

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.

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.wikihow.com

www.coderanch.com

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 automate 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 XP or

Microsoft Windows Vista

Application Software: Front End Tool-Java

Back End Tool-Glass-Fish server

2.1.4 Memory Constraints

2GB -Ram

160 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 prefer

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

2.1.6 Site Adaptation Requirements

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

2.2 Product Functions

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 Constraints

Whenever any user is logged in, he/she can enter into the system if he/she knows the name of servlet or jsp name.

2.5 Apportioning of Requirements.

In the FP the Notice Board automation will be included in the later versions.

2.6 Software Requirements Specification

R1. System should provide facility to prefer subjects from different subject preferences.

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

I/P:Select semester type

O/P:Subjects List

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

I/P: Select subjects

O/P: Display successful message

1.3 System should provide facility to View subject preferences.

I/P: Select subjects

O/P: Successful message of selecting subjects

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

1.4.1 System should provide facility to authenticated users to enable or disable subject preferences.

I/P: Enable/Disable subject preference list

O/P: Modification done successfully

1.5 System should provide facility to view offered subjects.

I/P: Select semester type

O/P: List of subjects

1.6 System should provide facility to edit offered subjects.

1.6.1 System should provide facility to authenticated users to edit offered subjects according to odd semester or even semester.

I/P: Enable/disable Semester

O/P: Modification done successfully

1.7 System should provide facility to print subject preference list.

1.7.1 System should provide facility to print subject wise list.

I/P: Select option subject wise

O/P: Displays subject wise list

1.7.2 System should provide facility to print slot wise list.

I/P: Select option slotwise

O/P: Displays slotwise list

1.7.3 System should provide facility to print Faculty wise list.

I/P: Select option facultywise

O/P: Displays facultywise list

R2. System should provide facility to apply for leave according to their requirement.

2.1 System should provide facility to apply for leave.

I/P: Enter leave details

O/P: Displays successful leave message

2.2 System should provide facility to manage pending leaves.

I/P: Check status of pending leaves

O/P: Displays status of leaves accordingly

2.3 System should provide facility Display Leave History.

I/P: Enter Details

O/P: Displays leave history of faculties

2.4 System should provide facility to view and print pdf according to criteria for leave given.

I/P: Enter details

O/P: PDF of leave

R3. System should provide facility to change password.

