

Chapter 1

INTRODUCTION

1.1 Purpose

This software requirement specification (SRS) document describes the overall functional requirements of Faculty Portal. Intended to serve Faculties for reducing their effort for filling up leave and subject preferences.

1.2 Scope

FACULTY PORTAL is intended to serve the purpose of helping faculties for automatizing Subject Preferences and Leave Management. In Subject preference module, faculties can prefer subject according to current subject enabled by admin (of this module) and admin is provided with extra facilities of enabling and disabling subjects and current semester. In leave management module employees are supposed to apply for the respective leaves and allocate other faculties during their leave period. Faculties can see their leave history. HOD is provided extra functionality of looking at all other faculties leave history, leave is sanctioned only if HOD approves it.

In addition to that we also have functionality to add user (faculty) from user module, that also allow to Resetting passwords.

More ever we can take backup of data per year as and when needed.

1.3 Definitions, Acronyms, and Abbreviations.

SRS is used as SOFTWARE REQUIREMENT SPECIFICATION.

FP is used as FACULTY PORTAL

IEEE is used as Institute of Electrical and Electronic Engineers

1.4 References

www.stackoverflow.com

www.quora.com

docs.oracle.com/javase

1.5 Overview

The SRS contains overall description in next section with the product perspective in that hardware and software interfaces, product functions, user characteristics, constraints, assumptions and dependencies and apportioning of requirements and also contains specific requirements, external interfaces and design constraints, software system attributes, organizing specific requirements.

Chapter 2

The General Description

2.1 Product Perspective

FACULTY PORTAL is desktop-based applications which will automatize the process of subject preferences and leave application of the faculties.

2.1.1 System Interfaces

This system does not provide system interfaces.

2.1.2 Hardware Interfaces

This system does not provide Hardware interfaces.

2.1.3 Software Interfaces

Operating System: Microsoft Windows 8.1

Application Software: Front End Tool-Java

Server-Apache Tomcat server

Database-MySQL (XAMPP Software)

Other Tool-Hibernate ORM Framework

-jasypt-1.9.0.jar (For password encryption)

2.1.4 Memory Constraints

2GB -Ram

100 GB -Hard Disk

2.1.5 Operations

User Mode-The user mode of this system will allow users to apply for leave and enter subject preferences.

Admin Mode-The admin will be able to enable or disable subject preferences list and edit the subject preferences list and also can sanction the leave, can take backups, can add user and can apply password reset for single of for all user.

2.1.6 Site Adaptation Requirements

This system needs a web browser installed on the client device, supported browsers are Chrome, Firefox, etc.

2.2 Product Function

System provides facility to select subject preference and apply for leave.

System provides Facility to display leave history and arrangement of work load during leave period.

System provides facility to administrator for managing the leave Information and also managing the subjects or editing the subjects.

2.3 User Characteristics

User must have knowledge about software and task to be performed.

2.4 Software Requirements Specification

1. System Security aspects

1.1. System login

I/P : Username and Password

O/P: Success message on correct username and password

1.2. System Filter to check security according to user type, if user is normal user then not allow then get enter into privilege areas of admin section.

I/P : Page url to access

O/P: Validation confirmation

2. System should provide facility to prefer subjects from different subject preferences.

2.1. System should provide facility to display subjects according to semester.

I/P : Semester type

O/P: Subjects List

2.2. System should provide facility to prefer different subjects according to current semester.

I/P : Selected subjects

O/P: Successful message

2.3. System should provide facility to View subject preferences.

I/P : Selected subjects

O/P: Successful message of selecting subjects

2.4. System should provide facility to enable or disable subject preferences.

I/P : System should provide facility to enable or disable subject preferences.

O/P: Modification done successfully message

2.5. System should provide facility to view offered subjects.

I/P : Semester type

O/P: List of subjects

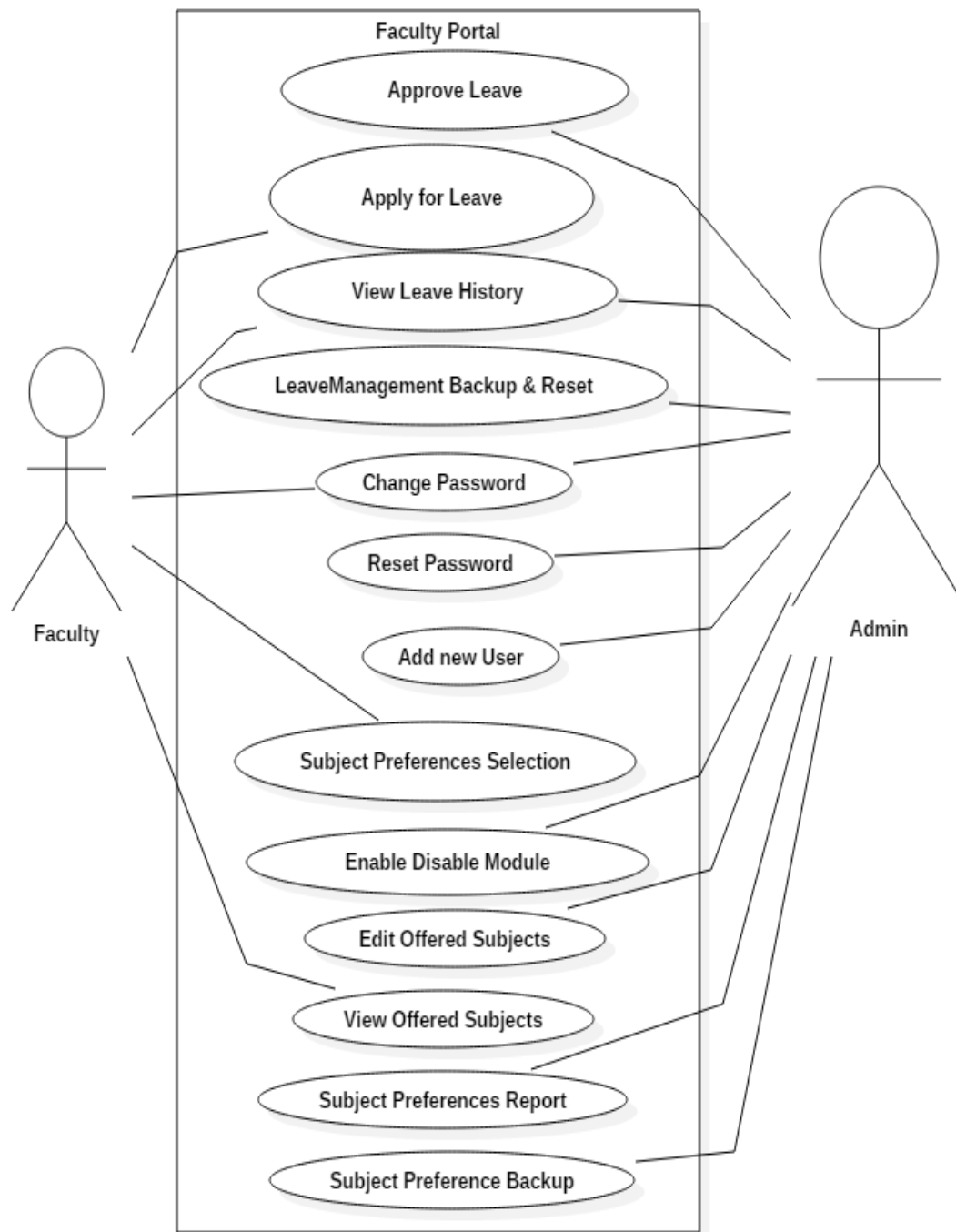
2.6. System should provide facility to edit offered subjects.

