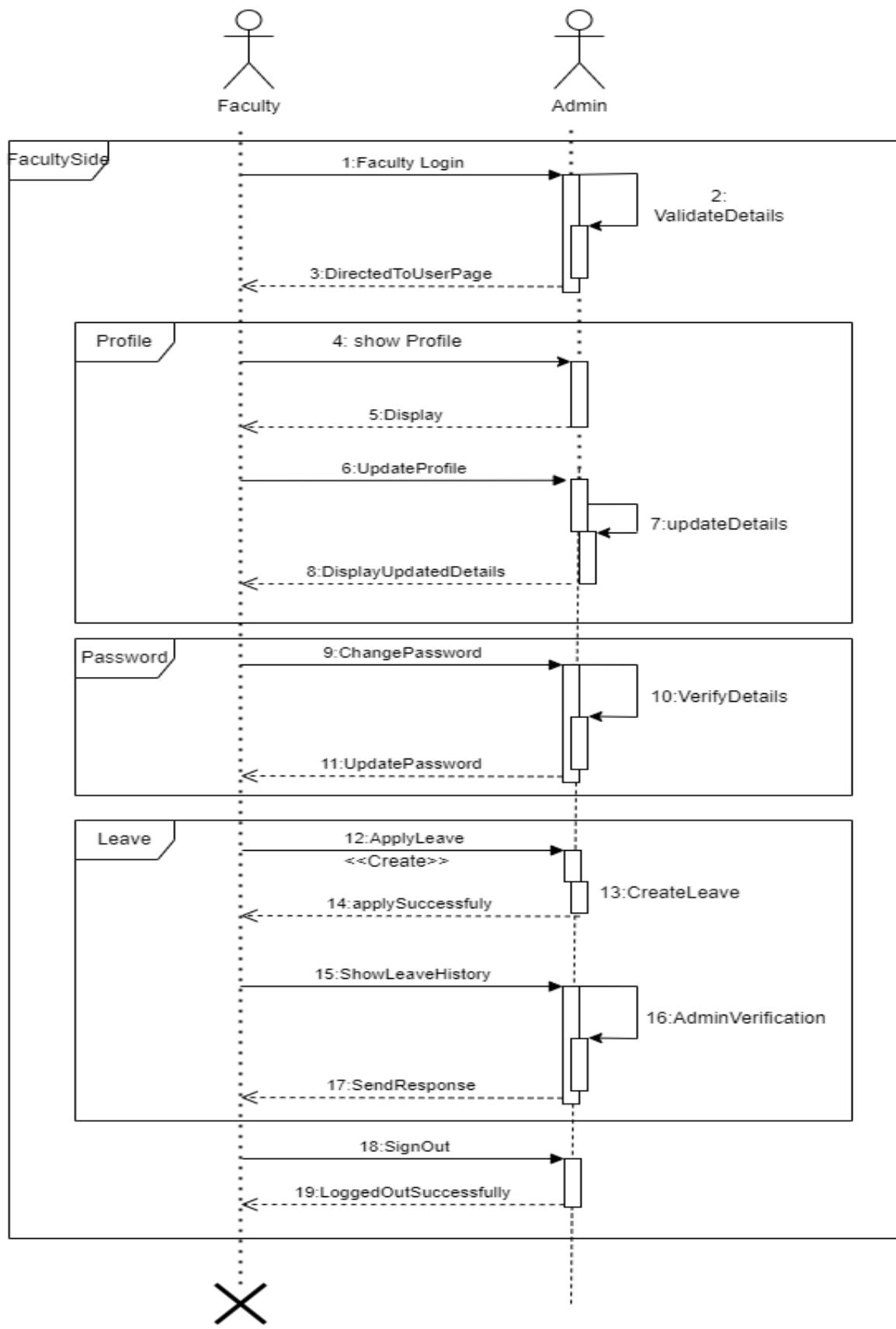
TEST PROJECT — UI TESTING

Use case Diagrams

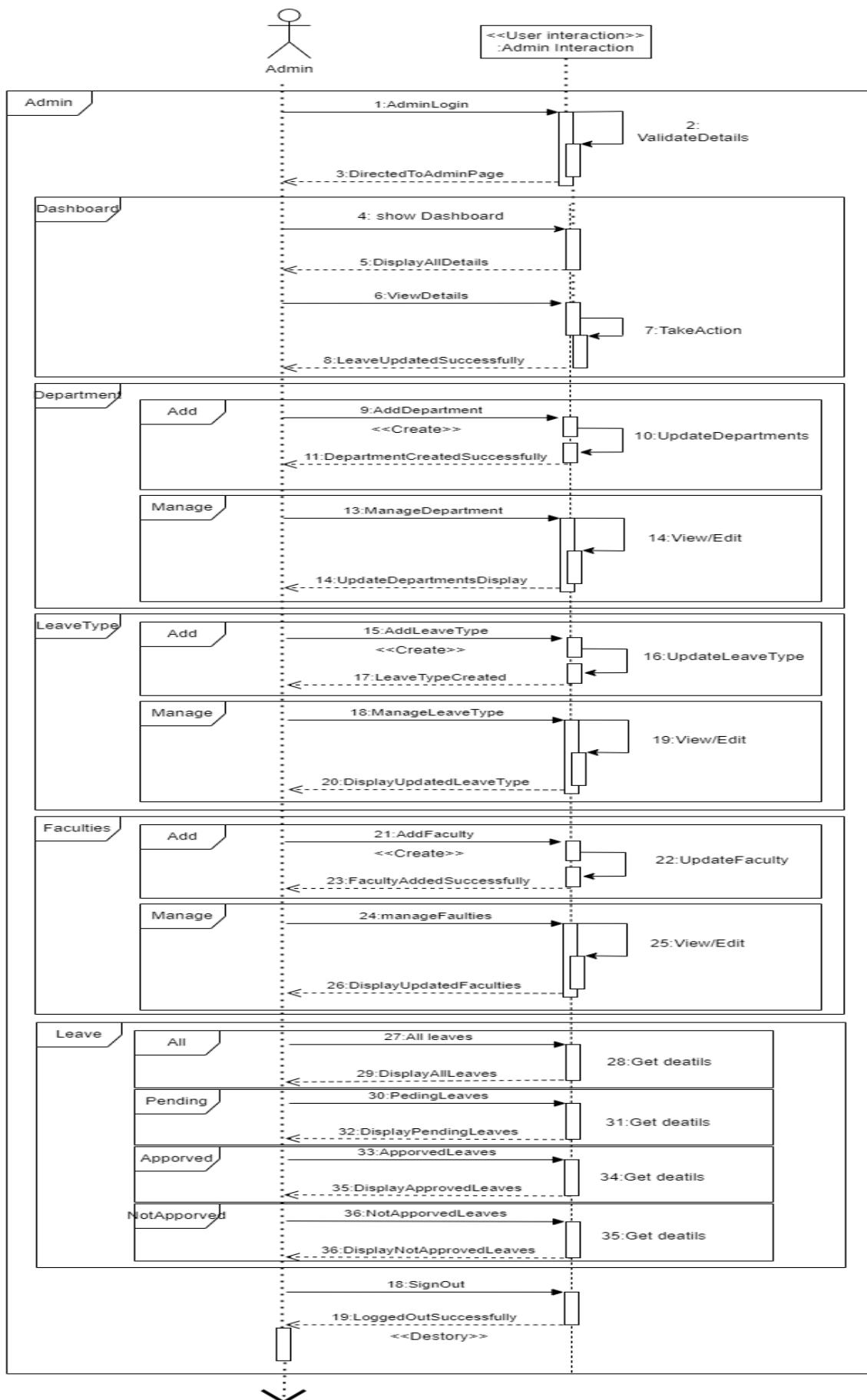
ClassDiagram



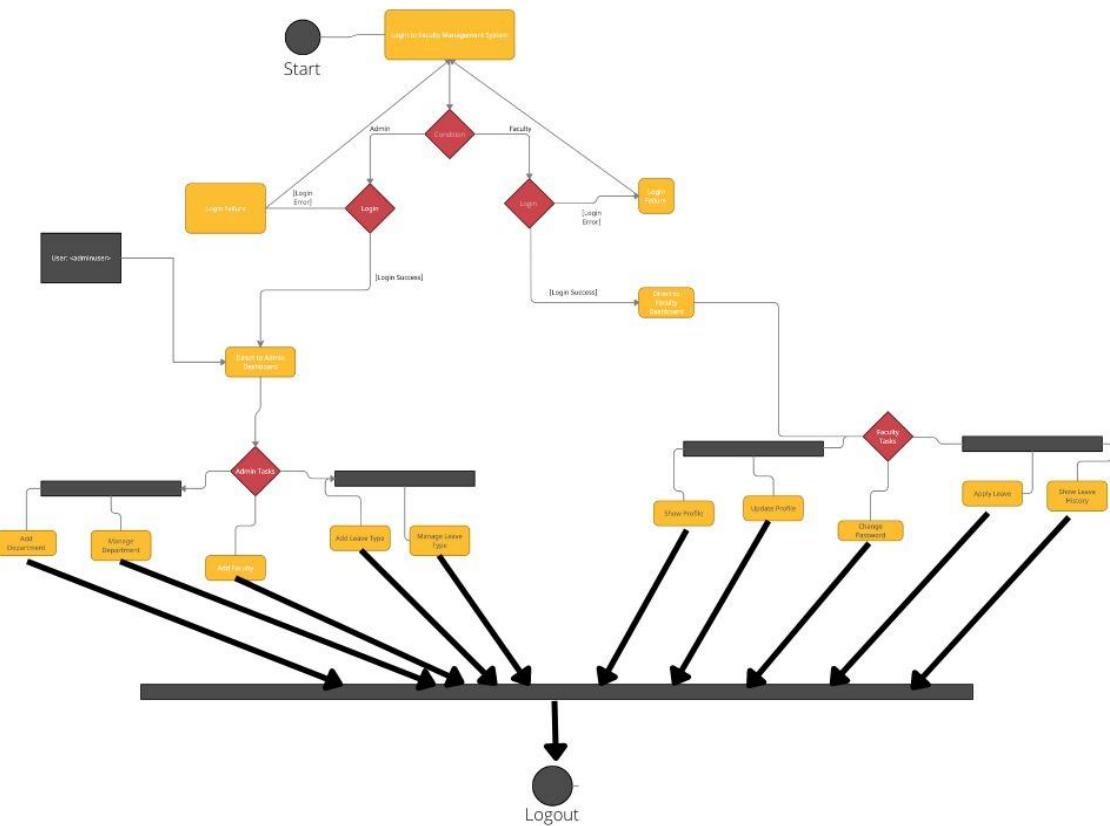
Sequence Diagram -1



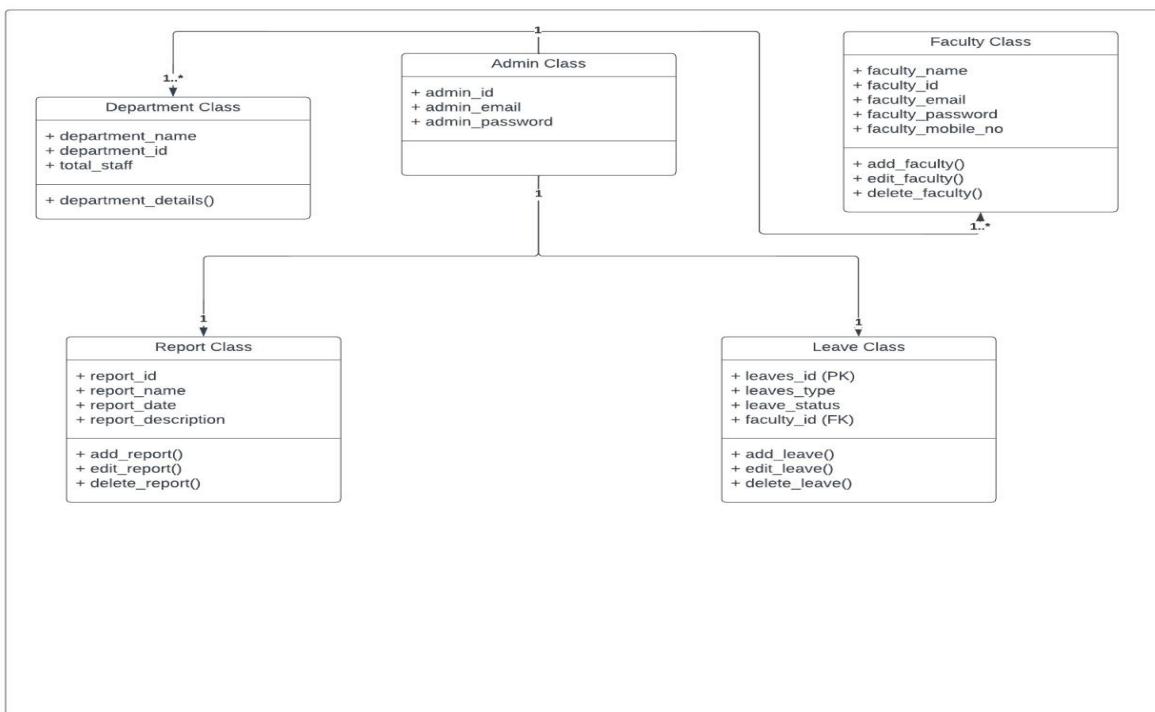