3.1 System should provide facility to get old password before asking for new password.

I/P: Enter old password and new password

O/P: Displays password changed messaged

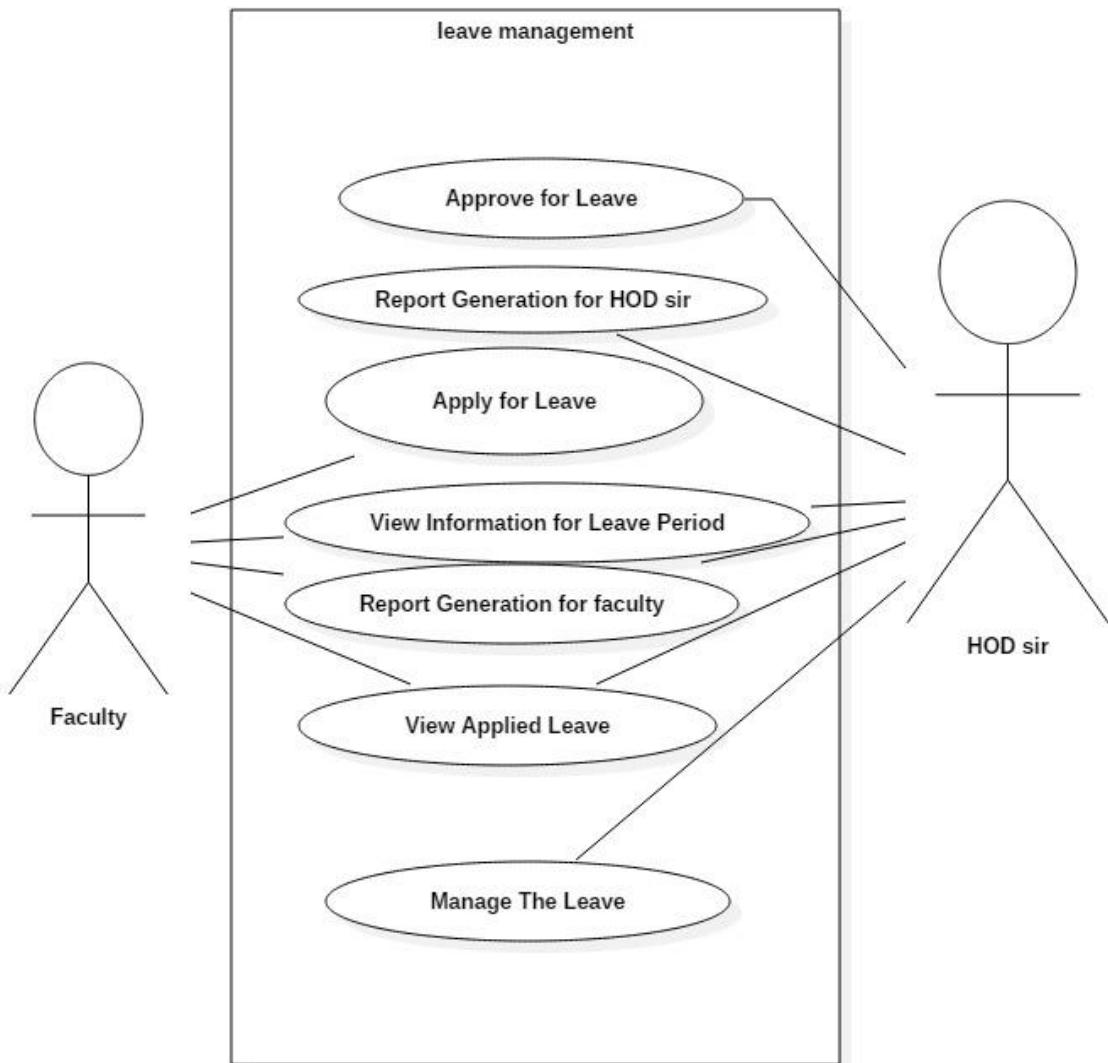
Chapter 3

Design

3.1 Use-Case Diagram

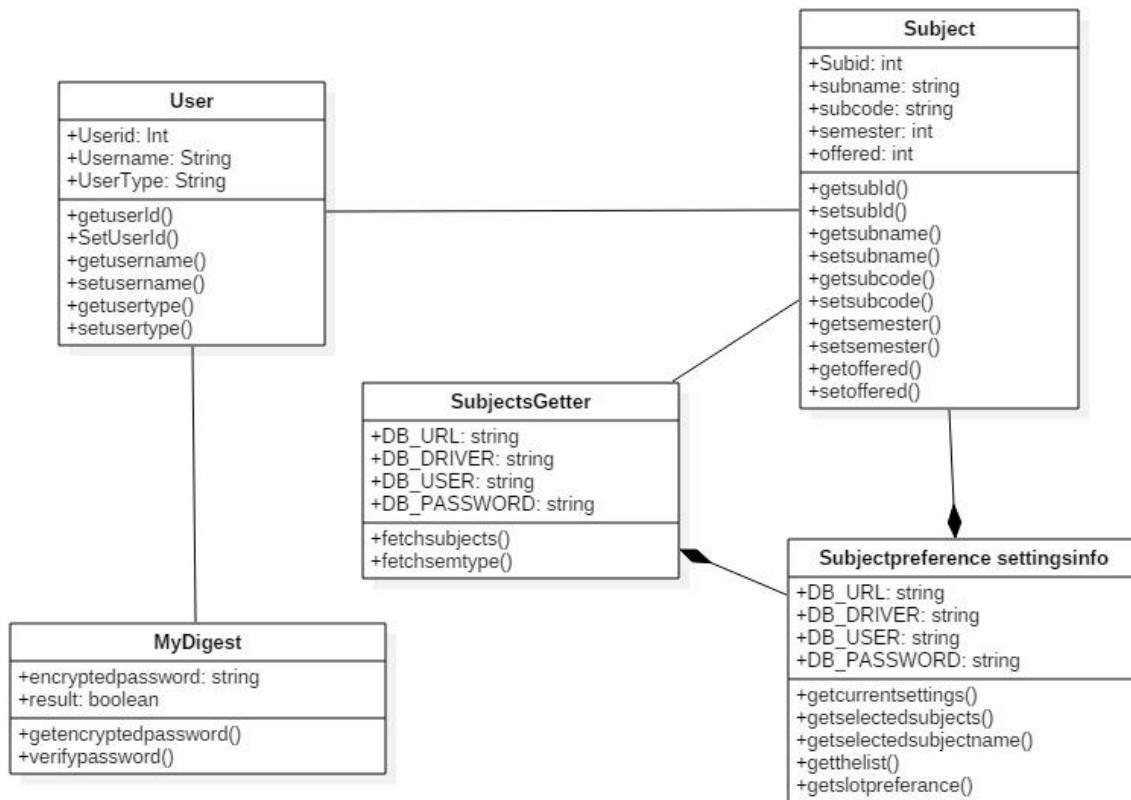


Subject Preferences

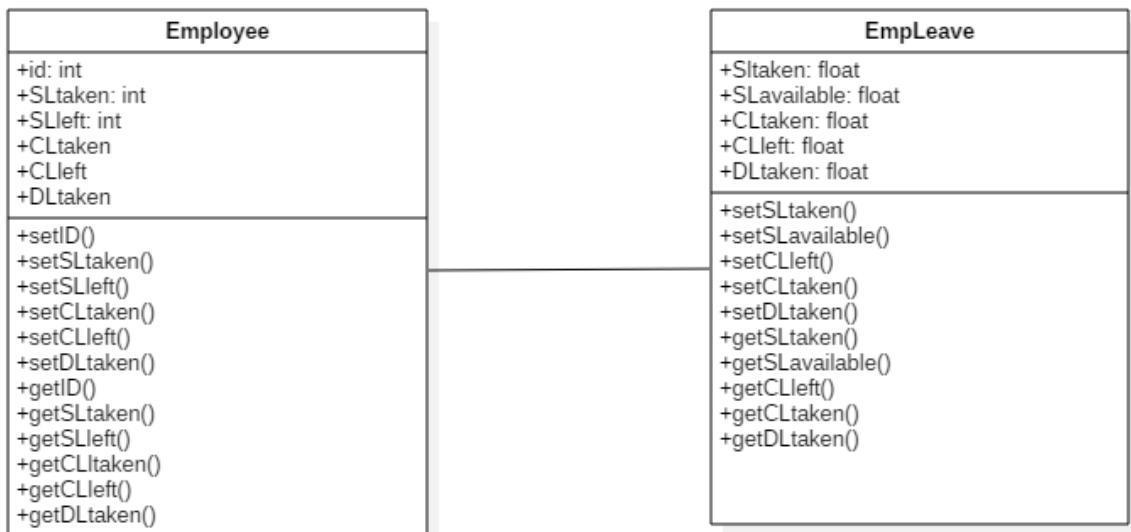


Leave Management