- I/P: Enable/disable Semester
O/P: Modification done successfully
- 2.7. System should provide facility to print subject preference list.
- 2.7.1. System should provide facility to print subject wise list.
I/P: Option subject wise
O/P: Subject wise list
- 2.7.2. System should provide facility to print slot wise list.
I/P: Option slot wise
O/P: Slot wise list
- 2.7.3. System should provide facility to print Faculty wise list.
I/P: Option faculty wise
O/P: Faculty wise list
3. System should provide facility to apply for leave according to their requirement.
- 3.1. System should provide facility to apply for leave.
I/P: Leave details
O/P: Successful leave message
- 3.2. System should provide facility to manage pending leaves.
I/P: Status of pending leaves to be settled
O/P: Status of leaves accordingly
- 3.3. System should provide facility Display Leave History.
I/P: Request
O/P: Leave history of faculties
4. System should provide facility to change password.
- 4.1. System should provide facility to get old password before asking for new password.
I/P: Old password and new password
O/P: Password changed messaged
5. System should provide facility to add new User.
- 5.1. System should provide facility to add new user, this functionality is open to only admin.
I/P: Details of User
O/P: Result of operation
6. System should provide facility to reset password.
- 6.1. System should provide facility to reset password for all faculty members, this functionality is open to only admin.
I/P: New password (Old password not required)
O/P: Password changed messaged
- 6.2. System should provide facility to reset password for single faculty member, this functionality is open to only admin.
I/P: Username, New password (Old password not required)
O/P: Password changed messaged