Sequence Diagram -2



Activity Diagram

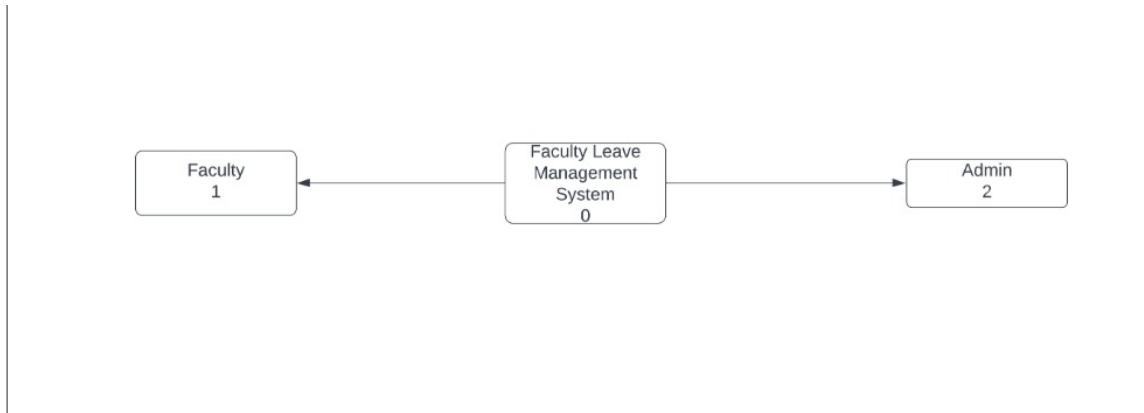


CLASS DIAGRAM

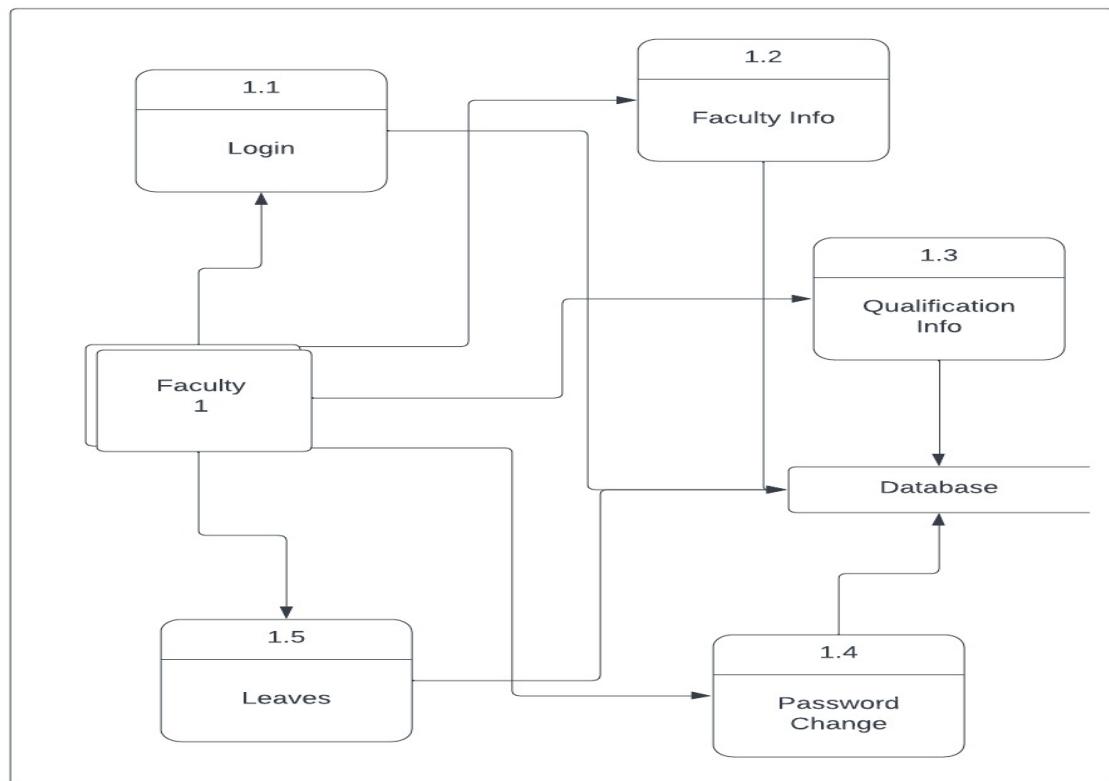


DFD Diagram

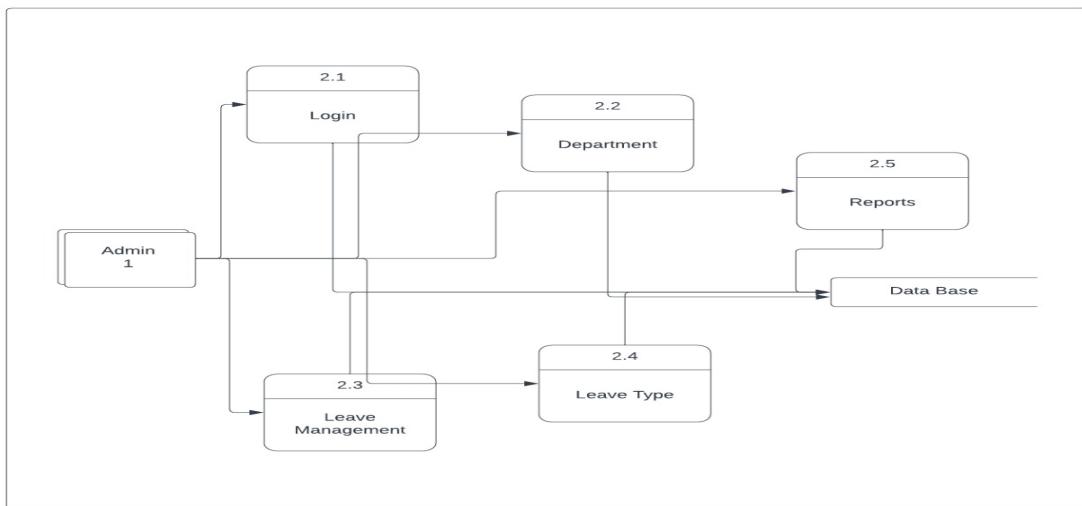
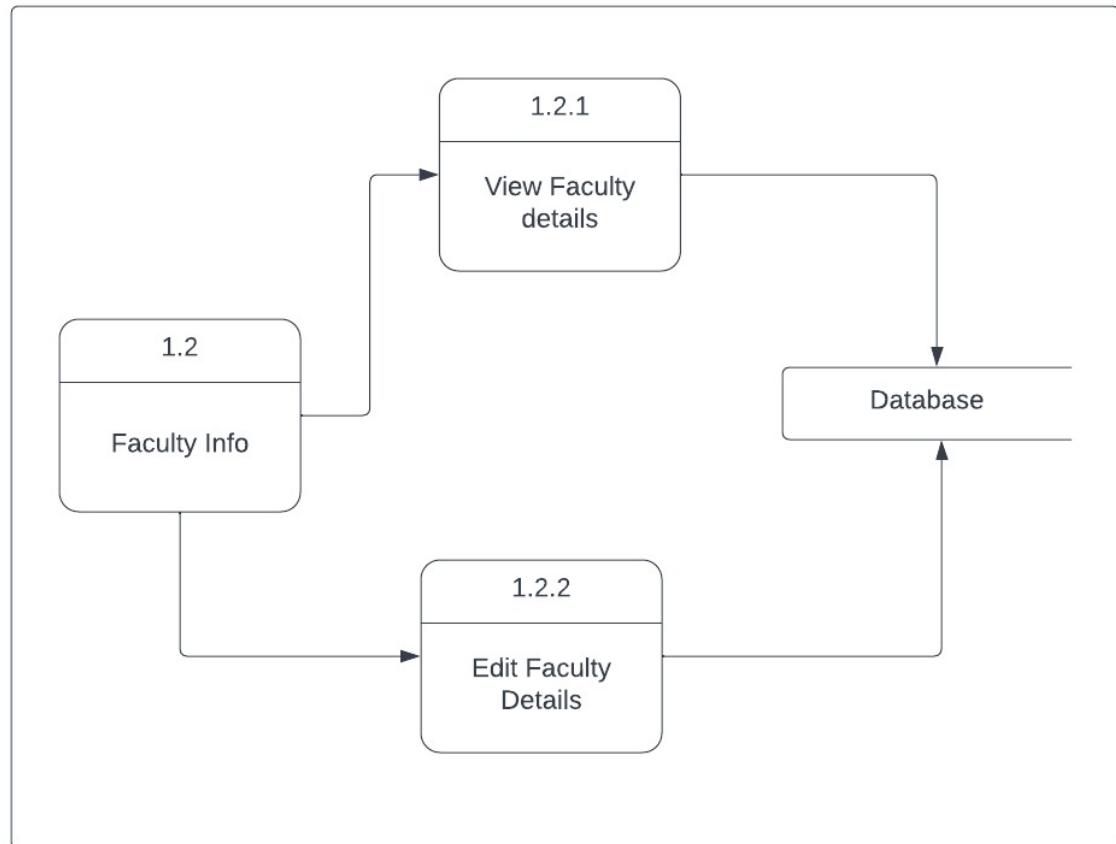
Context level:



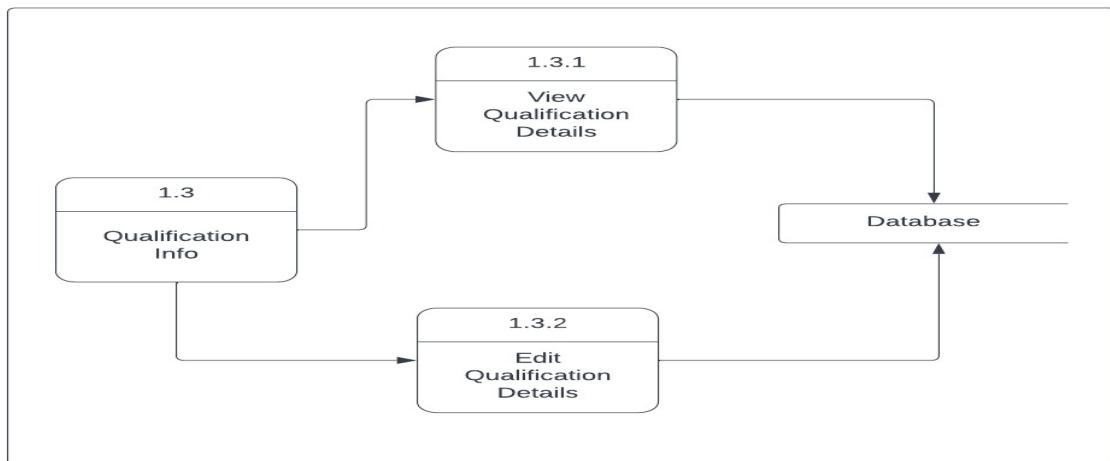
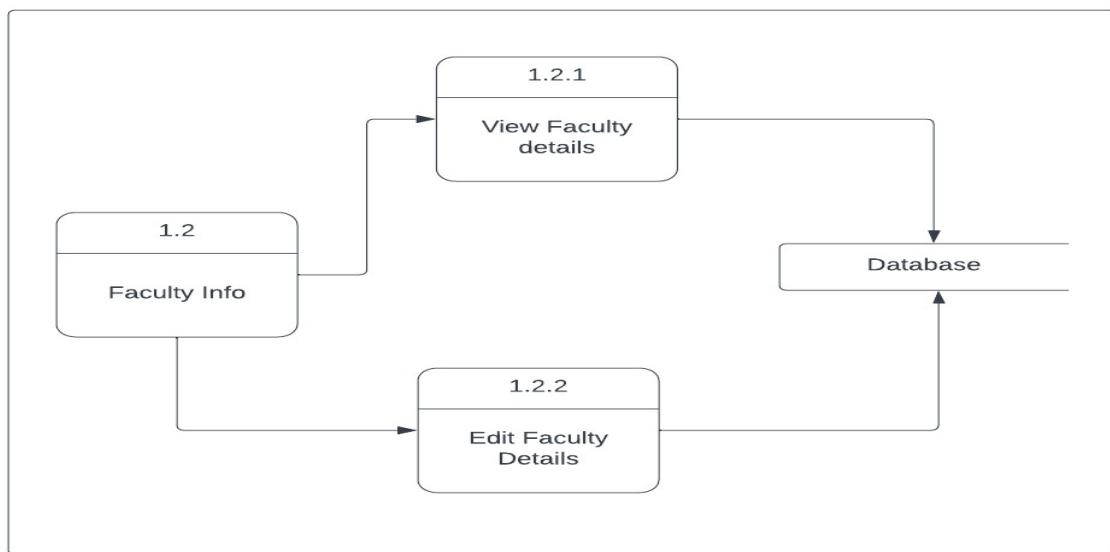
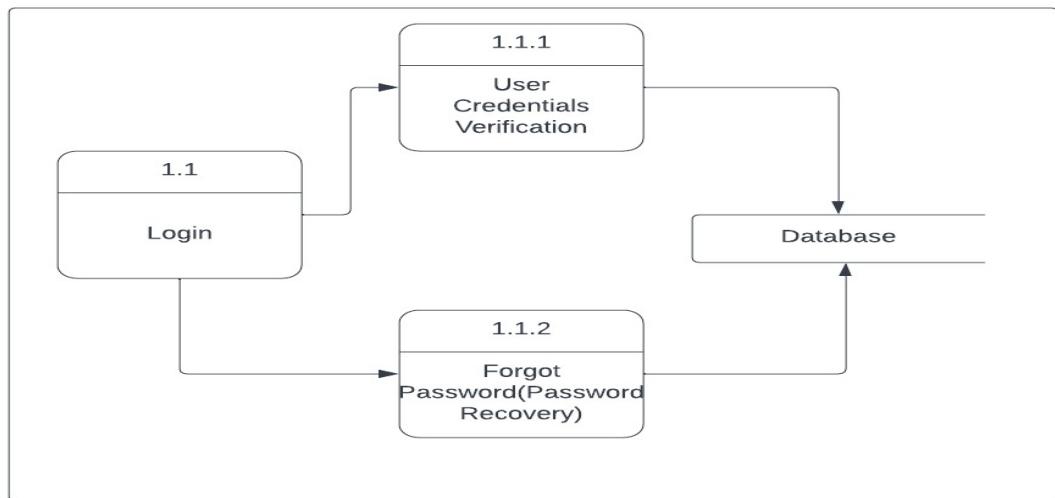
Level 1

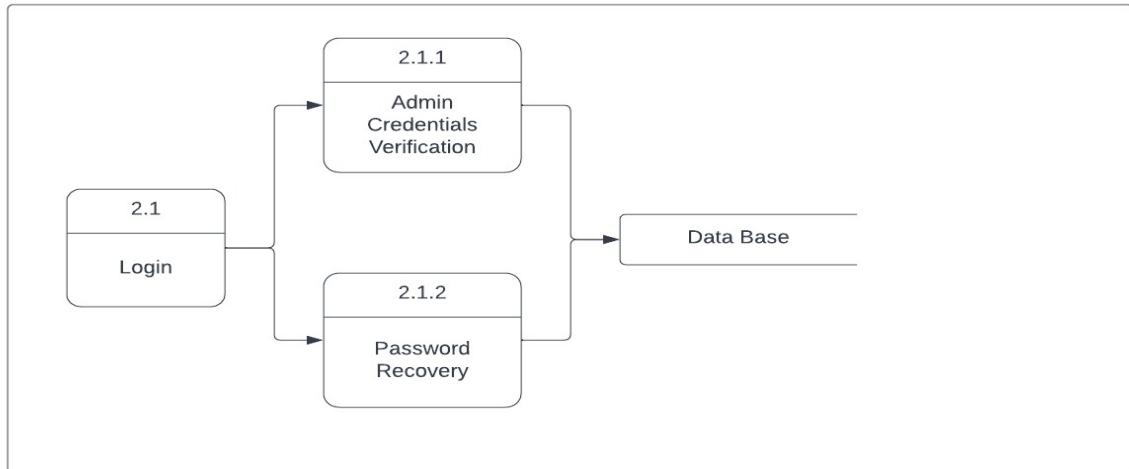
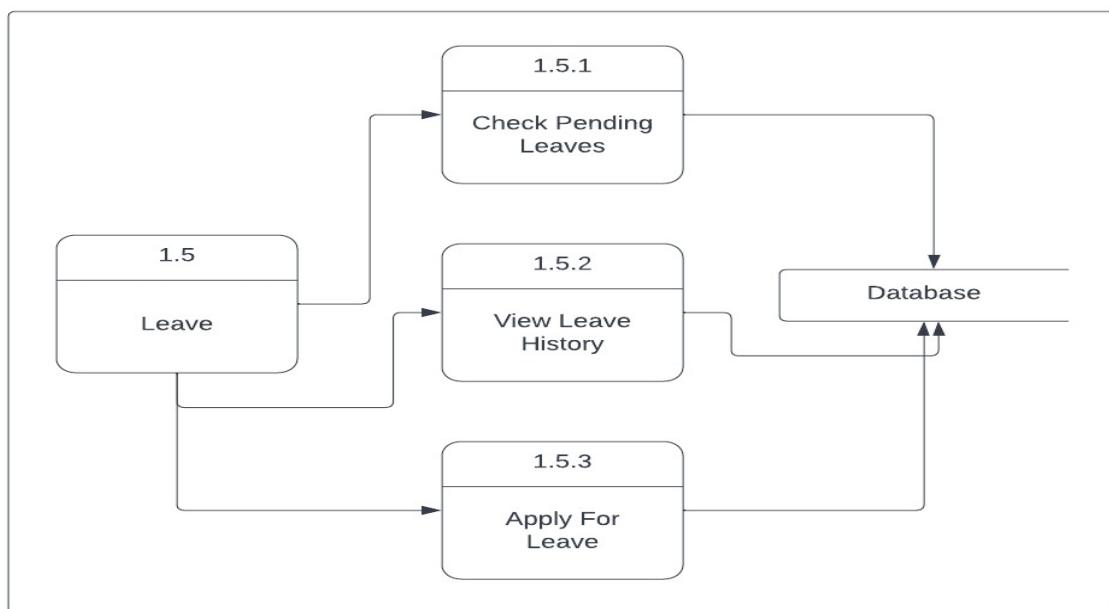
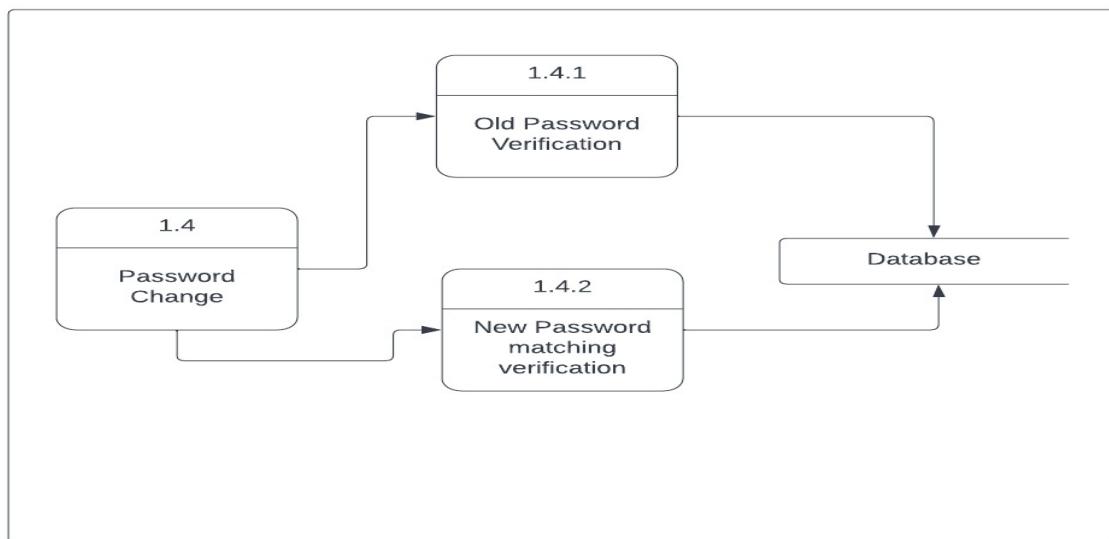