3.2 Class Diagrams

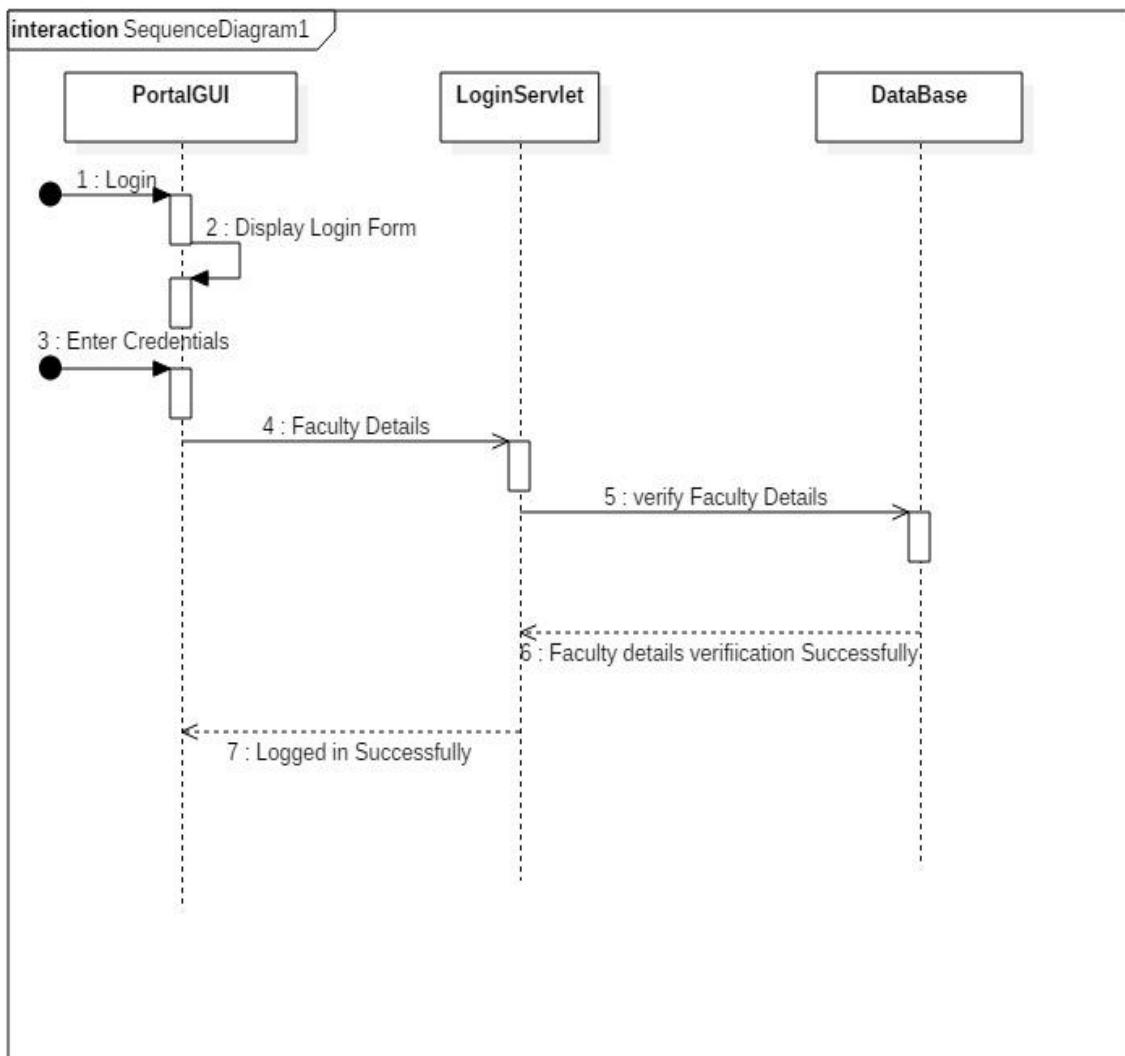


Subject Preference

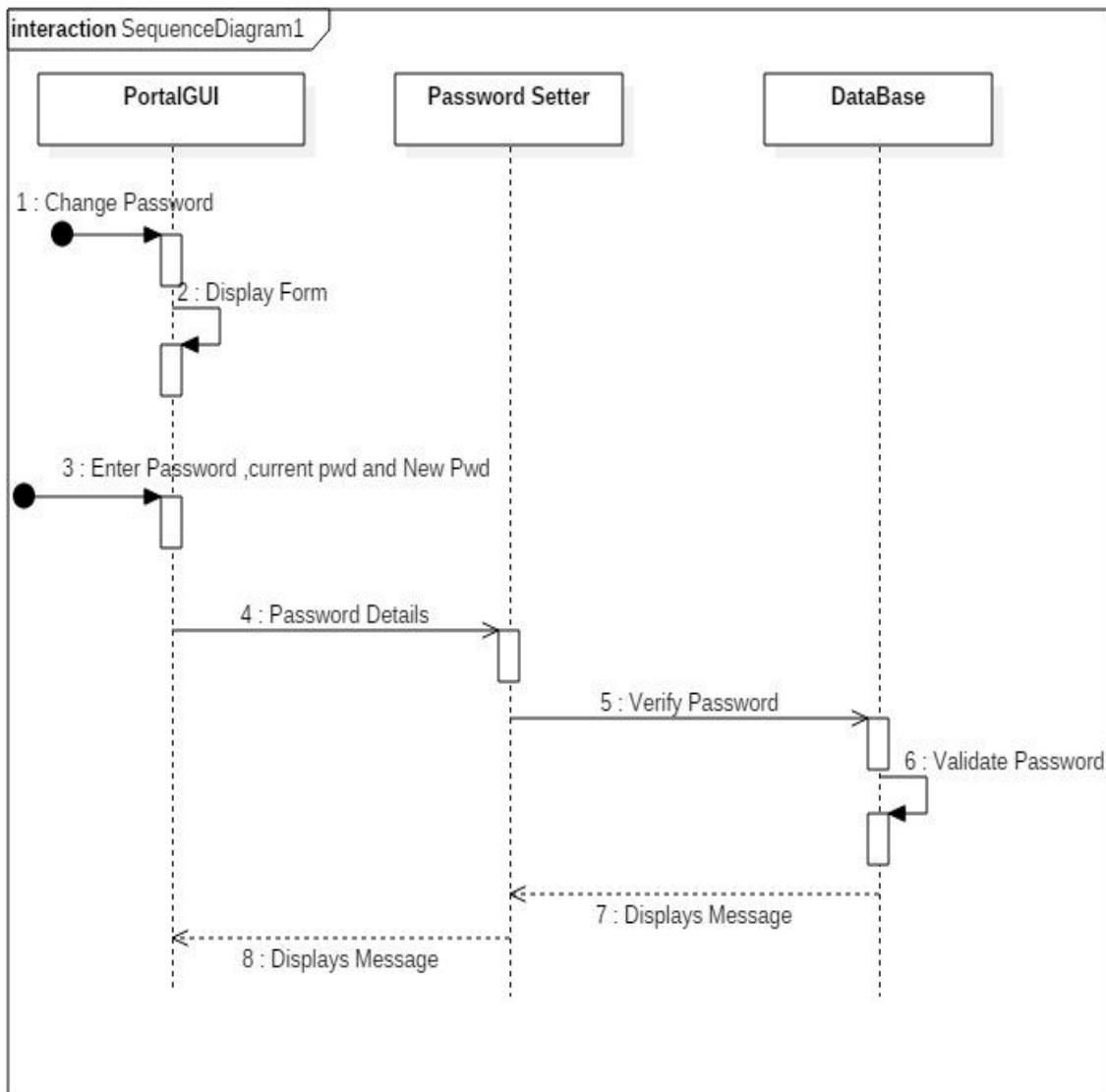


Leave management

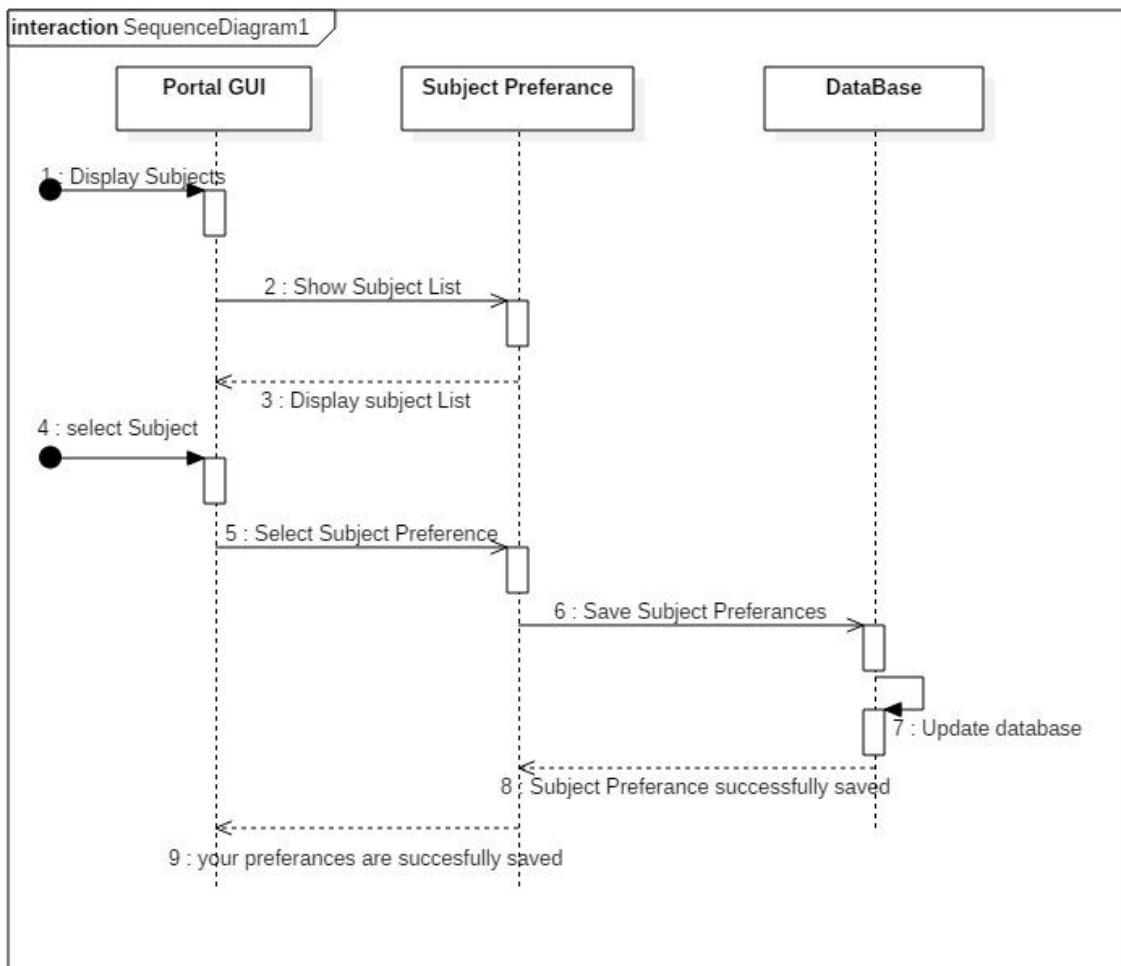
3.3 Sequence Diagram



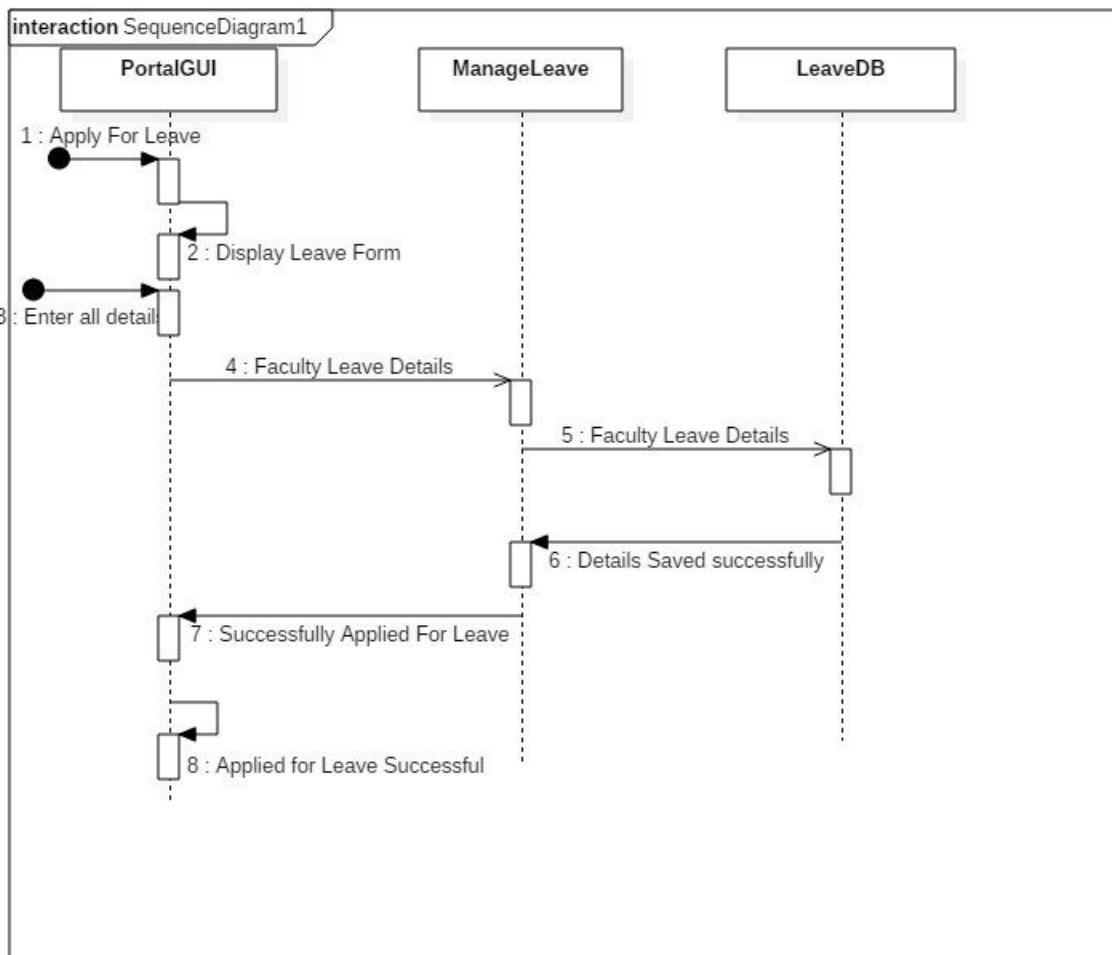
Login



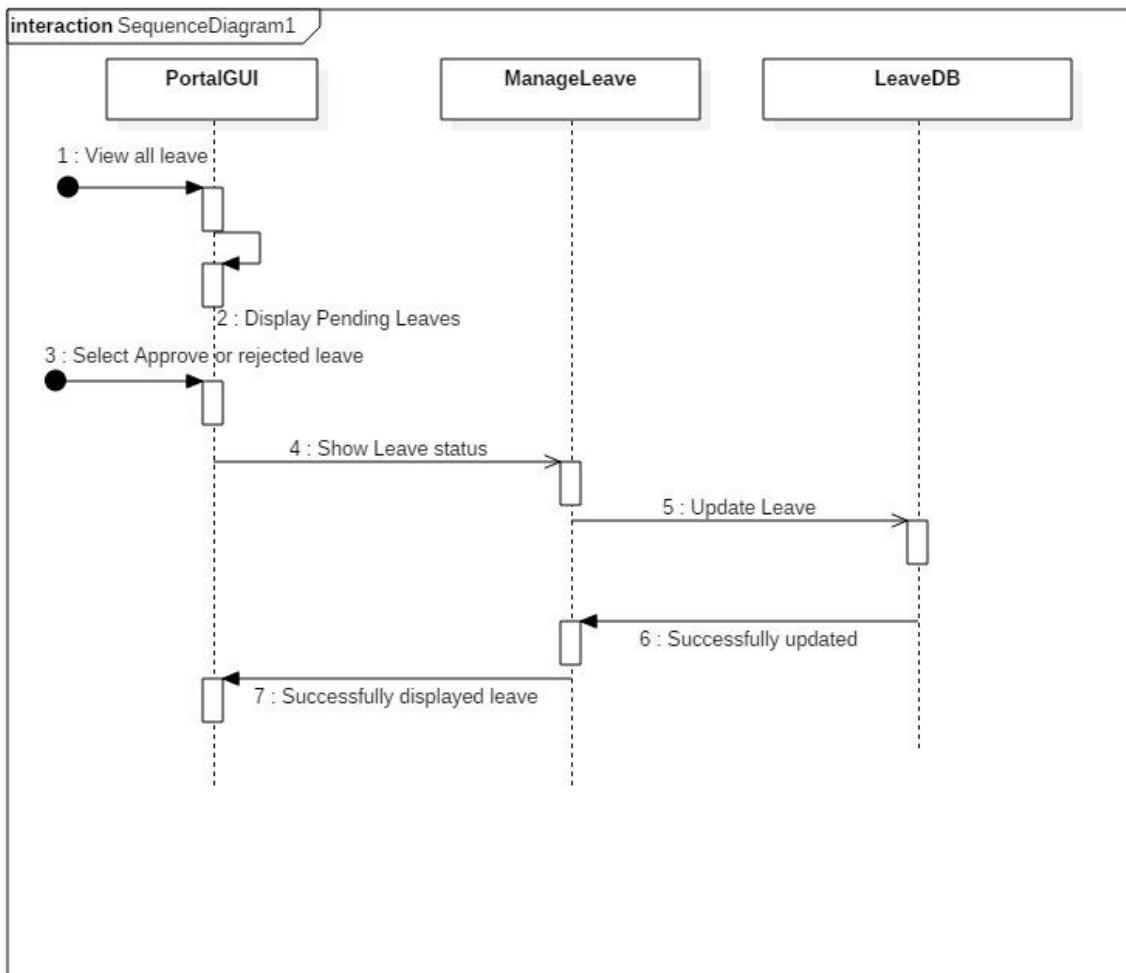
Change Password



Subject Preference:Give Subject Preference