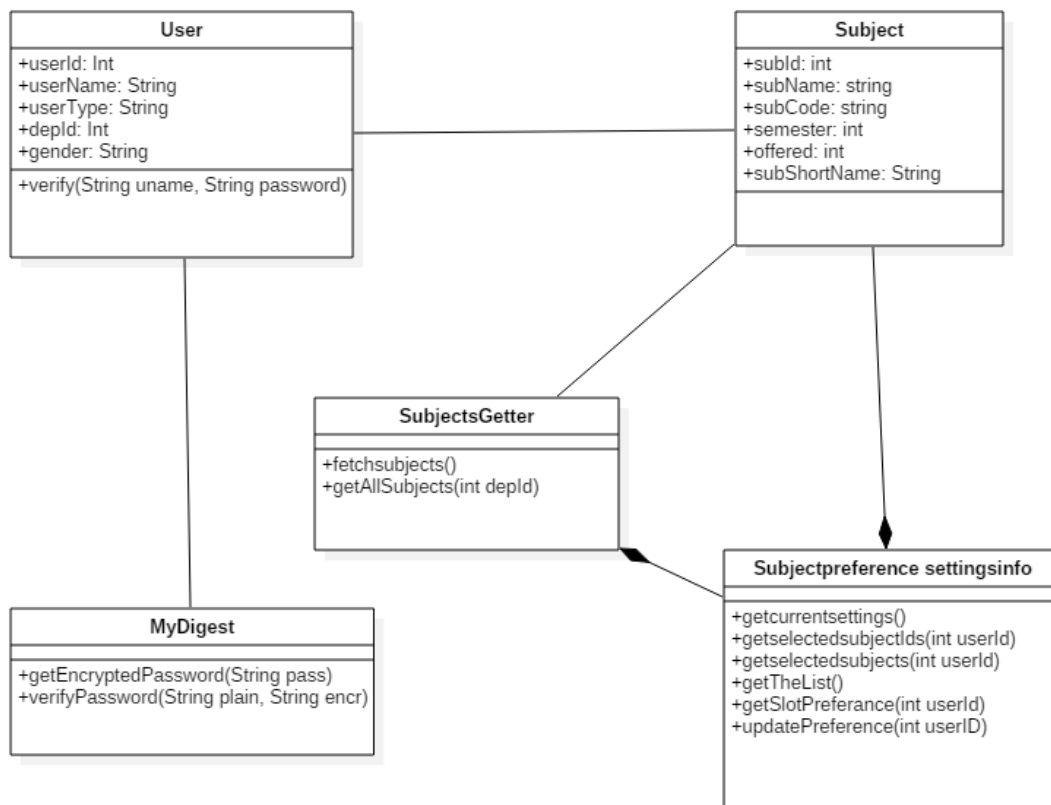
Chapter 3

Design

3.1 Use Case Diagram

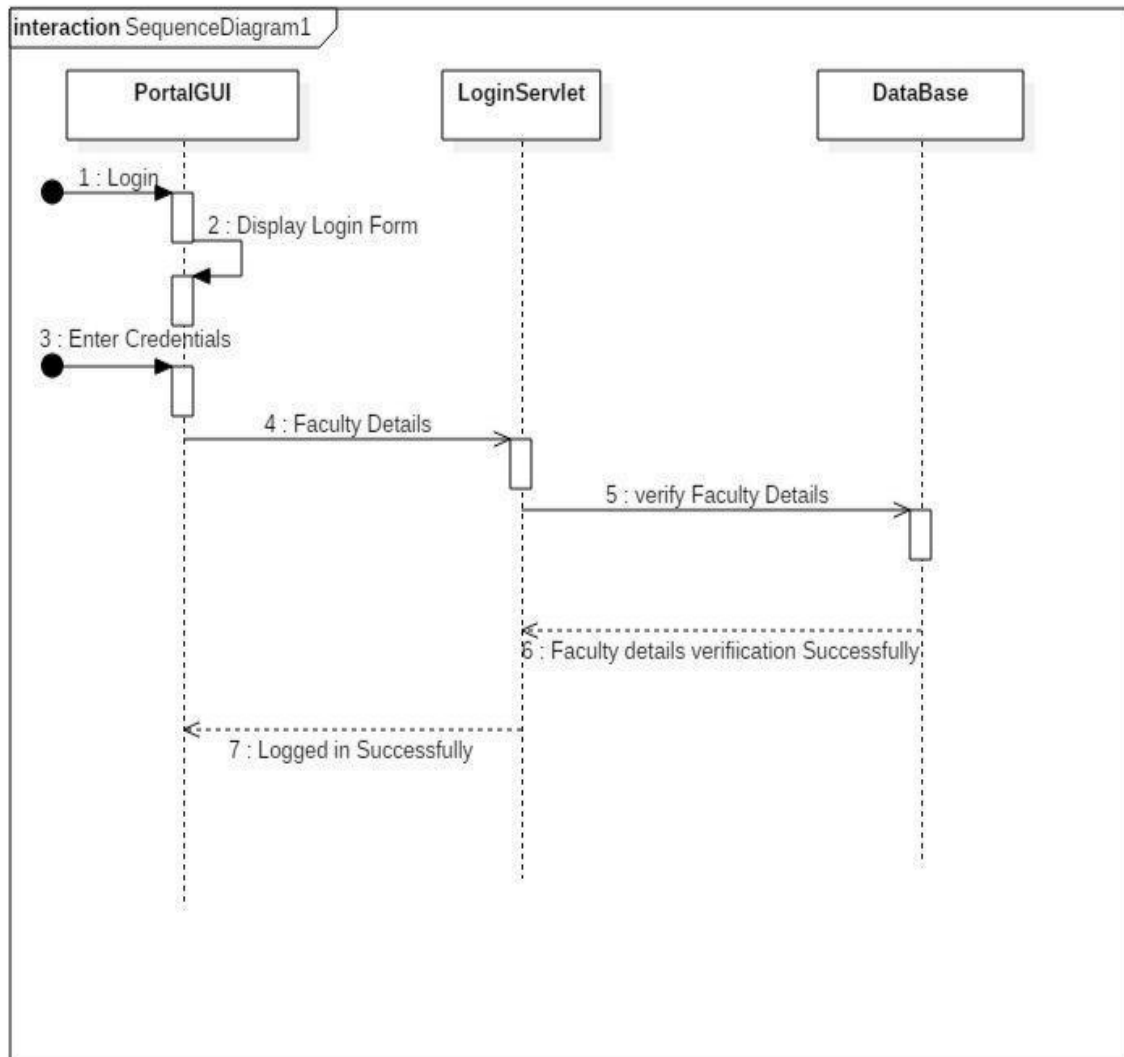


3.2 Class Diagrams

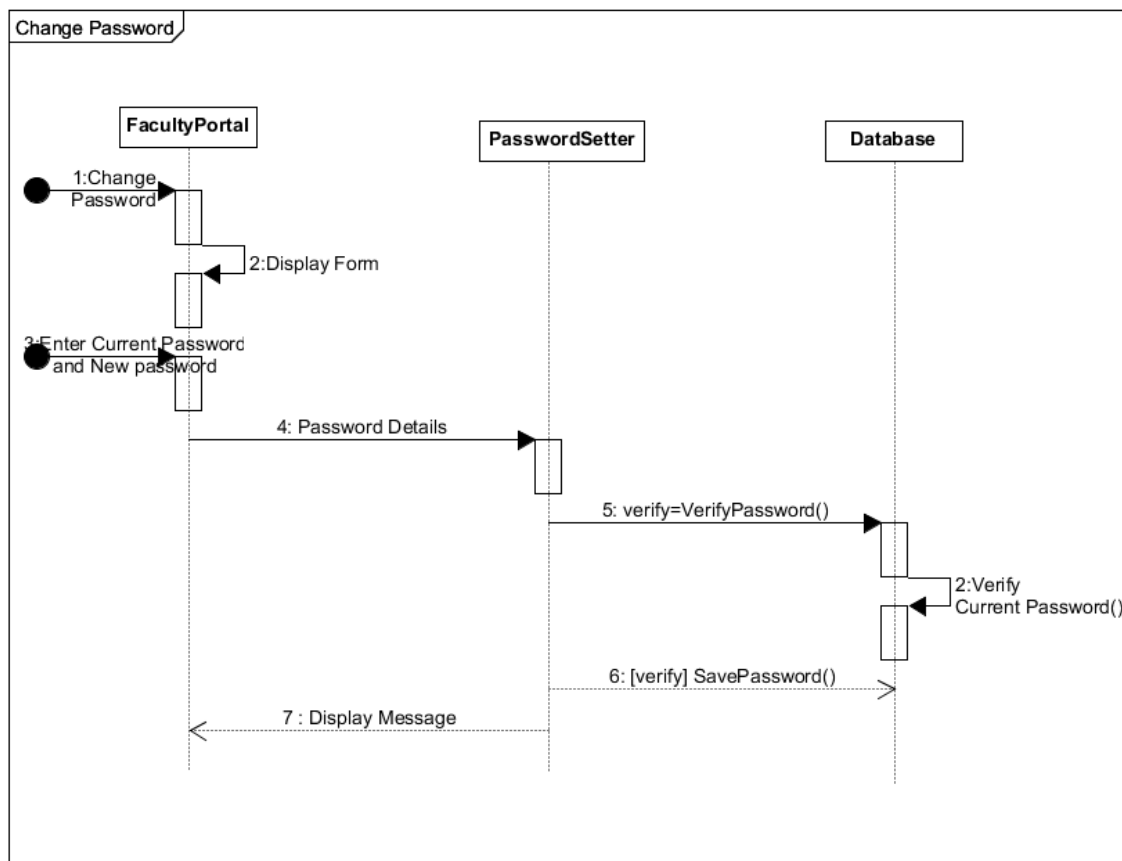


Note :- As whole system is working with database that classes are not included here, instead E-R diagram for database tables are available in section 3.6.