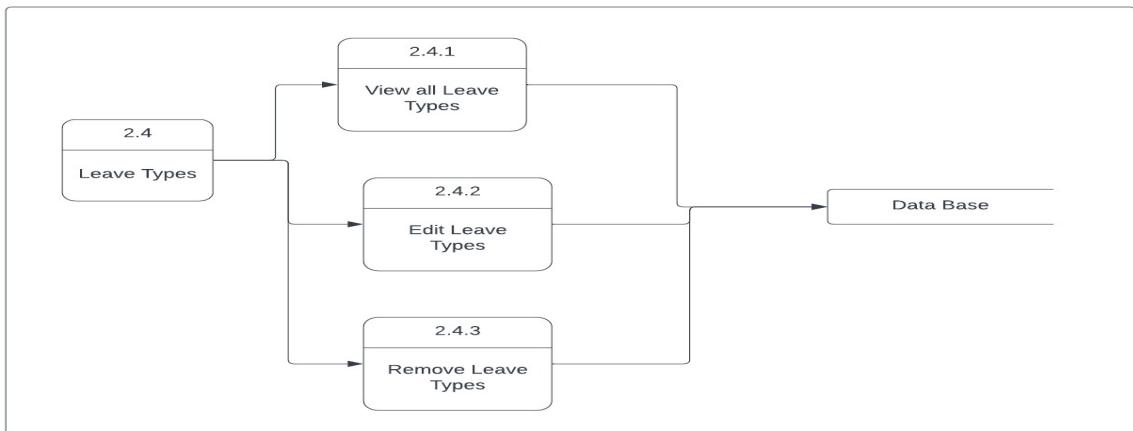
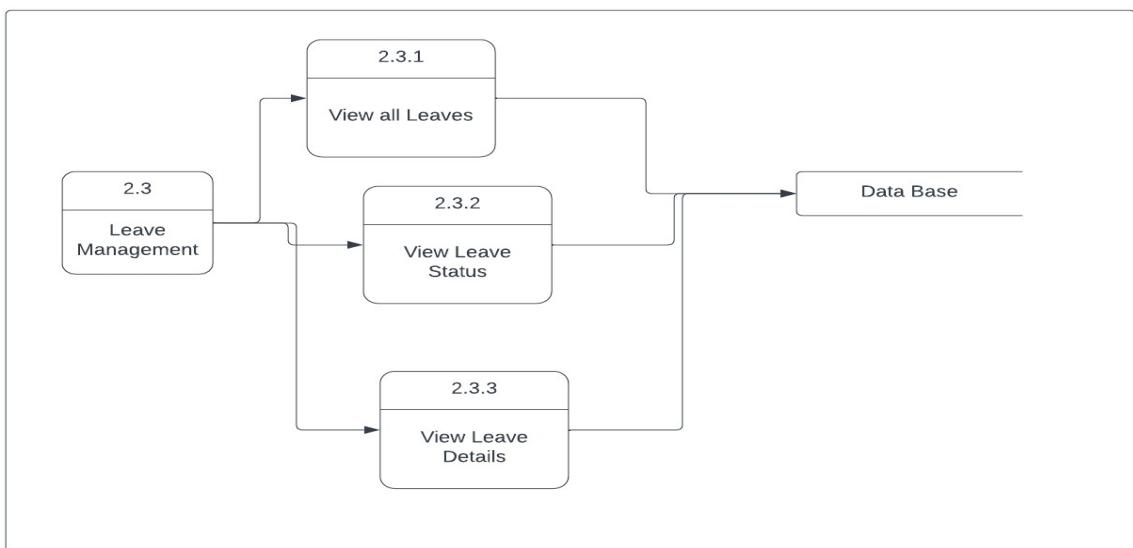
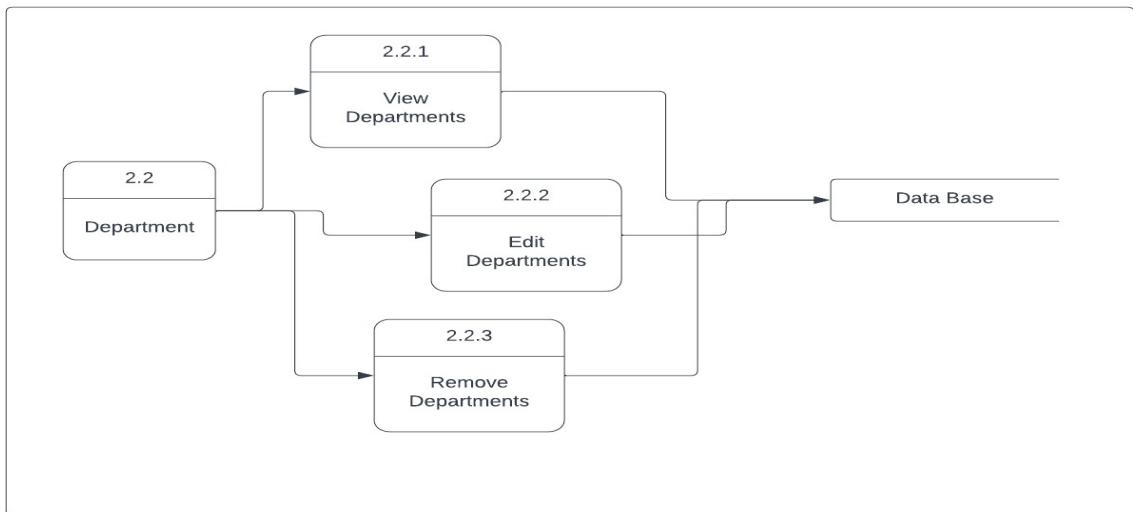
Level 2