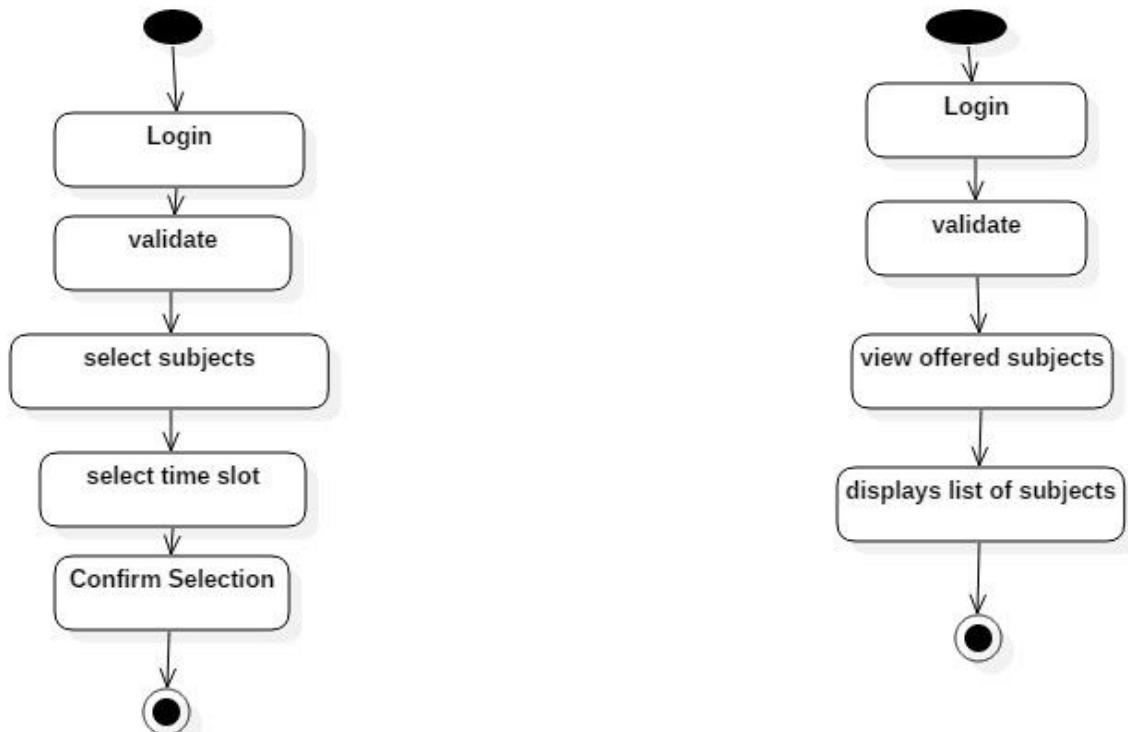


Leave Management:Apply For Leave

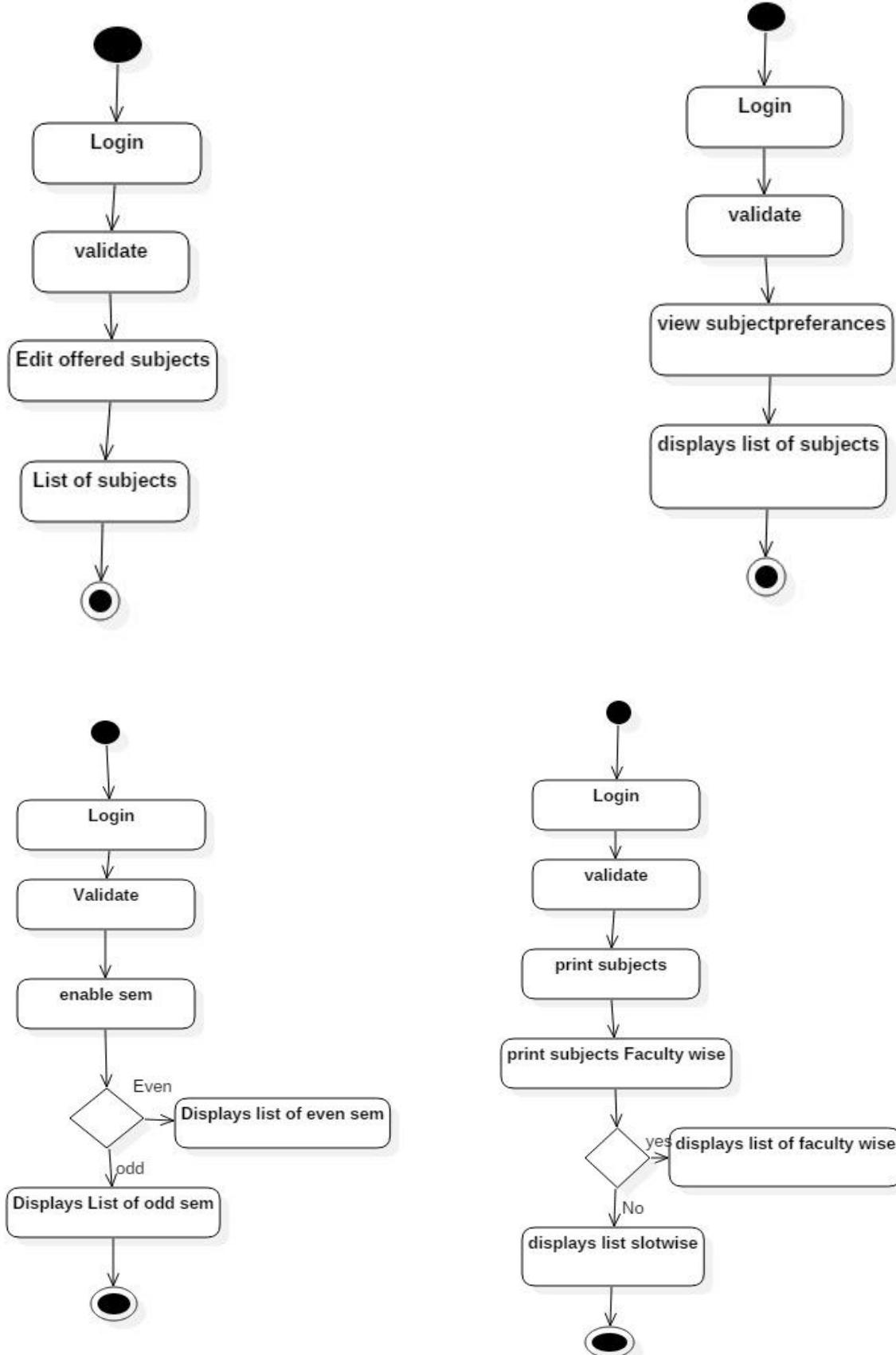


Leave Management- View All Leave

3.4 Activity Diagram



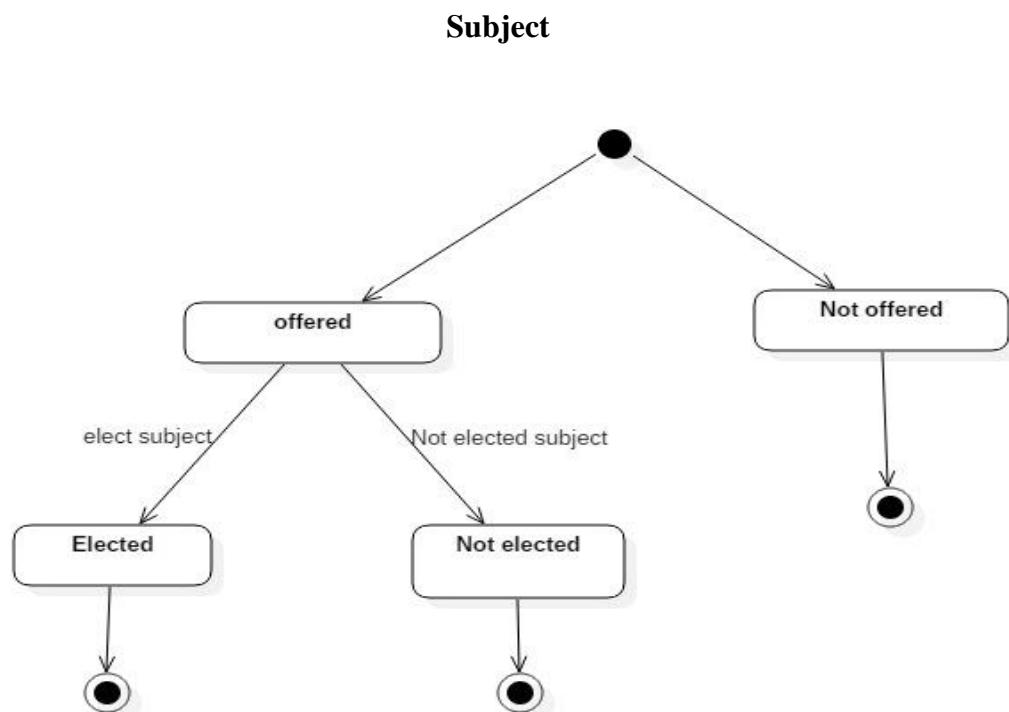
Subject Preference



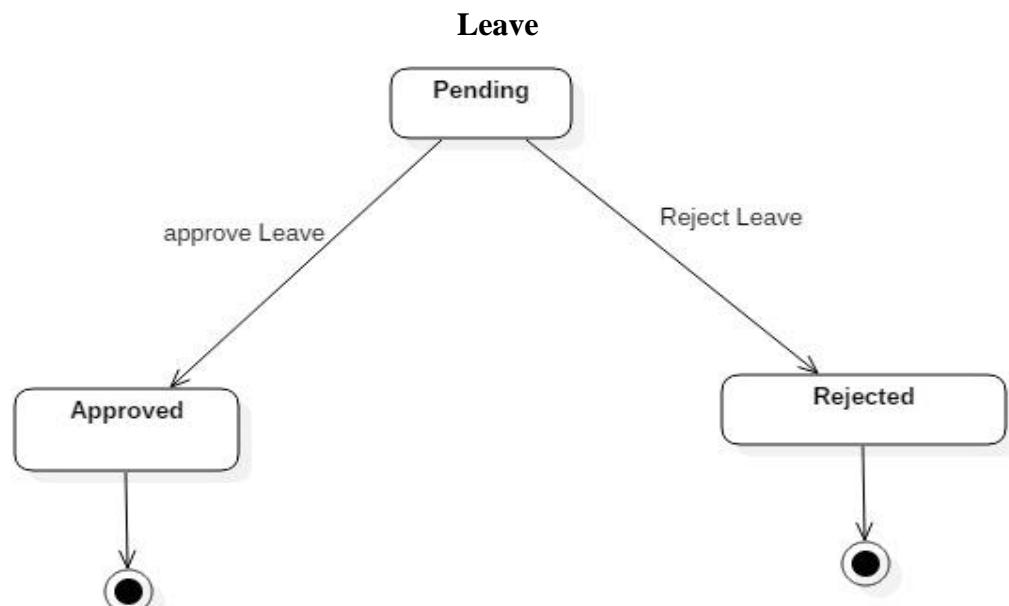
Subject Preference

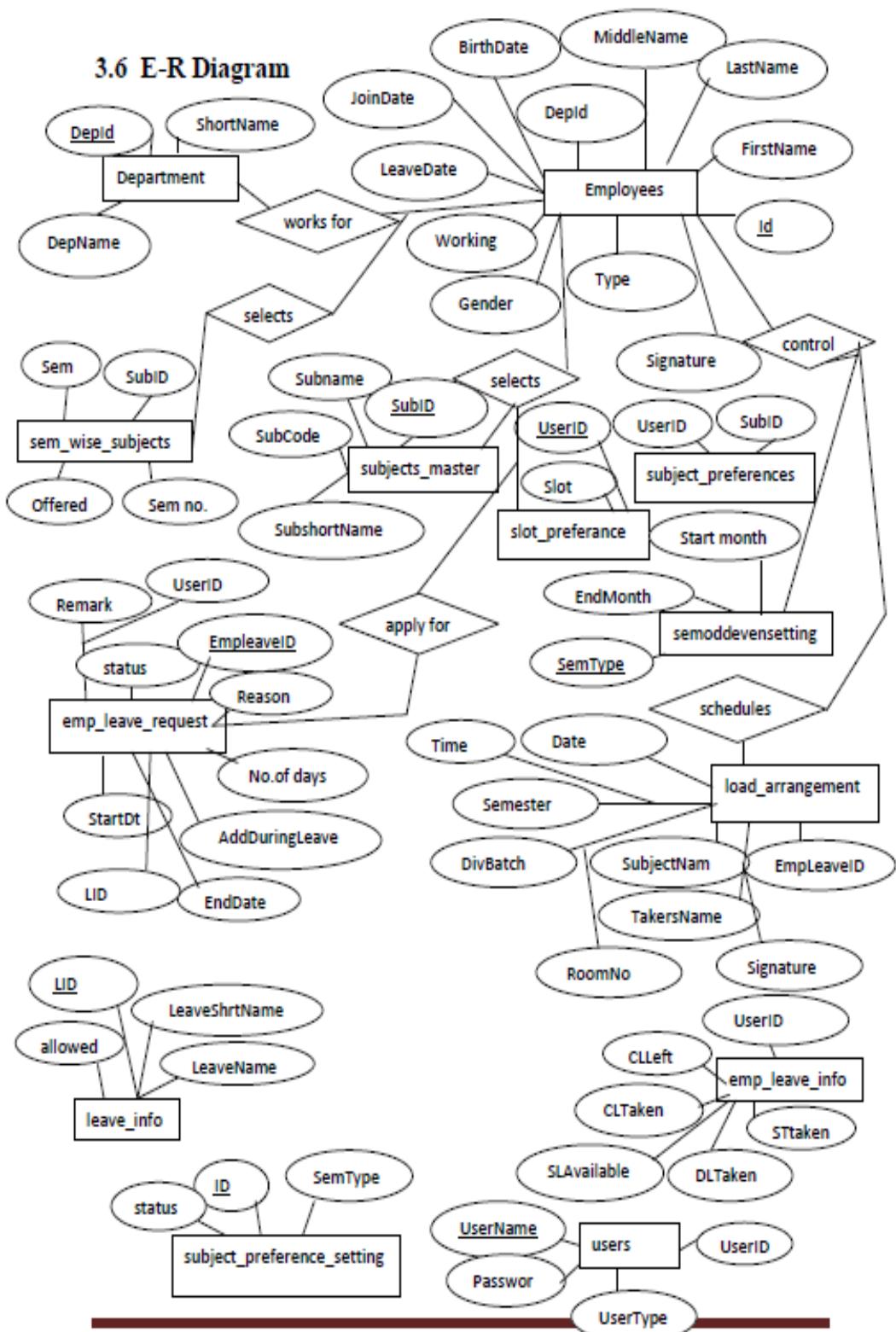
3.5 State Diagram

Subject Preference



Leave Management





3.7 Data Dictionary

The first tables created on any database are the system tables, also known as the Oracle data dictionary. These tables are owned by the first Oracle user account that is created automatically by user .

The system tables record information about the structure of the database and the objects within it, and Oracle accesses them when it needs information about the database or every time it executes a DDL statement (Data Definition Language) or DML statement (Data Manipulation Language). These tables are never directly updated; however, updates to them occur in the background whenever a DDL statement is executed.

The core data dictionary tables hold normalized information that is cryptic to understand, so Oracle provides a set of views to make the information in the core system tables more meaningful. You can access the names of over 170 of the views in the data dictionary with the following command:

```
SELECT * FROM DICT;
```

Because the very first table space created is the SYSTEM table space, the data dictionary tables use storage in the database files associated with the SYSTEM table spaces.