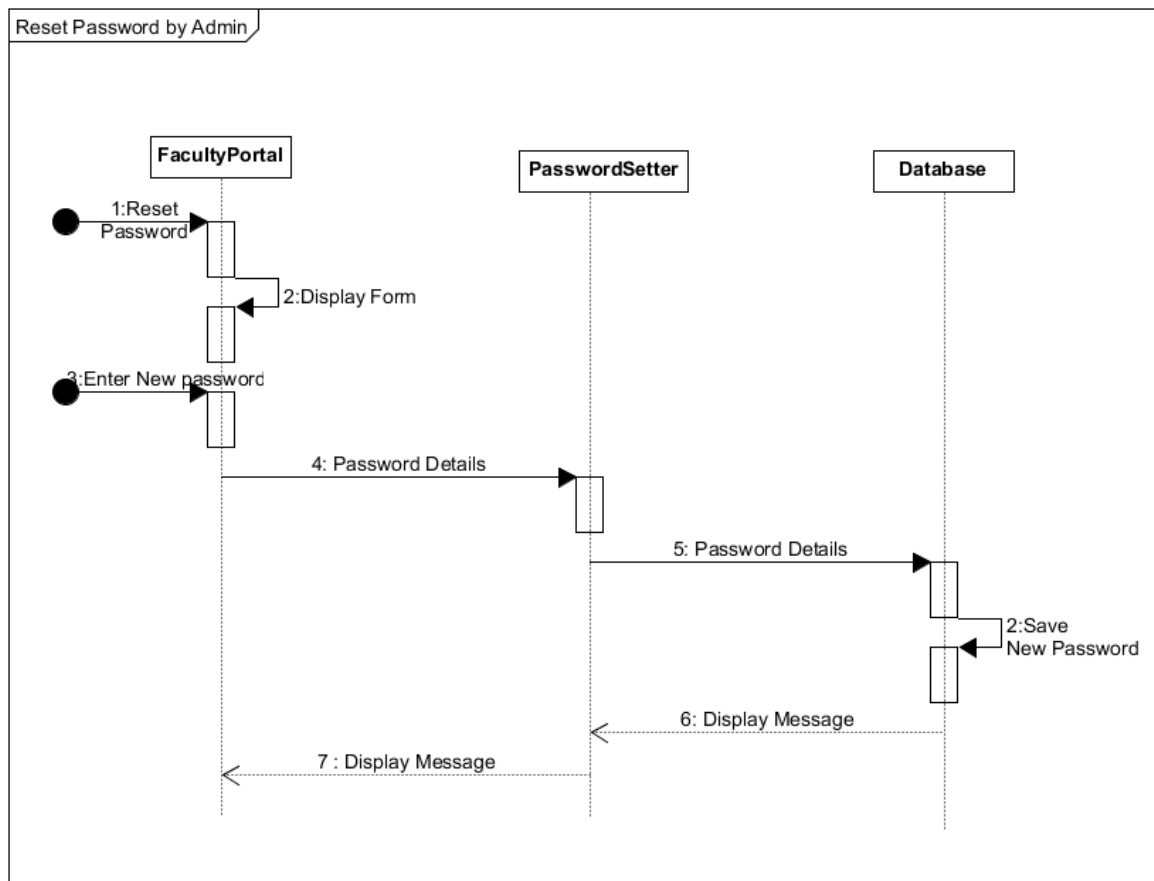
3.3 Sequence Diagram



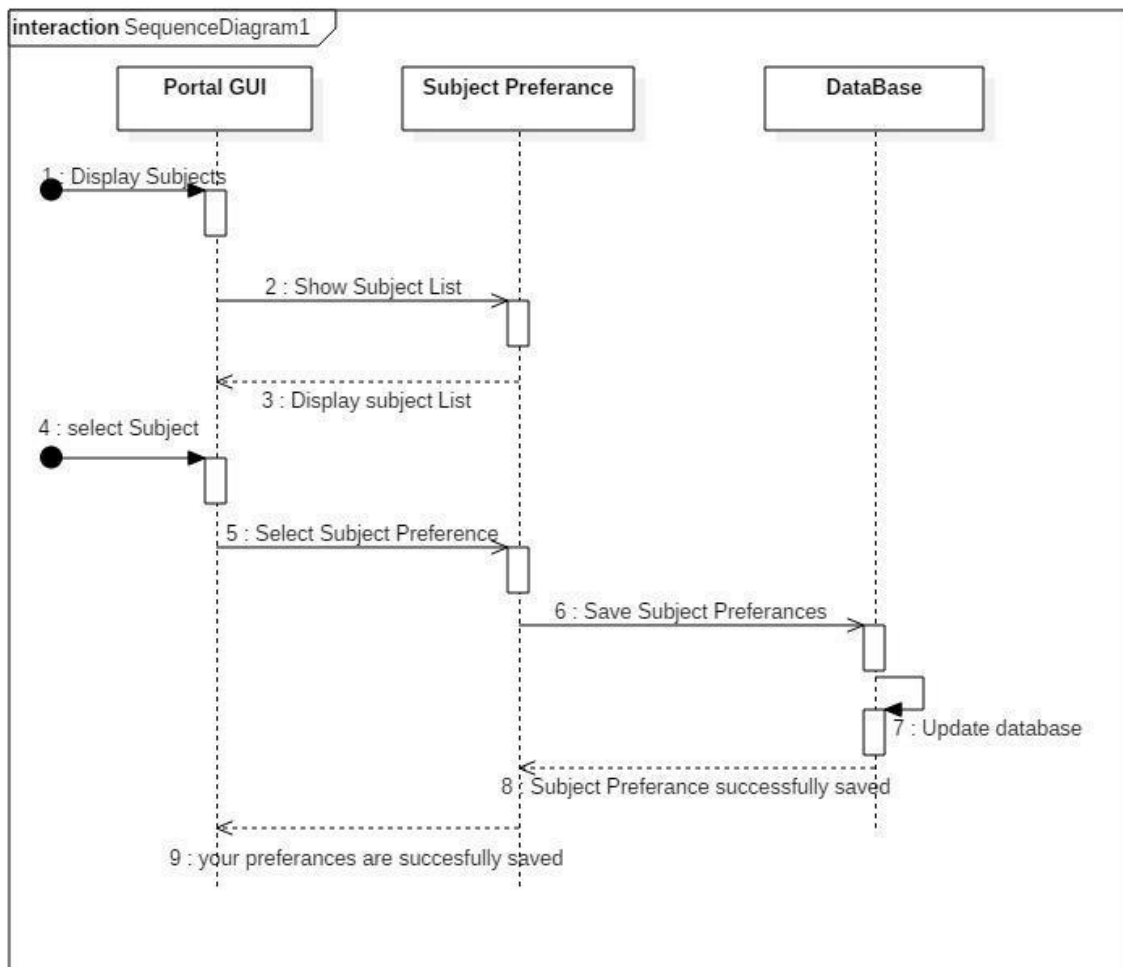
Login



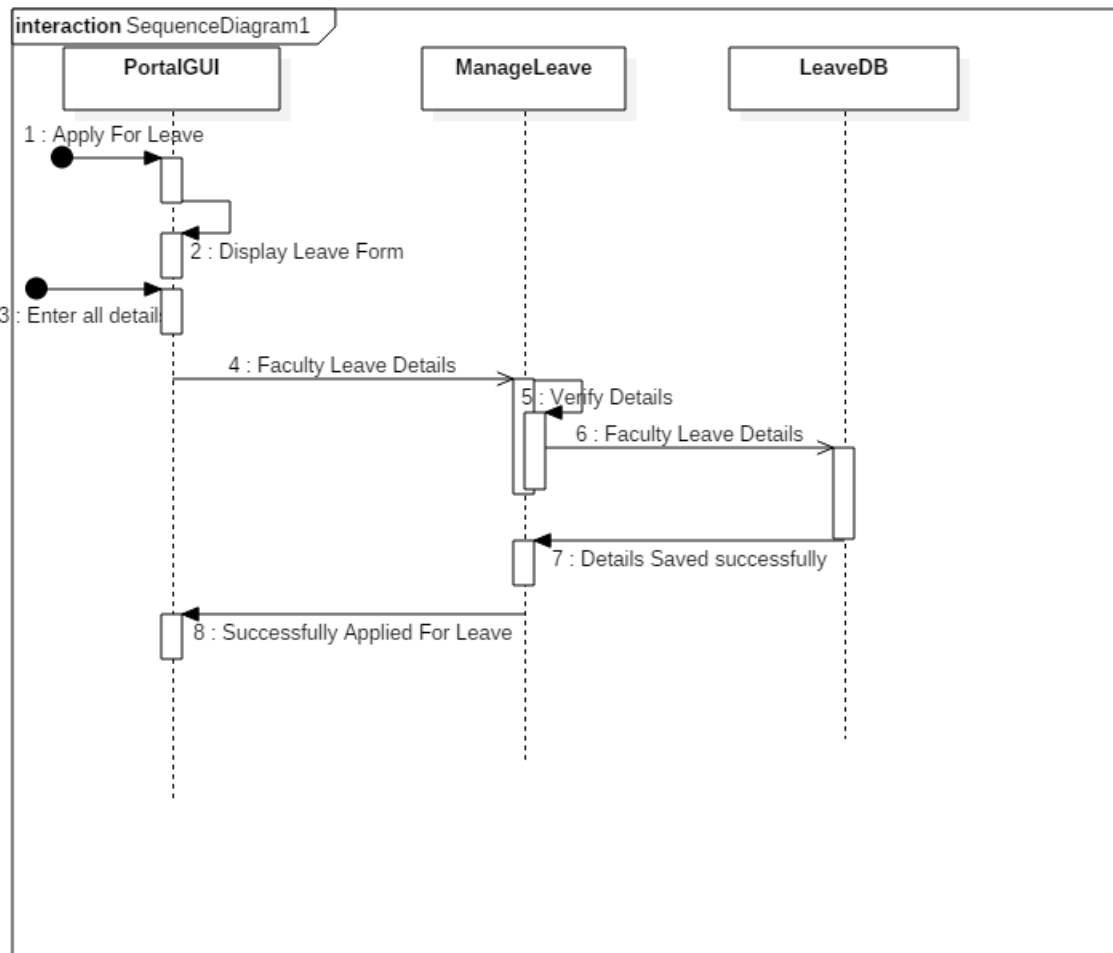
Change Password



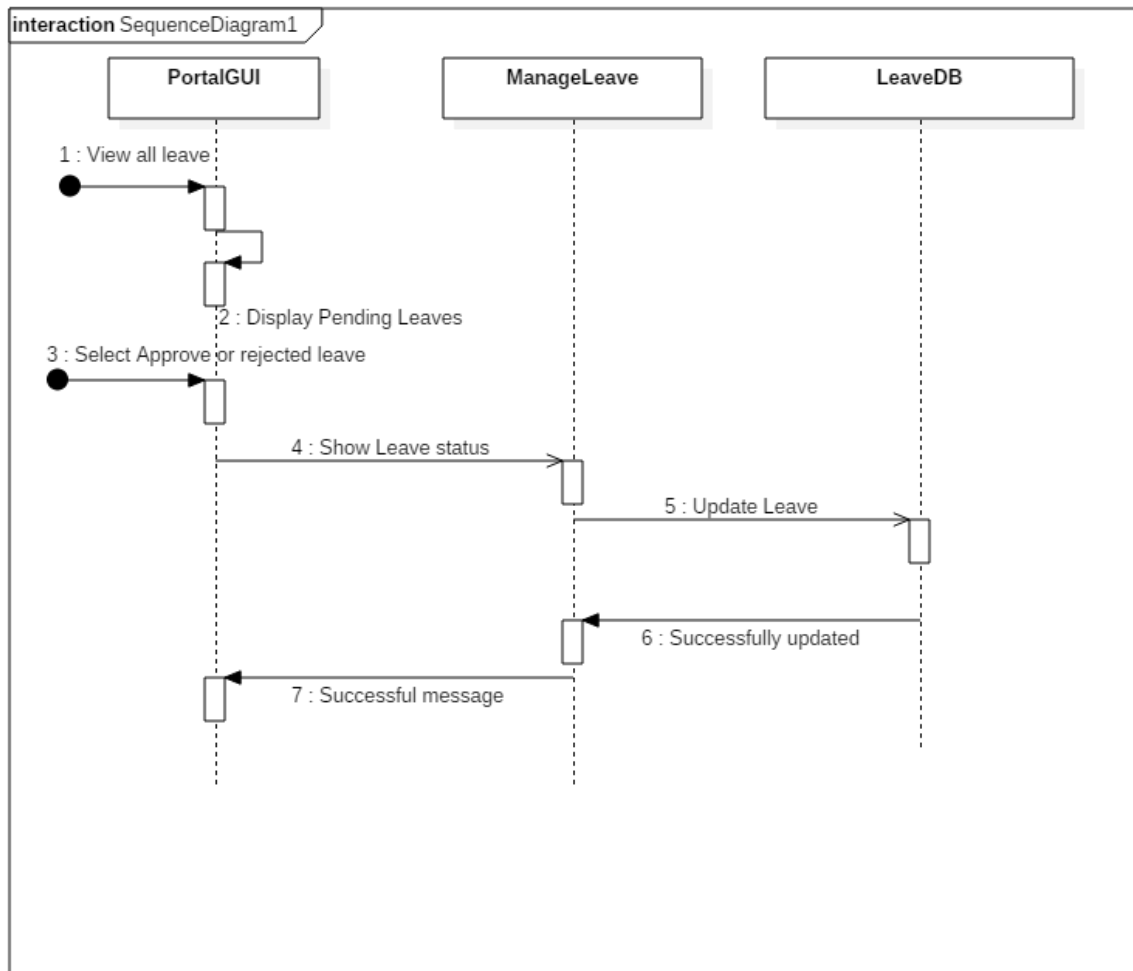
Reset Password (Admin)



Subject Preferences – Give Subject Preference

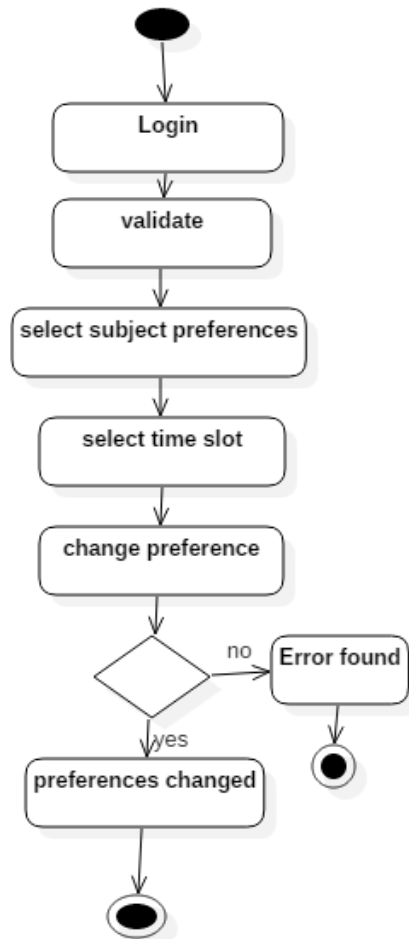


Leave Management – Apply for leave

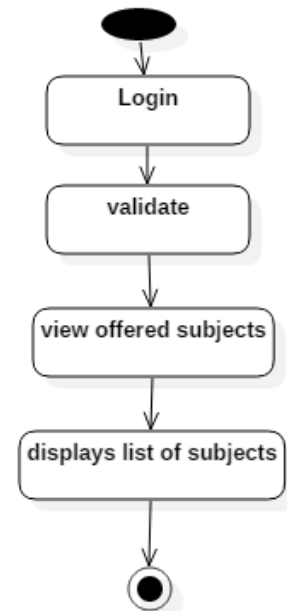


Leave Management – Approve/Reject Leave (Admin)