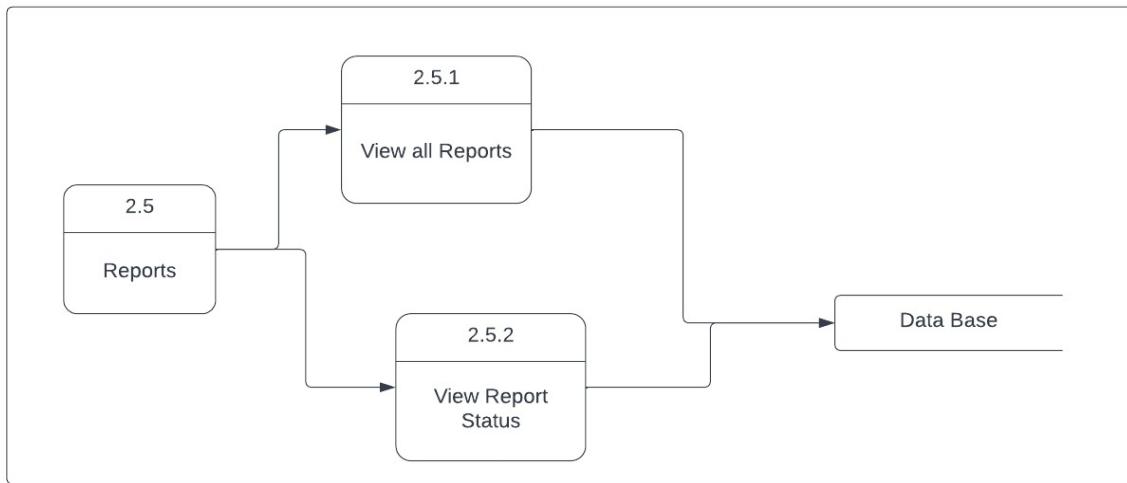


Level 3

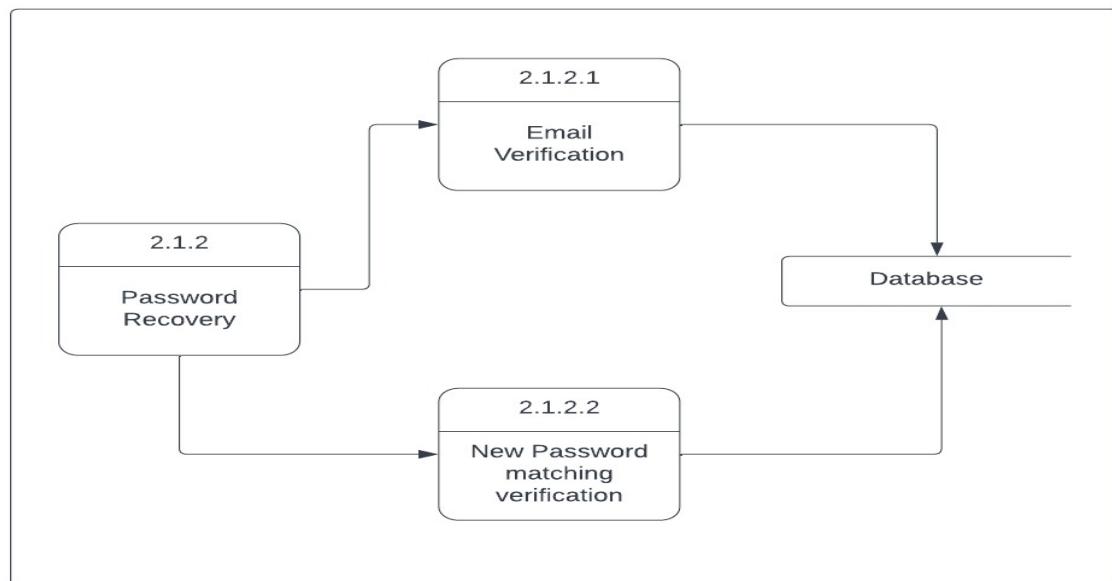








Level 4



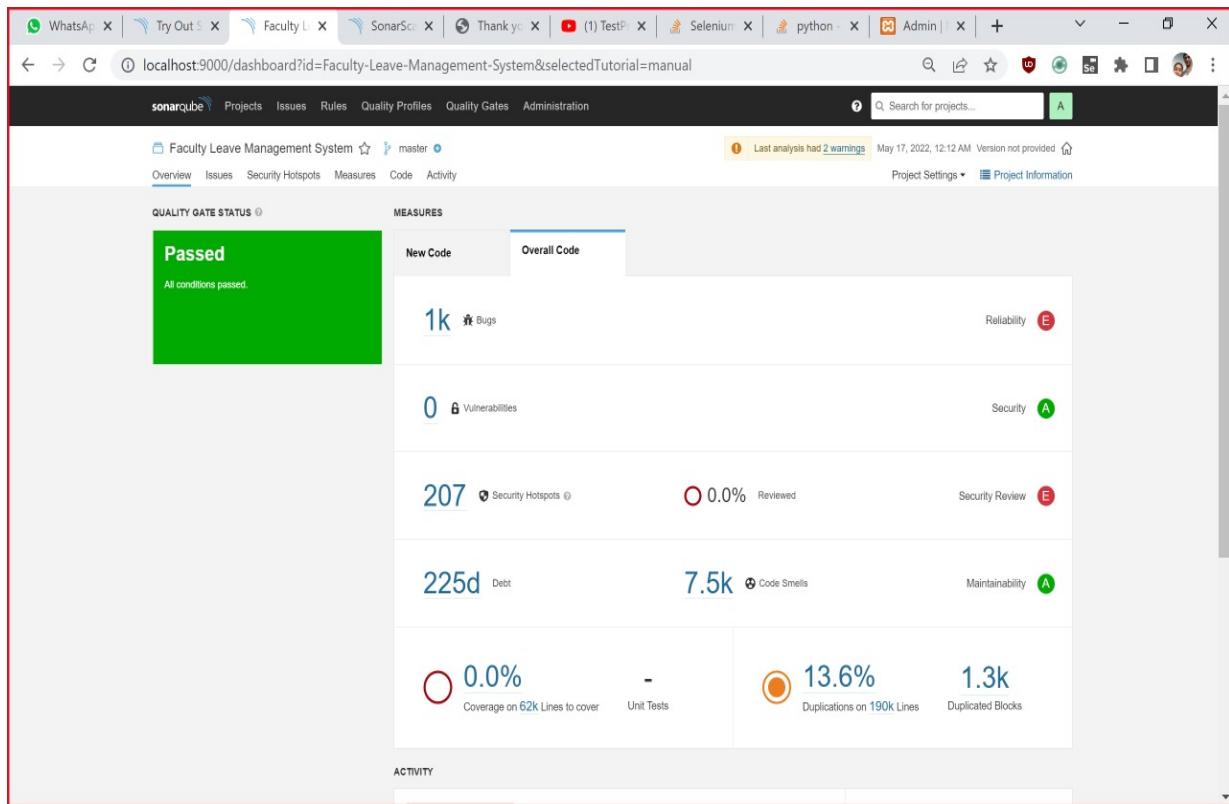
STANDUP NOTES 1 on 01/04/2022

Name	Question	Answer	Sign
Sandeep	What did you do yesterday?	To include faculty registration by admin	Sandeep
	What will you do today?	Design ui page	Sandeep

	Are there any impediments in your way?	Currently No	Sandeep
Hemanth	What did you do yesterday?	Identify the different testing tools	Hemanth
	What will you do today?	Check out more videos to get a grip on the same	Hemanth
	Are there any impediments in your way?	Currently No	Hemanth
Vaishnavi	What did you do yesterday?	Database updation with new tables	Vaishnavi
	What will you do today?	Implement the updated database on backend	Vaishnavi
	Are there any impediments in your way?	Currently No	Vaishnavi
Karthik	What did you do yesterday?	Add faculty option in admin	Karthik
	What will you do today?	Study the backend code and try	Karthik
	Are there any impediments in your way?	Currently No	Karthik
Haranath	What did you do yesterday?	Tried to update the UML diagrams	Haranath
	What will you do today?	Try to update UML diagrams	Haranath
	Are there any impediments in your way?	Currently No	Haranath

TESTING

STATIC CODE ANALYSIS:



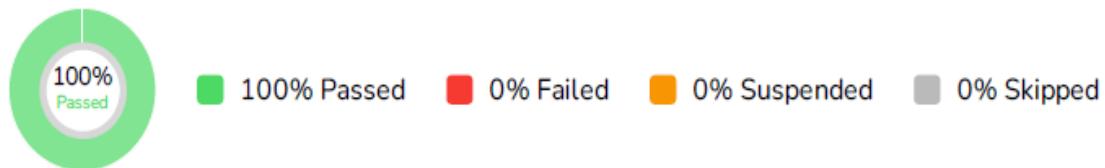
User Interface Testing:(Test Project)

Test Report



Execution ID: zDqrNs-eEEycXT4OqK5C0w
Platform: Web
Test Name: flms
Project: My first Project
Ran By: Karthik Kumar
Agent: karthik On Windows
Started At: May 16, 2022 15:03:59 (UTC)
Duration: 00:01:16.805
Execution Method: Serial

Overall Summary



Tests Results

	Test	Application	Duration	Result
100%	flms	leave	00:01:03.324	Passed

Name: Chrome
Version:
101.0.4951.67

Detailed Report

Test: flms
Target: Chrome (v101.0.4951.67)
Application: leave
Duration: 00:01:03.324
Result: Passed

Step #	Description	Comment	Duration	Result
1	Navigate to http://localhost/fims/	Navigates the specified URL (Auto-generated)	00:00:01.357	Passed
2	Click account_box Faculty Login <Link>		00:00:01.431	Passed
3	Click username <Textbox>	Metadata: [Element]: account_box Faculty Login [XPATH : //a[. = 'account_boxFaculty Login']], [Message]: Element clicked,	00:00:01.301	Passed
		Metadata: [Element]: username [CSSSELECTOR : #username], [Message]: Element clicked,		
4	Type karthik@gmail.com in username <Textbox>		00:00:00.695	Passed
		Metadata: [Element]: username [CSSSELECTOR : #username], [Message]: Text typed, [Input]: keys ← "karthik@gmail.com"		
5	Click password <Textbox>		00:00:00.663	Passed
		Metadata: [Element]: password [CSSSELECTOR : #password], [Message]: Element clicked,		
6	Type karthik in password <Textbox>		00:00:00.629	Passed
		Metadata: [Element]: password [CSSSELECTOR : #password], [Message]: Text typed, [Input]: keys ← "karthik"		
7	Click signin <Button>		00:00:00.859	Passed
		Metadata: [Element]: signin [XPATH : //input], [Message]: Element clicked,		
8	Click My Qualification <Link>		00:00:01.355	Passed
		Metadata: [Element]: My Qualification [XPATH : //a[. = 'My Qualification']], [Message]: Element clicked,		
9	Click Change Password <Link>		00:00:01.302	Passed
		Metadata: [Element]: Change Password [XPATH : //a[. = 'Change Password']], [Message]: Element clicked,		
10	Click Leaves keyboard_arrow_right <Link>		00:00:01.290	Passed
		Metadata: [Element]: Leaves keyboard_arrow_right [XPATH : //a[. = 'Leaveskeyboard_arrow_right']], [Message]: Element click ed,		
11	Click Apply Leave <Link>		00:00:00.804	Passed
		Metadata: [Element]: Apply Leave [XPATH : //a[. = 'Apply Leave']], [Message]: Element clicked,		
12	Click DIV <Div>		00:00:01.326	Passed
		Metadata: [Element]: DIV [XPATH : //div/div/div/div/div], [Message]: Element clicked,		
13	Click Casual Leave 		00:00:00.736	Passed
		Metadata: [Element]: Casual Leave [XPATH : //span[. = 'Casual Leave']], [Message]: Element clicked,		
14	Click fromdate <Textbox>		00:00:00.733	Passed
		Metadata: [Element]: fromdate [CSSSELECTOR : [name="fromdate"]], [Message]: Element clicked,		
15	Click description <textarea>		00:00:00.734	Passed
		Metadata: [Element]: description [CSSSELECTOR : #textareal], [Message]: Element clicked,		
15	Click description <textarea>		00:00:00.734	Passed
		Metadata: [Element]: description [CSSSELECTOR : #textareal], [Message]: Element clicked,		
16	Type shopping in description <textarea>		00:00:00.684	Passed
		Metadata: [Element]: description [CSSSELECTOR : #textareal], [Message]: Text typed, [Input]: keys ← "shopping"		
17	Click apply <Button>		00:00:00.794	Passed
		Metadata: [Element]: apply [CSSSELECTOR : #apply], [Message]: Element clicked,		
18	Click Leaves keyboard_arrow_right <Link>		00:00:00.706	Passed
		Metadata: [Element]: Leaves keyboard_arrow_right [XPATH : //a[. = 'Leaveskeyboard_arrow_right']], [Message]: Element click ed,		
19	Click Leave History <Link>		00:00:00.827	Passed
		Metadata: [Element]: Leave History [XPATH : //a[. = 'Leave History']], [Message]: Element clicked,		
20	Click keyboard_arrow_right <>		00:00:01.283	Passed
		Metadata: [Element]: keyboard_arrow_right [XPATH : //i[. = 'keyboard_arrow_right']], [Message]: Element clicked,		
21	Click Pending Leaves <Link>		00:00:00.868	Passed
		Metadata: [Element]: Pending Leaves [XPATH : //a[. = 'Pending Leaves']], [Message]: Element clicked,		