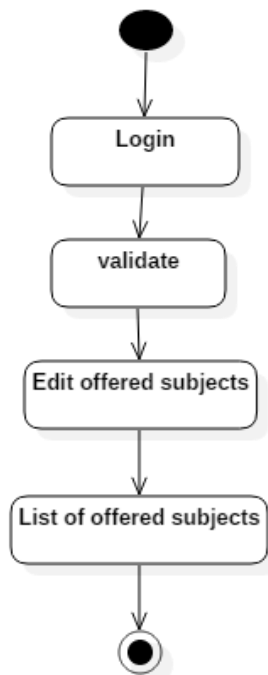
3.4 Activity Diagram



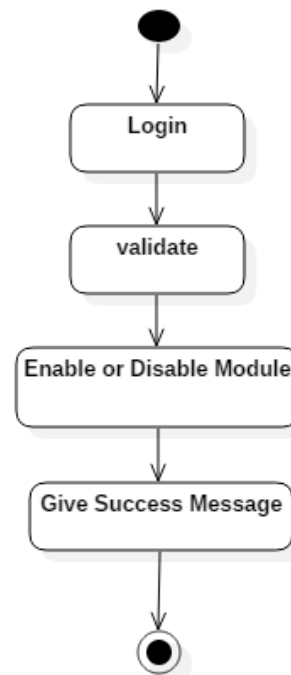
Edit Subject Preferences



View List of Offered Subject

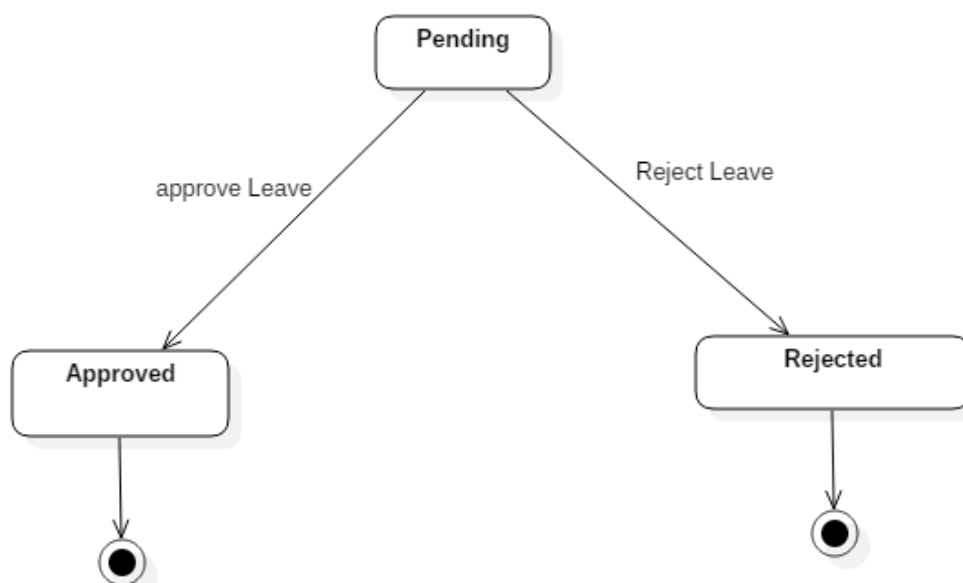


Edit Offered Subject



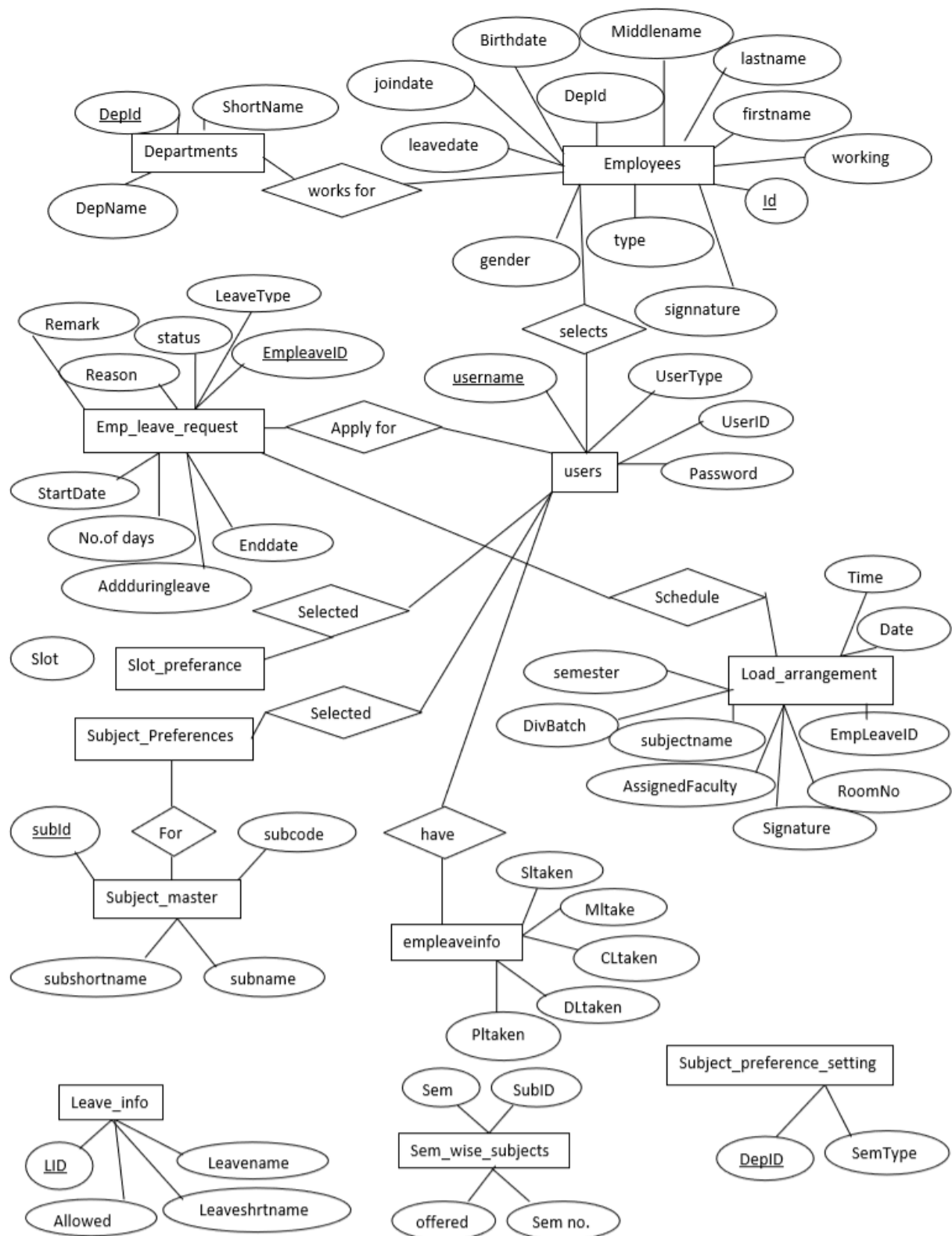
Enable or Disable Subject Preferences Module

3.5 State Diagram





EmployeeLeaveRequest State

3.6 ER-Diagram




3.7 Data Dictionary



users

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	UserName 	varchar(10)			No	None	
2	Password	varchar(64)			No	None	
3	UserID 	int(11)			No	None	
4	UserType	varchar(15)			No	None	
5	Initials	varchar(3)			No	None	


department

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	DepID 	int(11)			No	None	AUTO_INCREMENT
2	DepName	varchar(30)			No	None	
3	ShortName	varchar(3)			Yes	NULL	


employees

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	ID 	int(11)			No	None	AUTO_INCREMENT
2	FirstName	varchar(15)			No	None	
3	MiddleName	varchar(15)			Yes	NULL	
4	LastName	varchar(15)			Yes	NULL	
5	BirthDate	date			Yes	NULL	
6	JoinDate	date			Yes	NULL	
7	LeaveDate	date			Yes	NULL	
8	Working	int(11)			Yes	NULL	
9	Gender	enum('M', 'F')			Yes	NULL	
10	DepID 	int(11)			No	None	
11	Designation	varchar(50)			No	None	
12	Category	varchar(30)			No	None	
13	Type	varchar(30)			No	None	
14	Signature	longblob			Yes	NULL	
15	Salutation	varchar(10)			Yes	Prof.	

subject_master

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	SubID 	int(11)			No	None	AUTO_INCREMENT
2	SubName	varchar(50)			No	None	
3	SubCode	varchar(10)			Yes	NULL	
4	SubShortName	varchar(15)			No	None	


subject_preference_setting

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	DepID 	int(11)			No	None	
2	SemType	varchar(5)			No	None	



subject_preferences

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	UserID 	int(11)			No	None	
2	SubID 	int(11)			No	None	


slot_preferences

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	UserID 	int(11)			No	None	
2	Slot	varchar(10)			No	None	


semester_wise_subjects

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	Semester 	varchar(10)			No	None	
2	SubID 	int(11)			No	None	
3	Offered	int(11)			Yes	NULL	
4	SemNo	int(11)			Yes	NULL	


leave_info

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	LID 	int(5)			No	None	AUTO_INCREMENT
2	LeaveName	varchar(20)			No	None	
3	LeaveShortName	varchar(10)			No	None	
4	Allowed	int(5)			Yes	NULL	




emp_leave_info

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	UserID 	int(11)			No	None	
2	SLTaken	float			No	None	
3	CLTaken	float			No	None	
4	DLTaken	float			No	None	
5	PLTaken	float			No	-1	
6	MLTaken	float			Yes	-1	

emp_leave_request

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	EmpLeaveID 	int(11)			No	None	AUTO_INCREMENT
2	UserID	int(11)			No	None	
3	LeaveType	int(5)			No	None	
4	ApplyDate	date			No	None	
5	StartDate	date			No	None	
6	EndDate	date			No	None	
7	ApproveDate	date			Yes	NULL	
8	NoOfDays	float			No	None	
9	Reason	varchar(50)			No	None	
10	AddressDuringLeave	varchar(50)			No	None	
11	Remark	varchar(50)			Yes	NULL	
12	HodRemark	varchar(50)			Yes	NULL	
13	Status	varchar(20)			No	pending	

load_arrangement

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	EmpLeaveID 	int(11)			No	None	
2	Date 	date			No	0000-00-00	
3	Time 	varchar(10)			No	None	
4	Semester	int(11)			Yes	NULL	
5	DivBatch	varchar(5)			Yes	NULL	
6	RoomNo	int(11)			Yes	NULL	
7	SubjectName	varchar(50)			Yes	NULL	
8	AssignedFaculty	int(11)			Yes	NULL	
9	Status	varchar(20)			No	pending	
10	ApproveDate	date			Yes	NULL	

Chapter 4

Testing

4.1 Testing Plan

The testing is a technique that is going to be used in the project is white box testing as well as black box testing.

4.2 Testing Strategy

The development process repeats this testing sub process a number of times for the following phases.

- Unit Testing
- Integration Testing

Unit Testing tests a unit of code after coding of that unit is completed. Integration Testing tests whether the previous programs that make up a system, interface with each other as desired. System testing ensures that the system meets its stated design specifications. Acceptance testing is testing by users to ascertain whether the system developed is a correct implementation of the software requirements specification. Testing is carried out in such a hierarchical manner so that each component is correct and the assembly/combination of component is correct. Merely testing a whole system at end would most likely throw up errors in component that would be very costly to trace and fix. I have performed both Unit Testing and System Testing to detect and fix errors.

4.3 Testing Methods

I have performed Black-box testing as well as White-box testing for this project. Integration testing and System testing is also performed in Faculty Portal project.

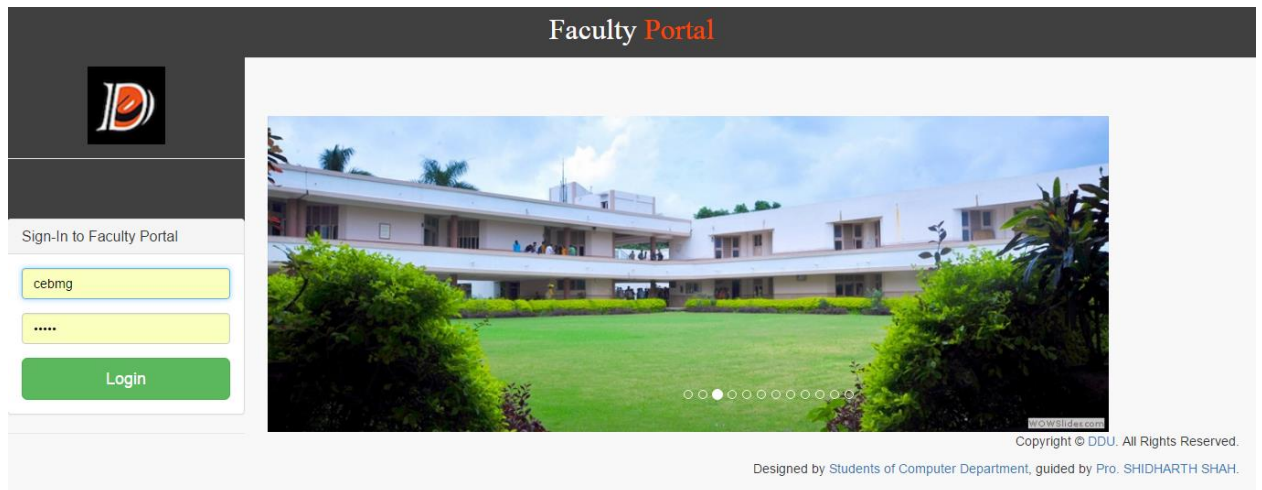
4.4 Test Cases

Testcase ID	Test Module	Test Scenario	Test Data	Expected Result	Decision
T01	Login	Login	Username and password	Successful login	Pass
T02	Subject preferences	Select subject preference	Subjects list	Subject selected successful	Pass
T03	Subject preferences	Enable/Disable Module	Subjects list	Successful enabled/disabled	Pass
T04	Subject preferences	View Offered Subjects	Subjects list	Sem wise list of subjects	Pass
T05	Subject preferences	Print Subjects preferences list	Subject wise / Faculty wise/ Slot wise list	Printed list	Pass
T06	Subject preferences	Edit offered subjects	Subjects list	Successfully Edited subjects	Pass
T07	Change password	Enter current and old password	Password	Successful changed password	Pass
T08	Leave Management	Apply for leave	Leave details	Successful application	Pass
T09	Leave Management	Show my leave	List of leaves	List of faulty leaves	Pass
T10	Leave Management	View all Leave	List of pending or approved/ rejected leaves	List of leaves taken	Pass
T11	Leave Management	Leave History	Leave Details	List of leaves as per constraints	Pass
T12	Leave Management	Reset leave	-	Successful resetting of leave	Pass
T13	Logout	logout	-	Successful logout	Pass
T14	Add User	Add user	User Details	User added successfully	Pass
T15	Reset Password	For single User	Username and new password	Password changed for particular user	Pass
T16	Reset Password	For all	New Password	Password changed for all user	Pass

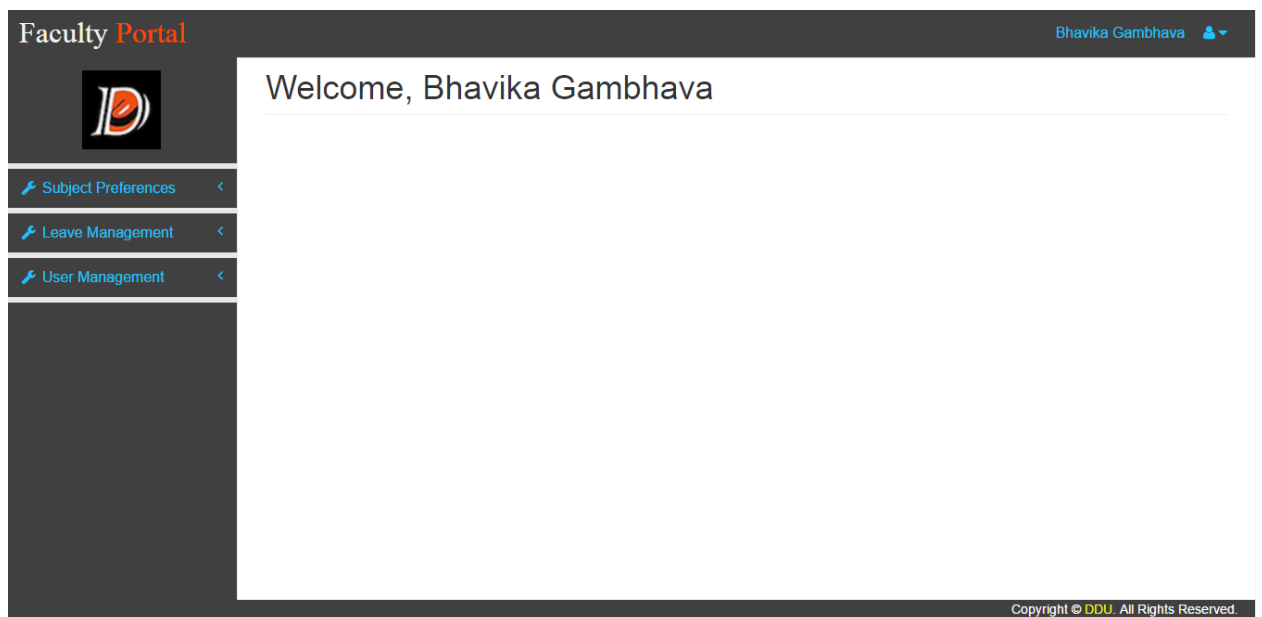
Chapter 5

Screenshots

Login Page



Home Page



Note : In this home page given navigation is for Admin, So all navigation including User Module are active.