22	Click exit_to_app Sign Out <Link>	00:00:01.342	Passed
Metadata: [Element]: exit_to_app Sign Out [XPATH : //a[.= 'exit_to_appSign Out']], [Message]: Element clicked,			
23	Click account_box Admin Login <Link>	00:00:01.347	Passed
Metadata: [Element]: account_box Admin Login [XPATH : //a[.= 'account_boxAdmin Login']], [Message]: Element clicked,			
24	Click username <Textbox>	00:00:01.372	Passed
Metadata: [Element]: username [CSSSELECTOR : #username], [Message]: Element clicked,			
25	Type admin in username <Textbox>	00:00:00.699	Passed
Metadata: [Element]: username [CSSSELECTOR : #username], [Message]: Text typed, [Input]: keys ← "admin"			
26	Click password <Textbox>	00:00:00.750	Passed
Metadata: [Element]: password [CSSSELECTOR : #password], [Message]: Element clicked,			
27	Type Test@12345 in password <Textbox>	00:00:00.625	Passed
Metadata: [Element]: password [CSSSELECTOR : #password], [Message]: Text typed, [Input]: keys ← "Test@12345"			
28	Send ENTER key(s)	00:00:00.732	Passed
Metadata: [Element]: password [CSSSELECTOR : #password], [Message]: Sent ENTER, [Input]: keys ← "ENTER"			
29	Click keyboard_arrow_right1 <i>	00:00:01.287	Passed
Metadata: [Element]: keyboard_arrow_right1 [XPATH : //li[2]/i[.= 'keyboard_arrow_right']], [Message]: Element clicked,			
30	Click Add Department <Link>	00:00:00.833	Passed
Metadata: [Element]: Add Department [XPATH : //a[.= 'Add Department']], [Message]: Element clicked,			
31	Click keyboard_arrow_right1 <i>	00:00:01.295	Passed
Metadata: [Element]: keyboard_arrow_right1 [XPATH : //li[2]/i[.= 'keyboard_arrow_right']], [Message]: Element clicked,			
32	Click Manage Department <Link>	00:00:00.809	Passed
Metadata: [Element]: Manage Department [XPATH : //a[.= 'Manage Department']], [Message]: Element clicked,			
33	Click keyboard_arrow_right2 <i>	00:00:01.266	Passed
Metadata: [Element]: keyboard_arrow_right2 [XPATH : //li[3]/i[.= 'keyboard_arrow_right']], [Message]: Element clicked,			
34	Click Add Faculty <Link>	00:00:00.901	Passed
Metadata: [Element]: Add Faculty [XPATH : //a[.= 'Add Faculty']], [Message]: Element clicked,			
35	Click Faculty keyboard_arrow_right <Link>	00:00:01.278	Passed
Metadata: [Element]: Faculty keyboard_arrow_right [XPATH : //a[.= 'Facultykeyboard_arrow_right']], [Message]: Element clicked,			
36	Click Faculty Qualification <Link>	00:00:00.816	Passed
Metadata: [Element]: Faculty Qualification [XPATH : //a[.= 'Faculty Qualification']], [Message]: Element clicked,			
37	Click keyboard_arrow_right3 <i>	00:00:01.292	Passed
Metadata: [Element]: keyboard_arrow_right3 [XPATH : //li[4]/i[.= 'keyboard_arrow_right']], [Message]: Element clicked,			
38	Click Add Leave Type <Link>	00:00:00.798	Passed
Metadata: [Element]: Add Leave Type [XPATH : //a[.= 'Add Leave Type']], [Message]: Element clicked,			
39	Click keyboard_arrow_right3 <i>	00:00:01.248	Passed
Metadata: [Element]: keyboard_arrow_right3 [XPATH : //li[4]/i[.= 'keyboard_arrow_right']], [Message]: Element clicked,			
40	Click Manage Leave Type <Link>	00:00:00.827	Passed

	Metadata: [Element]: Manage Leave Type [XPATH : //a[. = 'Manage Leave Type']], [Message]: Element clicked,		
41	Click keyboard_arrow_right4 <i>	00:00:01.270	Passed
	Metadata: [Element]: keyboard_arrow_right4 [XPATH : //li[5]/i[. = 'keyboard_arrow_right']], [Message]: Element clicked,		
42	Click All Leaves <Link>	00:00:00.816	Passed
	Metadata: [Element]: All Leaves [XPATH : //a[. = 'All Leaves ']], [Message]: Element clicked,		
43	Click keyboard_arrow_right4 <i>	00:00:01.261	Passed
	Metadata: [Element]: keyboard_arrow_right4 [XPATH : //li[5]/i[. = 'keyboard_arrow_right']], [Message]: Element clicked,		
44	Click Approved Leaves <Link>	00:00:00.855	Passed
	Metadata: [Element]: Approved Leaves [XPATH : //a[. = 'Approved Leaves ']], [Message]: Element clicked,		
45	Click keyboard_arrow_right4 <i>	00:00:01.266	Passed
	Metadata: [Element]: keyboard_arrow_right4 [XPATH : //li[5]/i[. = 'keyboard_arrow_right']], [Message]: Element clicked,		
46	Click Pending Leaves1 <Link>	00:00:00.839	Passed
	Metadata: [Element]: Pending Leaves1 [XPATH : //a[. = 'Pending Leaves ']], [Message]: Element clicked,		
47	Click VIEW DETAILS <Link>	00:00:01.376	Passed
	Metadata: [Element]: VIEW DETAILS [XPATH : //tr[1]/a[. = ' View Details']], [Message]: Element clicked,		
48	Click TAKE ACTION <Link>	00:00:01.297	Passed
	Metadata: [Element]: TAKE ACTION [XPATH : //a[. = 'Take Action']], [Message]: Element clicked,		
49	Click status <Select>	00:00:00.769	Passed
	Metadata: [Element]: status [CSSSELECTOR : [name='status']], [Message]: Element clicked,		
50	Select the 1 option in status <Select>	00:00:00.706	Passed
	Metadata: [Element]: status [CSSSELECTOR : [name='status']], [Message]: Option selected, [Input]: value ← "1"		
51	Click status <Select>	00:00:00.755	Passed
	Metadata: [Element]: status [CSSSELECTOR : [name='status']], [Message]: Element clicked,		
52	Click description <textarea>	00:00:00.694	Passed
	Metadata: [Element]: description [CSSSELECTOR : #textarea1], [Message]: Element clicked,		
53	Type ok in description <textarea>	00:00:00.651	Passed
	Metadata: [Element]: description [CSSSELECTOR : #textarea1], [Message]: Text typed, [Input]: keys ← "ok"		
54	Click update <Button>	00:00:00.880	Passed
	Metadata: [Element]: update [CSSSELECTOR : [name='update']], [Message]: Element clicked,		
55	Click Reports keyboard_arrow_right <Link>	00:00:01.263	Passed
	Metadata: [Element]: Reports keyboard_arrow_right [XPATH : //a[. = 'Reportskeyboard_arrow_right']], [Message]: Element clicked,		
56	Click Leave Report <Link>	00:00:00.870	Passed
	Metadata: [Element]: Leave Report [XPATH : //a[. = 'Leave Report']], [Message]: Element clicked,		
57	Click Reports keyboard_arrow_right <Link>	00:00:01.267	Passed
	Metadata: [Element]: Reports keyboard_arrow_right [XPATH : //a[. = 'Reportskeyboard_arrow_right']], [Message]: Element clicked,		
58	Click Faculty Report <Link>	00:00:00.804	Passed
	Metadata: [Element]: Faculty Report [XPATH : //a[. = 'Faculty Report']], [Message]: Element clicked,		
59	Click Leave Management keyboard_arrow_right <Link>	00:00:01.293	Passed
	Metadata: [Element]: Leave Management keyboard_arrow_right [XPATH : //a[. = 'Leave Managementkeyboard_arrow_right']], [Message]: Element clicked,		
60	Click Pending Leaves1 <Link>	00:00:00.845	Passed
	Metadata: [Element]: Pending Leaves1 [XPATH : //a[. = 'Pending Leaves ']], [Message]: Element clicked,		
61	Click keyboard_arrow_right5 <i>	00:00:01.288	Passed
	Metadata: [Element]: keyboard_arrow_right5 [XPATH : //li[6]/i[. = 'keyboard_arrow_right']], [Message]: Element clicked,		
62	Click Faculty Report <Link>	00:00:00.800	Passed
	Metadata: [Element]: Faculty Report [XPATH : //a[. = 'Faculty Report']], [Message]: Element clicked,		
63	Click exit_to_app Sign Out1 <Link>	00:00:01.326	Passed
	Metadata: [Element]: exit_to_app Sign Out1 [XPATH : //a[. = 'exit_to_appSign Out']], [Message]: Element clicked,		

Integration Testing:(Jenkins)

5/16/22, 9:03 PM TestProject_WebTest #5 Console [Jenkins]

1 1

Dashboard > TestProject_WebTest > #5

Back to Project

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#5'

Previous Build

Console Output

Started by user [Karthik Kumar N](#)

Running as SYSTEM

Building in workspace C:\Users\karthik\.jenkins\workspace\TestProject_WebTest

Sending a test run command to TestProject

Starting TestProject test vFzkCtv2GU6MxFIyoBz3cw under project M8QP-vgHAUGplEGAPSo-2A...