Edit Subject Preferences

Faculty Portal

Subject Preferences
Edit Your Subject Preferences
View Offered Subjects
Leave Management
User Management

B.Tech. 2
☐ C Programming II
☐ Electronic Workshop

B.Tech. 4
☐ Design and Analysis of Algorithms
☒ Computer System Architecture
☐ Computer Peripherals
☒ Discrete Mathematics
☐ Java Technologies

B.Tech. 6
☒ Theory of Automata & Formal Languages
☐ Service Oriented Architecture
☐ Object Oriented Software Engineering
☐ Computer Networks
☒ Advanced Computer Architecture
☐ Network & Information Security

M.Tech. 2
☐ Mobile Communication & Computing

Faculty Portal

Subject Preferences
Edit Your Subject Preferences
View Offered Subjects
Leave Management
User Management

B.Tech. 6
☒ Theory of Automata & Formal Languages
☐ Service Oriented Architecture
☐ Object Oriented Software Engineering
☐ Computer Networks
☒ Advanced Computer Architecture
☐ Network & Information Security

M.Tech. 2
☐ Mobile Communication & Computing
☐ Distributed Computing
☒ Design & Analysis of Algorithms (M.Tech.)
☐ Data Warehousing & Data Mining
☐ Soft Computing

Preferred Time Slot
☒ Morning
☐ Noon
☐ Any

Confirm

Copyright © DDU. All Rights Reserved.
Designed by Students of Computer Department, guided by Pro. SHIDHARTH SHAH.

View Offered Subjects

Faculty Portal

Subject Preferences
Edit Your Subject Preferences
View Offered Subjects
Leave Management
User Management

Offered Subjects

☒ Odd
☐ Even

View

Copyright © DDU. All Rights Reserved.
Designed by Students of Computer Department, guided by Pro. SHIDHARTH SHAH.

The screenshot shows the Faculty Portal interface. On the left is a dark sidebar with the 'Faculty Portal' logo and navigation links: 'Subject Preferences', 'Leave Management', and 'User Management'. The main content area lists subjects for various programs:

- B.Tech. 1**
Elements of Linux OS & C Programming I
- B.Tech. 3**
Data Structures & Algorithms
Object Oriented programming with Java
Digital & Analog Communication Systems
Design of Digital Circuits
- B.Tech. 5**
Web Development in .Net
Software Engineering
Database Systems
Operating Systems
Microprocessor Fundamentals & Prog.
- B.Tech. 7**
Artificial Intelligence
Language Processor
Advanced Computer Networks
Image Processing
Knowledge Discovery
Mobile Application Development
- M.Tech. 1**
Advanced Compiler Techniques
Advanced Computer Networks
Object Oriented Analysis & Design
Digital Image Processing
OS Design and Implementation

The top right of the page shows the user 'Bhavika Gambhava' with a profile icon.

Enable / Disable Subject Preferences Module (Admin)

This screenshot shows the 'Enable-Disable Subject-Preferences Module' page. The sidebar is identical to the previous screenshot. The main content area has the title 'Enable-Disable Subject-Preferences Module' and three radio button options:

- ☐ Disable Module
- ☒ Enable with ODD semester
- ☐ Enable with EVEN semester

Below these options is a blue 'Set' button. The sidebar on the left includes additional links under 'Subject Preferences': 'Edit Your Subject Preferences', 'View Offered Subjects', 'Edit Offered Subject', 'Enable/Disable Preferences' (which is highlighted), 'Print Subject Preferences List', and 'Take Backup'. The footer contains copyright information: 'Copyright © DDU. All Rights Reserved. Designed by Students of Computer Department, guided by Pro. SHIDHARTH SHAH.'

This screenshot shows the same 'Enable-Disable Subject-Preferences Module' page, but with a white 'Message' dialog box overlaid in the center. The message reads: 'Preference Setting Apply Successful...'. The dialog box has a close button in the top right corner. The background page content is dimmed. The sidebar and footer are the same as in the previous screenshot.

Print Subject Preferences List (Admin)

Faculty Portal

Subject Preferences
Edit Your Subject Preferences
View Offered Subjects
Edit Offered Subject
Enable/Disable Preferences
Print Subject Preferences List
Take Backup
Leave Management

Bhavika Gambhava

All Preferences

☐ Subject Wise
☐ Faculty Wise
☒ Slot Wise

View

Copyright © DDU. All Rights Reserved.
Designed by Students of Computer Department, guided by Pro. SHIDHARTH SHAH.

Faculty Portal

Subject Preferences
Leave Management

Bhavika Gambhava

All Preferences

Subject Preference List (Slot wise)

Prefered Slot	Faculty Names
Any	CKB, BSB, MSB, SPS, NP, TVR, SPM, AAM, NJB, HAP, VND, VSP,
Morning	SSS, BMG, BSS, PBS, APV, PRD,
Noon	PMJ, MTM, AKG, JHB,

Print
Back

Copyright © DDU. All Rights Reserved.
Designed by Students of Computer Department, guided by Pro. SHIDHARTH SHAH.

about:blank

Print
Total: 1 page
Save Cancel

Destination
Save as PDF
Change...

Pages
All
e.g., 1-5, 8, 11-13

Layout
Portrait

Paper size
Letter

Margins
Default

Options
☒ Headers and footers
☐ Background graphics

4/4/2017

Subject Preference List (Slot wise)

Prefered Slot	Faculty Names
Any	CKB, BSB, MSB, SPS, NP, TVR, SPM, AAM, NJB, HAP, VND, VSP,
Morning	SSS, BMG, BSS, PBS, APV, PRD,
Noon	PMJ, MTM, AKG, JHB,

Backup of Subject Preferences Module (Admin)

The screenshot shows the Faculty Portal interface. A modal message box is displayed in the center, titled "Message", with the text "Backup Successful..!!" and a "Close" button. The background shows the portal's sidebar with "Subject Preferences" and "Leave Management" sections. The "Subject Preferences" section is expanded, showing options like "Edit Your Subject Preferences", "View Offered Subjects", "Edit Offered Subject", "Enable/Disable Preferences", "Print Subject Preferences List", and "Take Backup". The "Leave Management" section is also visible. The top right corner shows the user's name "Bhavika Gambhava". The bottom of the page has a copyright notice: "Copyright © DDU. All Rights Reserved. Designed by Students of Computer Department, guided by Pro. SHIDHARTH SHAH."

Apply For Leave


The screenshot shows the "Apply For Leave" form in the Faculty Portal. The form includes the following fields:

- Leave For : Half Casual Leave
- Date :- 05/04/2017
- Reason for leave : marriage ceremony
- Address During Leave : us
- Remark : Important
- Load arrangement : No of slots you want to arrange : 2

A "Submit" button is located below the form. Below the form, there is a table titled "Leave Available Information" showing the following data:

Leave Available Information	
Causal-Leave Available	8.5
Sick-Leave Available	3.0
Privilege-Leave Available	31.0

Faculty Portal




Subject Preferences

Leave Management

User Management

Bhavika Gambhava



Arrangement of work during leave

Sr no.	Date	Semester	Subject	Division/Batch	Room no.	Faculty who will engage Class
1	04/05/2017 1:00 PM	2	CP II	c	29	Mrudang Mehta
2			CSA	d	30	Parag Dave

Submit


04/05/2017 1:00 PM

01 : 00 PM

The screenshot shows the Faculty Portal interface. On the left is a dark sidebar with the 'Faculty Portal' logo and navigation links for 'Subject Preferences' and 'Leave Management'. The main content area is titled 'Show' and contains two radio button options: 'Show All Leave' (selected) and 'Show in Range'. A 'View' button is located below these options. A white modal box with the title 'Message' is centered on the screen, displaying the text 'Your leave request has been successfully submitted..!' and a 'Close' button. The bottom of the page features a footer with copyright information and the designer's name, Pro. SHIDHARTH SHAH.

Show My Leaves

Faculty Portal



- Subject Preferences
- Leave Management
 - Apply For Leave
 - Show My Leave
 - Load-arrangement Requests
 - Pending Leave Requests
 - Leave History
 - Backup & Reset
- User Management


Bhavika Gambhava

Show My Leave

EMP LEAVE ID	LEAVE TYPE	APPLY DATE	FROM	TO	APPROVE DATE	NO OF DAYS	REASON FOR LEAVE	ADDRESS DURING LEAVE	REMARK	HOD REMARK	STATUS
89	CL	2016-03-06	2016-06-05	2016-06-10	2016-04-01	5.0	social	singapore	none		approved
97	PL	2016-03-13	2016-03-27	2016-03-31	2016-04-01	4.0	educational	america	none		approved
108	SL	2016-04-01	2016-04-02	2016-04-04	2016-04-01	2.0	personal	anand	none		approved
109	DL	2016-04-01	2016-04-02	2016-04-04	2016-04-01	2.0	social	ahmedabad	none		approved
115	CL	2016-04-12	2016-04-24	2016-04-26	2016-04-12	2.0	social	nadiad	none		approved
118	CL	2016-05-02	2016-05-04	2016-05-08	2016-05-04	4.0	social	australia	none		approved
136	SL	2016-05-03	2016-05-13	2016-05-16		3.0	social	jamnagar	none		rejected
138	CL	2016-05-04	2016-05-20	2016-05-21	2016-05-05	1.0	social	bhavnagar	none		approved

Load Arrangement Requests From Other Faculties

Faculty Portal



- Subject Preferences
- Leave Management
 - Apply For Leave
 - Show My Leave
 - Load-arrangement Requests
 - Pending Leave Requests
 - Leave History
 - Backup & Reset
- User Management

CK Bhensdadia

Load Arrangement Requests

Faculty Name	Leave Type	Date	Time	Semester	Subject	Division/Batch	Room no.	Approve	Reject
BMG	Casual Leave	Apr 5, 2017	2:03 PM	1	ELCP	c	29	Approve	Reject

Copyright © DDU. All Rights Reserved.

Designed by Students of Computer Department, guided by Pro. SHIDHARTH SHAH.

Pending Leave Requests (Admin)

Faculty Portal

- Subject Preferences
- Leave Management
 - Apply For Leave
 - Show My Leave
 - Load-arrangement Requests
 - Pending Leave Requests
 - Leave History
 - Backup & Reset
- User Management

CK Bhensdadia

Pending Leave Requests

Emp. Leave Id	Faculty Name	Leave Type	Apply Date	Start Date	End Date	No of Days	Reason	Address During Leave	Remark	Approve	Reject
62	SPS	CL	Mar 2, 2016	May 23, 2016	May 24, 2016	1	social	nadiad		Approve	Reject
63	SPS	CL	Mar 2, 2016	May 23, 2016	May 24, 2016	1	social	nadiad		Approve	Reject

Copyright © DDU. All Rights Reserved.
Designed by Students of Computer Department, guided by Pro. SHIDHARTH SHAH.

Leave History For Any Faculty (Admin)

Faculty Portal

- Subject Preferences
- Leave Management
 - Apply For Leave
 - Show My Leave
 - Load-arrangement Requests
 - Pending Leave Requests
 - Leave History
 - Backup & Reset
- User Management

CK Bhensdadia

Show Leave History

Faculty (Initials) : bmg

Get History

Copyright © DDU. All Rights Reserved.
Designed by Students of Computer Department, guided by Pro. SHIDHARTH SHAH.

Faculty Portal

- Subject Preferences
- Leave Management
- User Management

CK Bhensdadia


Show Leave History

Leave History of Faculty : BMG

EMP LEAVE ID	LEAVE TYPE	APPLY DATE	FROM	TO	APPROVE DATE	NO OF DAYS	REASON FOR LEAVE	ADDRESS DURING LEAVE	REMARK	HOD REMARK	STATUS
89	CL	Mar 6, 2016	Jun 5, 2016	Jun 10, 2016	Apr 1, 2016	5	social	singapore	none		approved
97	PL	Mar 13, 2016	Mar 27, 2016	Mar 31, 2016	Apr 1, 2016	4	educational	america	none		approved
108	SL	Apr 1, 2016	Apr 2, 2016	Apr 4, 2016	Apr 1, 2016	2	personal	anand	none		approved
109	DL	Apr 1, 2016	Apr 2, 2016	Apr 4, 2016	Apr 1, 2016	2	social	ahmedabad	none		approved
115	CL	Apr 12, 2016	Apr 24, 2016	Apr 26, 2016	Apr 12, 2016	2	social	nadiad	none		approved
118	CL	May 2, 2016	May 4, 2016	May 8, 2016	May 4, 2016	4	social	australia	none		approved
136	SL	May 3, 2016	May 13, 2016	May 16, 2016		3	social	jamnagar	none		rejected
138	CL	May 4,	May 20,	May 21,	May 5,	1	social	bhavnagar	none		approved

Add New User

Faculty Portal



[Subject Preferences](#) <

[Leave Management](#) <

[User Management](#) <

[Add User](#)

[Reset Password](#)

Add New User


Name :	<input type="text" value="Abc"/>	<input type="text" value="k"/>	<input type="text" value="Xyz"/>
Salutation :	<input type="text" value="prof."/>		
User-Type :	<input type="text" value="Non-Technical Staff"/>		
Birth-Date :	<input type="text" value="15/06/1988"/>		
Join Date :	<input type="text" value="08/04/2017"/>		
Gender :	<input type="text" value="Male"/>		
Designation :	<input type="text" value="Professor"/>		
Category :	<input type="text" value="GIA"/>		
Type :	<input type="text" value="Permanent"/>		

Submit

Username and Password is : Department Name followed by Your Initial (all in small case)

Change Password

Faculty Portal



[Subject Preferences](#) <

[Leave Management](#) <

Change Your Password

Current Password :	<input type="password" value="....."/>
New Password :	<input type="password" value="....."/>
Confirm Password :	<input type="password" value="....."/>


Change Password

Copyright © DDU. All Rights Reserved.
Designed by Students of Computer Department, guided by Pro. SHIDHARTH SHAH.

Reset Password (Admin)

For Single User

Faculty Portal



[Subject Preferences](#) <

[Leave Management](#) <

[User Management](#) <

[Add User](#)

[Reset Password](#)

Reset Password

Reset Password For : Change For Single User

Username(short name) :


New Password :

Reset Password

Copyright © DDU. All Rights Reserved.
Designed by Students of Computer Department, guided by Pro. SHIDHARTH SHAH.

For All User at one click

Faculty Portal



[Subject Preferences](#) <

[Leave Management](#) <

[User Management](#) <

[Add User](#)

[Reset Password](#)

Reset Password

Reset Password For : Change For All User

New Password for All User :

Reset Password

Copyright © DDU. All Rights Reserved.
Designed by Students of Computer Department, guided by Pro. SHIDHARTH SHAH.

Chapter 6

Conclusion

FP provides automation for subject preference and leave management process. An overview of features is enlisted below:

- Faculty can provide their subject preferences in the subject preference module. Also admin is provided special rights of enabling/disabling the preferences, editing and viewing offered subjects and printing subject preference list faculty-wise/slot-wise/subject-wise. Functionality of taking backup is available in Subject preferences module.
- Faculty can apply for leave as per their requirements, and can allot the load and admin is given special rights of approving/rejecting the leave requests. Also admin can view the leave history of all the faculties, and faculties can view their own leave history too. Functionality of taking backup is available in Leave Management module. And we can also view history from previous years records.
- Portal Admin (Head of Department) can add new user (Faculty) to system, and also can reset password in two ways, by resetting password for single user or can reset password for all user of same department.

Chapter 7

Limitations and Future Extension

Limitations

Use of Ajax can give better performance which is not included.

Ex. In load_arrangement_page (For all semester, all subjects are shown that can be more user friendly..)

Future Extension

Above limitations can be remove by the use of AJAX.

System shall provide functionality to edit and remove faculty details from system.

In Leave management module after load arrangement if some faculty reject request then again arrange new slots shall be possible.

In subject preference module we shall include the functionality of admin allocating lab and lectures to respective faculties after they have preferred the subjects.

Notice automation shall include in future extension.

Bibliography

- www.w3schools.com
- <https://docs.oracle.com/javase>
- www.wikipedia.com
- Servlet and JSP by HeadFirst-Reference book
- www.java2s.com (For library included extra)
- www.tutorialspoint.com
- www.getbootstrap.com
- www.hibernate.org/orm/documentation
- www.javatpoint.com
- www.quora.com