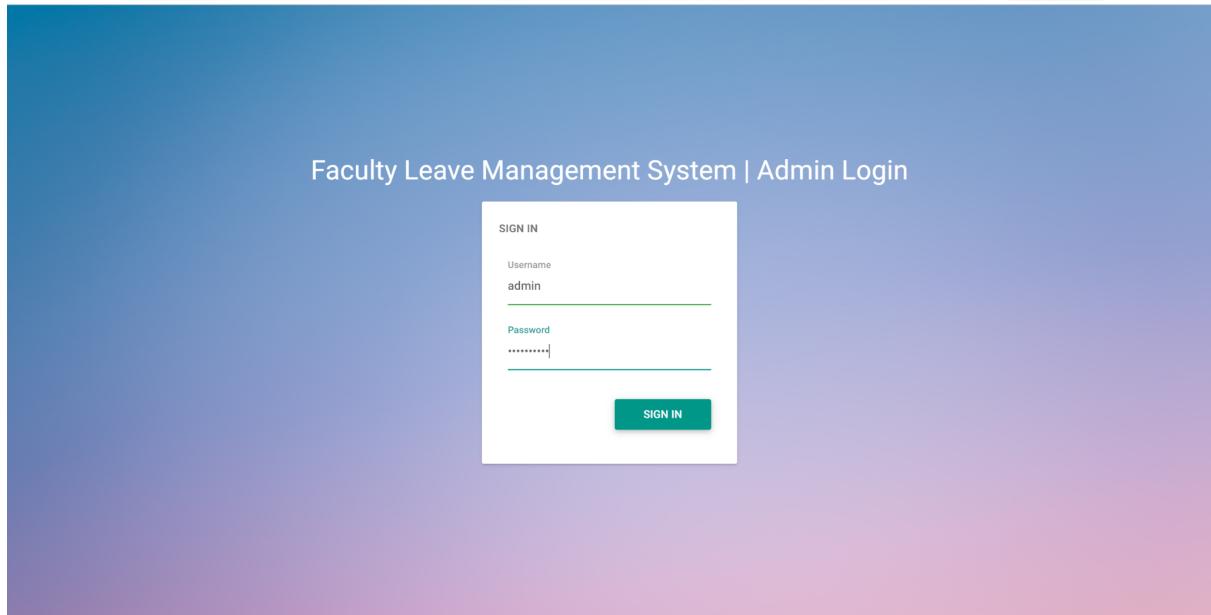
Execution id: tDf5eyXRwEK9Xr0x1CmCvg

Will not wait for execution to finish

TEST vFzkCtv2GU6MxFIyoBz3cw under project M8QP-vgHAUGplEGAPSo-2A was started successfully

Finished: SUCCESS

UI TESTING:(SELENIUM)



The screenshot shows the 'FACULTY LEAVE MANAGEMNET SYSTEM' dashboard for an 'Admin' user. The left sidebar includes links for Dashboard, Department (Add Department, Manage Department), Faculty, Leave Type, Leave Management, Reports, and Sign Out. The main area displays summary statistics: 6 TOTAL REGD FACULTIES, 3 LISTED DEPARTMENTS, and 7 LISTED LEAVE TYPE. Below this is a table titled 'LATEST LEAVE APPLICATIONS' showing four entries:

#	Faculty Name	Leave Type	Posting Date	Status	Action
1	vaishnavi k(FAC1)	Restricted Holiday(RH)	2017-12-03 13:59:07	Approved	<button>VIEW</button>
2	hemanth A(FAC2)	Medical Leave test	2017-12-02 23:56:01	waiting for approval	<button>VIEW</button>
3	vaishnavi k(FAC1)	Medical Leave test	2017-11-20 16:44:14	Approved	<button>VIEW</button>
4	vaishnavi k(FAC1)	Casual Leave	2017-11-19 18:41:21	Not Approved	<button>VIEW</button>

FACULTY LEAVE MANAGEMENT SYSTEM

The screenshot shows the 'FACULTY LOGIN' form. It has two input fields: 'Email Id' containing 'hemanth@gmail.com' and 'Password' containing '*****'. A 'SIGN IN' button is at the bottom.

FACULTY LEAVE MANAGEMENT SYSTEM

The screenshot shows the 'FACULTY PROFILE VIEW / EDIT' form. On the left, there's a sidebar with user info: 'hemanth A' and 'FAC2'. The main form contains the following data:

Faculty Code	FAC2	Male	Date of Birth
First name	hemanth	A	3 February, 2002
Email	hemanth@gmail.com	it	Address
Mobile number	8587944255	west godavari	palakol
		UPDATE	

TEST CASE -1:

#ADMIN LOGIN WITH CORRECT LOGIN CREDENTIALS

```
from selenium import webdriver
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.common.action_chains import ActionChains
driver = webdriver.Chrome(executable_path="C:\\\\Program Files\\\\(x86)\\\\chromedriver.exe")
driver.get("http://localhost/flms/admin/")

driver.find_element_by_xpath('//*[@id="username"]').send_keys("admin")
```

```
driver.find_element_by_xpath('//*[@id="password"]').send_keys("admin")
```

```

driver.find_element_by_xpath('//*[@id="password"]').send_keys("Test@12345")
driver.find_element_by_xpath('/html/body/div[2]/main/div/div/div/div/div/div/form/div[3]/i/input').click()
act_title=driver.find_element_by_xpath('/html/head/title').get_attribute('href')
print(act_title)
act_title=driver.title
exp_title="Admin | Dashboard"

if act_title==exp_title:
    print("login test passed")
else:
    print("login test is failed")

driver.close()

```

OUTPUT:

The screenshot shows the PyCharm IDE interface. The top menu bar includes File, Edit, View, Navigate, Code, Refactor, Run, Tools, VCS, Window, Help, and seleniumproject - FirstTestCase.py. The main window displays the code for 'FirstTestCase.py' in the Project tab. The code is identical to the one shown above. Below the code editor is the Run tab, which shows the output of the run: "login test passed". The bottom status bar indicates PyCharm 2022.1.1 available // Update... (1 hour ago), 16:1 CRLF, UTF-8, 4 spaces, Python 3.9 (seleniumproject), and an Event Log.

TEST CASE - 2:

#FACULTY LOGIN WITH CORRECT CREDENTIALS

```

from selenium import webdriver
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.common.action_chains import ActionChains
driver = webdriver.Chrome(executable_path="C:\\\\Program Files (x86)\\\\chromedriver.exe")
driver.get("http://localhost/flms/fac_login.php")

#driver.find_element_by_name("").send_keys("admin")
driver.find_element_by_xpath('//*[@id="username"]').send_keys("vaishnavi@gmail.com")
driver.find_element_by_xpath('//*[@id="password"]').send_keys("Test@123")
driver.find_element_by_xpath('/html/body/div[4]/main/div/div/div/div/div/form/div[3]/i/input').click()

```

```

act_title=driver.find_element_by_xpath('/html/head/title').get_attribute('href')

act_title=driver.title
exp_title="Admin | Faculty Profile"

if act_title==exp_title:
    print("Faculty login test passed")
else:
    print("Faculty login test is failed")

driver.close()

```

OUTPUT:

The screenshot shows the PyCharm IDE interface. The top navigation bar includes File, Edit, View, Navigate, Code, Refactor, Run, Tools, VCS, Window, Help, and seleniumproject - SecondTestCase.py. The main area displays the Python code for SecondTestCase.py. The code imports Selenium WebDriver, sets up the driver, navigates to a local host URL, performs login actions, retrieves the title, and prints the result. The bottom status bar indicates the project is using Python 3.9 and the file was updated at 2:02 PM.

```

from selenium.webdriver.chrome.service import Service
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.common.action_chains import ActionChains
driver = webdriver.Chrome(executable_path="C:\\Program Files (x86)\\chromedriver.exe")
driver.get("http://localhost/elms/index.php")

#driver.find_element_by_name("").send_keys("admin")
driver.find_element_by_xpath('//*[@id="username"]').send_keys("vaishnavi@gmail.com")
driver.find_element_by_xpath('//*[@id="password"]').send_keys("Test@123")
driver.find_element_by_xpath('/html/body/div[4]/main/div/div[2]/div/div/form/div[3]/input').click()
act_title=driver.find_element_by_xpath('/html/head/title').get_attribute('href')

act_title=driver.title
exp_title="Employee | Change Password"

if act_title==exp_title:
    print("Faculty login test passed")
else:
    print("Faculty login test is failed")

```

Run: SecondTestCase

- ↑ Faculty login test passed
- ↓ Process finished with exit code 0

PyCharm 2022.1.1 available // Update... (today 2:02 PM)

16:1 Python 3.9 (seleniumproject)

TEST CASE - 3

#CHECKING WHETHER NEW LEAVES WERE ADDED AND ITS NAVIGATION FROM PAGE TO PAGE

```

from selenium import webdriver
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.common.action_chains import ActionChains
driver = webdriver.Chrome(executable_path="C:\\Program Files (x86)\\chromedriver.exe")
driver.get("http://localhost/flms/admin/")

#driver.find_element_by_name("").send_keys("admin")
driver.find_element_by_xpath('//*[@id="username"]').send_keys("admin")
driver.find_element_by_xpath('//*[@id="password"]').send_keys("Test@12345")

```

```

driver.find_element_by_xpath('/html/body/div[2]/main/div/div/div/div/div/div/form/div[3]/i/input').click()
act_title=driver.find_element_by_xpath('/html/head/title').get_attribute('href')
driver.find_element_by_xpath('//*[@id="slide-out"]/div/ul/li[4]/a').click()
driver.find_element_by_xpath('//*[@id="slide-out"]/div/ul/li[4]/div/ul/li[1]/a').click()
driver.find_element_by_xpath('//*[@id="leavetype"]').send_keys("Restricted Holiday")
driver.find_element_by_xpath('//*[@id="textareal"]').send_keys("Leave With Restrictions")
driver.find_element_by_xpath('/html/body/div[4]/main/div/div[2]/div/div/div/div/div[3]/button').click()

driver.close()

```

TEST CASE - 4

#CHECKING WEATHER NEW FACULTY WERE ADDED AND ITS NAVIGATION FROM PAGE TO PAGE ALONG WITH BUTTON FUNCTIONING

```

from selenium import webdriver
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.common.action_chains import ActionChains
driver = webdriver.Chrome(executable_path="C:\\Program Files (x86)\\chromedriver.exe")
driver.get("http://localhost/flms/admin/")
#driver.find_element_by_name("").send_keys("admin")
driver.find_element_by_xpath('//*[@id="username"]').send_keys("admin")
driver.find_element_by_xpath('//*[@id="password"]').send_keys("Test@12345")
driver.find_element_by_xpath('/html/body/div[2]/main/div/div/div/div/div/form/div[3]/i/input').click()
act_title=driver.find_element_by_xpath('/html/head/title').get_attribute('href')
driver.find_element_by_xpath('//*[@id="slide-out"]/div/ul/li[3]/a').click()
driver.find_element_by_xpath('//*[@id="slide-out"]/div/ul/li[3]/div/ul/li[1]/a').click()
driver.find_element_by_xpath('//*[@id="empcode"]').send_keys("FAC6")
driver.find_element_by_xpath('//*[@id="firstName"]').send_keys("Sentil Kumar")
driver.find_element_by_xpath('//*[@id="lastName"]').send_keys("Kumar")
driver.find_element_by_xpath('//*[@id="email"]').send_keys("sentilkumar@gmail.com")
driver.find_element_by_xpath('//*[@id="password"]').send_keys("Sentil")
driver.find_element_by_xpath('//*[@id="confirm"]').send_keys("Sentil")
driver.find_element_by_xpath('//*[@id="example-form"]/div/section/div/div/div[2]/div/div[1]/div/input').send_keys("Male")
driver.find_element_by_xpath('//*[@id="example-form"]/div/section/div/div/div[2]/div/div[3]/div/input').send_keys("CSE")
driver.find_element_by_xpath('//*[@id="city"]').send_keys("Tamilnadu")
driver.find_element_by_xpath('//*[@id="phone"]').send_keys("7672432367")
driver.find_element_by_xpath('//*[@id="address"]').send_keys("Tamilnadu")
driver.find_element_by_xpath('//*[@id="country"]').send_keys("India")
driver.find_element_by_xpath('//*[@id="add"]').click()
driver.close()

```

TEST CASE - 5

#ADMIN LOGIN WITH WRONG LOGIN CREDENTIALS

```
from selenium import webdriver
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.common.action_chains import ActionChains
driver = webdriver.Chrome(executable_path="C:\\Program Files\\(x86)\\chromedriver.exe")
driver.get("http://localhost/flms/admin/")

driver.find_element_by_xpath('//*[@id="username"]').send_keys("admin")
driver.find_element_by_xpath('//*[@id="password"]').send_keys("Test@123458765678")
driver.find_element_by_xpath('/html/body/div[2]/main/div/div/div/div/div/div/form/div[3]/i/input').click()
act_title=driver.find_element_by_xpath('/html/head/title').get_attribute('href')
print(act_title)
act_title=driver.title
exp_title="Admin | Dashboard"

if act_title==exp_title:
    print("login test passed")
else:
    print("login test is failed")

driver.close()
```

OUTPUT:

TEST IS FAILED

- Because we gave boundary limits and wrong credentials.

UI TESTING WITH SELENIUM IDE

TEST CASE- 1:

```
# Generated by Selenium IDE
import pytest
import time
import json
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.action_chains import ActionChains
from selenium.webdriver.support import expected_conditions
```

```

from selenium.webdriver.support.wait import WebDriverWait
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.common.desired_capabilities import DesiredCapabilities

class TestAdminlogintest():

    def setup_method(self, method):
        self.driver = webdriver.Chrome()
        self.vars = {}

    def teardown_method(self, method):
        self.driver.quit()

    def test_adminlogintest(self):
        self.driver.get("http://localhost/flms/admin/")
        self.driver.set_window_size(649, 720)
        self.driver.find_element(By.ID, "username").click()
        self.driver.find_element(By.ID, "username").send_keys("admin")
        self.driver.find_element(By.ID, "password").click()
        element = self.driver.find_element(By.CSS_SELECTOR, ".waves-button-input")
        actions = ActionChains(self.driver)
        actions.move_to_element(element).perform()
        self.driver.find_element(By.ID, "password").send_keys("Test@12345")
        self.driver.find_element(By.CSS_SELECTOR, ".waves-button-input").click()
        self.driver.find_element(By.CSS_SELECTOR, ".material-design-hamburger__icon").click()
        self.driver.find_element(By.CSS_SELECTOR, ".no-padding:nth-child(7) > .waves-effect").click()

```

TEST CASE - 2:

```

# Generated by Selenium IDE
import pytest
import time
import json
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.action_chains import ActionChains
from selenium.webdriver.support import expected_conditions
from selenium.webdriver.support.wait import WebDriverWait
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.common.desired_capabilities import DesiredCapabilities

class TestFacultylogintest():

    def setup_method(self, method):
        self.driver = webdriver.Chrome()

```

```

self.vars = {}

def teardown_method(self, method):
    self.driver.quit()

def test_facultylogintest(self):
    self.driver.get("http://localhost/flms/fac_login.php")
    self.driver.set_window_size(649, 720)
    self.driver.find_element(By.ID, "username").click()
    self.driver.find_element(By.ID, "username").send_keys("vaishnavi@gmail.com")
    self.driver.find_element(By.ID, "password").click()
    self.driver.find_element(By.ID, "password").send_keys("Test@123")
    self.driver.find_element(By.CSS_SELECTOR, ".waves-button-input").click()
    self.driver.find_element(By.CSS_SELECTOR, ".show-on-large").click()
    self.driver.find_element(By.CSS_SELECTOR, ".no-padding:nth-child(5) > .waves-effect").click()

```

TEST CASE - 3

```

# Generated by Selenium IDE
import pytest
import time
import json
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.action_chains import ActionChains
from selenium.webdriver.support import expected_conditions
from selenium.webdriver.support.wait import WebDriverWait
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.common.desired_capabilities import DesiredCapabilities

class TestLeaveadding():
    def setup_method(self, method):
        self.driver = webdriver.Chrome()
        self.vars = {}

    def teardown_method(self, method):
        self.driver.quit()

    def test_leaveadding(self):
        self.driver.get("http://localhost/flms/admin/")
        self.driver.set_window_size(649, 720)
        self.driver.find_element(By.ID, "username").click()
        self.driver.find_element(By.ID, "username").send_keys("admin")

```

```

self.driver.find_element(By.ID, "password").click()
self.driver.find_element(By.ID, "password").send_keys("Test@12345")
self.driver.find_element(By.CSS_SELECTOR, ".waves-button-input").click()
self.driver.find_element(By.CSS_SELECTOR, ".material-design-hamburger__icon").click()
    self.driver.find_element(By.CSS_SELECTOR, ".no-padding:nth-child(4) > .collapsible-header").click()
    self.driver.find_element(By.LINK_TEXT, "Add Leave Type").click()
    self.driver.find_element(By.ID, "leavetype").click()
    self.driver.find_element(By.ID, "leavetype").send_keys("restricted leave")
    self.driver.find_element(By.ID, "textarea1").click()
    self.driver.find_element(By.ID, "textarea1").click()
    self.driver.find_element(By.ID, "textarea1").send_keys("leave with restrictions only")
    self.driver.find_element(By.NAME, "add").click()
    self.driver.find_element(By.CSS_SELECTOR, ".material-design-hamburger__icon").click()
        self.driver.find_element(By.CSS_SELECTOR, ".no-padding:nth-child(4) > .collapsible-header").click()
        self.driver.find_element(By.LINK_TEXT, "Manage Leave Type").click()
        self.driver.find_element(By.CSS_SELECTOR, ".even:nth-child(6) > td:nth-child(2)").click()
element = self.driver.find_element(By.CSS_SELECTOR, ".even:nth-child(6) > td:nth-child(2)")
actions = ActionChains(self.driver)
actions.double_click(element).perform()

```

TEST CASE - 4:

```

# Generated by Selenium IDE
import pytest
import time
import json
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.action_chains import ActionChains
from selenium.webdriver.support import expected_conditions
from selenium.webdriver.support.wait import WebDriverWait
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.common.desired_capabilities import DesiredCapabilities

class TestNavigationchecking():
    def setup_method(self, method):
        self.driver = webdriver.Chrome()
        self.vars = {}

    def teardown_method(self, method):
        self.driver.quit()

```

```

def test_navigationchecking(self):
    self.driver.get("http://localhost/flms/fac_login.php")
    self.driver.set_window_size(649, 720)
    self.driver.find_element(By.ID, "username").click()
    self.driver.find_element(By.ID, "username").send_keys("vaishnavi@123")
    self.driver.find_element(By.ID, "password").click()
    self.driver.find_element(By.ID, "password").send_keys("Test@123")
    self.driver.find_element(By.ID, "username").click()
    self.driver.find_element(By.ID, "username").send_keys("vaishnavi@gmail.com")
    self.driver.find_element(By.CSS_SELECTOR, ".waves-button-input").click()
    self.driver.find_element(By.CSS_SELECTOR, ".show-on-large").click()
    self.driver.find_element(By.LINK_TEXT, "My Profile").click()
    self.driver.find_element(By.ID, "address").click()
    element = self.driver.find_element(By.ID, "update")
    actions = ActionChains(self.driver)
    actions.move_to_element(element).perform()
    self.driver.find_element(By.ID, "address").send_keys("Sri Nagar")
    self.driver.find_element(By.ID, "update").click()
    self.driver.find_element(By.CSS_SELECTOR, ".show-on-large").click()
    self.driver.find_element(By.CSS_SELECTOR, ".collapsible-header").click()
    self.driver.find_element(By.LINK_TEXT, "Apply Leave").click()
    self.driver.find_element(By.CSS_SELECTOR, ".show-on-large").click()
    self.driver.find_element(By.LINK_TEXT, "My Qualification").click()
    self.driver.find_element(By.ID, "qualification").click()
    element = self.driver.find_element(By.ID, "update")
    actions = ActionChains(self.driver)
    actions.move_to_element(element).perform()
    self.driver.find_element(By.ID, "qualification").send_keys("PHD")
    self.driver.find_element(By.ID, "update").click()
    element = self.driver.find_element(By.CSS_SELECTOR, "body")
    actions = ActionChains(self.driver)
    actions.move_to_element(element, 0, 0).perform()
    element = self.driver.find_element(By.ID, "update")
    actions = ActionChains(self.driver)
    actions.move_to_element(element).perform()
    self.driver.find_element(By.ID, "experience").send_keys("3 Years")
    self.driver.find_element(By.ID, "update").click()

```

TEST CASE - 5:

```
# Generated by Selenium IDE
```

```
import pytest
```

```

import time
import json
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.action_chains import ActionChains
from selenium.webdriver.support import expected_conditions
from selenium.webdriver.support.wait import WebDriverWait
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.common.desired_capabilities import DesiredCapabilities

class TestAdminlogintest():

    def setup_method(self, method):
        self.driver = webdriver.Chrome()
        self.vars = {}

    def teardown_method(self, method):
        self.driver.quit()

    def test_adminlogintest(self):
        self.driver.get("http://localhost/flms/admin/")
        self.driver.set_window_size(649, 720)
        self.driver.find_element(By.ID, "username").click()
        self.driver.find_element(By.ID, "username").send_keys("Admin")
        self.driver.find_element(By.ID, "password").click()
        element = self.driver.find_element(By.CSS_SELECTOR, ".waves-button-input")
        actions = ActionChains(self.driver)
        actions.move_to_element(element).perform()
        self.driver.find_element(By.ID, "password").send_keys("Test@1234567845")
        self.driver.find_element(By.CSS_SELECTOR, ".waves-button-input").click()
        self.driver.find_element(By.CSS_SELECTOR, ".material-design-hamburger__icon").click()
        self.driver.find_element(By.CSS_SELECTOR, ".no-padding:nth-child(7) > .waves-effect").click()

```

Conclusion:

In this project we have implemented a faculty leave management system. We have understood many technical technologies and the way a software is built from scratch in an

agile based approach. The final outcome of this report is a fully functional and user-friendly application for the process of faculty.