Table:-employees

Field name	Data Type	Auto Increment	Allow null	Description
<u>ID</u>	Integer(11)	Yes	No	Primary key
FirstName	Varchar(15)	-	No	Name of user
MiddleName	Varchar(15)	-	Yes	MiddleName of user
LastName	Varchar(15)	-	Yes	LastName of user
BirthDate	Date	-	Yes	Birth date of user
JoinDate	Date	-	Yes	Join date of user
LeaveDate	Date	-	Yes	Leave date of user
Working	Integer(11)	-	Yes	Working of a user
Gender	Enum('M', 'F')	-	Yes	Stores gender of user
DepID	Integer(11)	-	No	Stores department ID
Designation	Varchar(50)	-	No	Stores designation of user
Category	Varchar(30)	-	No	Gives category of a user
Type	Varchar(30)	-	No	Gives type of a user
Signature	Longblob	-	Yes	Stores Signature of user
Salutation	Varchar(10)	-	No	Stores salutation of user

Table:-semester_wise_subjects

Field name	Data Type	Auto Increment	Allow null	Description
Semester	Varchar(10)	-	No	Stores sem
SubID	Integer(11)	-	No	Stores subID
Offered	Integer(11)	-	Yes	Stores offered subjects
SemNO	Integer(11)	-	Yes	Stores sem NO.

Table:-subject_preferences

Field name	Data Type	Auto Increment	Allow null	Description
UserID	Int(11)	-	No	Stores userId
SubjectID	Int(11)	-	No	StoresSubjectId

Table:-semodevensetting

Field name	Data Type	Auto Increment	Allow null	Description
SemType	Varchar(5)	-	No	Stores semtype
StartMonth	Int(11)	-	No	Stores starting of month
EndMonth	Int(11)	-	No	stores ending of month

Table:-subjects_master

Field name	Data Type	Auto Increment	Allow null	Description
SubID	Int(11)	Yes	No	Stores id of subject
SubName	Varchar(50)	-	No	Stores subname
Subcode	Varchar(10)	-	Yes	Stores subject code
SubShortName	Varchar(15)	-	No	Stores subject shortname

Table:-subject_preference_settings

Field name	Data Type	Auto Increment	Allow null	Description
Id	Int(11)	-	No	Stores id
SemType	Varchar(5)	-	No	Stores Sem type
Status	Int(11)	-	No	Stores status

Table:-emp_leave_info

Field name	Data Type	Auto Increment	Allow null	Description
UserID	Int(11)	-	No	Stores userID
SLTaken	Float	-	No	Stores SLtaken
SLAvailable	Float	-	No	Stores SLavailable
CLTaken	Float	-	No	Stores CLtaken
CLLeft	Float	-	No	Stores CLleft
DLTaken	Float	-	No	Stores DLtaken

Table:-emp_leave_request

Field name	Data Type	Auto Increment	Allow null	Description
EmpLeaveID	Int(11)	Yes	No	Stores EmployeeID
UserID	Int(11)	-	No	Stores UserID
LID	Int(10)	-	No	Stores LID
ApplyDate	Date	-	No	Stores Applydate
StartDate	Date	-	No	Stores Start date
Enddate	Date	-	No	Stores Enddate
ApproveDate	Date	-	Yes	Stores ApproveDate
Noofdays	Float	-	No	Stores NoOf Days
Reason	Varchar(50)	-	No	Stores Reason
Addressduringleave	Varchar(50)	-	No	Stores Address During Leave period
Remark	Varchar(50)	-	No	Stores Remark
Status	Varchar(20)	-	No	Stores Status

Table:-departments

Field name	Data Type	Auto Increment	Allow null	Description
DepID	Int(11)	Yes	No	Stores DepartmentID
DepName	Varchar(30)	-	No	Stores Dep. Name
Shortname	Varchar(3)	-	Yes	Stores shortname

Table:-users

Field name	Data Type	Auto Increment	Allow null	Description
Username	Varchar(10)	-	No	Stores username
Password	Varchar(64)	-	No	Stores password
UserID	Int(11)	-	No	Stores UserID
UserType	Varchar(15)	-	No	Stores UserType
Initials	Varchar(3)	-	No	Stores Initials

Table: leave_info

Field name	Data Type	Auto Increment	Allow null	Description
LID	Int(11)	Yes	No	Stores LeaveID
LeaveName	Varchar(20)	-	No	Stores LeaveName
LeaveShortName	Varchar(10)	-	No	StoresLeaveShortname
Allowed	Float	-	Yes	Allowed

Table:load_arrangement

Field name	Data Type	Auto Increment	Allow null	Description
EmpLeaveID	Int(11)	-	No	Stores EmpLeaveID
Date	Date	-	No	Stores date
Time	Time	-	No	Stores Time
Semester	Int(11)	-	Yes	Stores Semester
DivBatch	Varchar(5)	-	Yes	Stores DivBatch
RoomNo.	Int(11)	-	Yes	Stores RoomNo.
SubjectName	Varchar(50)	-	Yes	StoresSubjectName
TakersName	Varchar(50)	-	Yes	StoresTakersName

Table:slot_preference

Field name	Data Type	Auto Increment	Allow null	Description
UserId	Int(11)	-	No	Stores UserID
SlotID	Varchar(10)	-	No	Stores SlotID

Chapter-4

Implementation Details

4.1 Modules Created and brief description of each module

JAVA SERVER PAGES

Leave Management

1. **leaveform2** - Leave application form to keep the leave according to the requirements of the employees.
2. **display_ack_approve** - Displays the message of successful updation of status of leaves done by admin(HOD sir).
3. **display_left_leave** - Displays the message of Left leave.
4. **my_leave** - Interface to select option either to show all leaves or a range is selected.
5. **show_updated_status** - Displays list of approved leaves,pending leaves and rejected leaves.
6. **show_leave_request**-displays all pending leaves.
7. **load_arrange**-Displays the interface to arrange the load.
8. **updateleave**- Displays the interface o reset all types of leave.
9. **show_my_leave**-Displays the list of applied leaves taken by faculty on his own.
10. **show_leave_history**-Displays an interface which allows admin to view any type of leaves for any or all faculties in a given range of dates.
11. **show_cl**-Displays the list of CL takers.
12. **leaveform3**-Displays the final leave form with HOD and faculties sign

Subject Preference

- 13.**edit_offered_subjects**-select or deselect offered subjects.
- 14.**subject_preference** - Allows employees to prefer subjects displayed as per current semester and prefer time slot accordingly.
- 15.**view_offered_subjects** - Displays the offered subjects list as per the selected semester i.e either odd or even semester.
- 16.**view_subject_preferences_all** - Interface for selecting subjectwise or slotwise or faculty wise subject preference list.
- 17.**view_subject_preferences**-Displays the list of selected subjects.
- 18.**Enable_disable_sp_settings**-Displays interface for enabling or disabling subject preferences.
- 19.**login_check**-Checks whether user is logged in or not and if not logged in redirects to login page.
- 20.**display_ack_user** - Displays the message accordingly.
- 21.**change_password** - Provides an interface to change password.
- 22.**login** – It displays the login page.
- 23.**logout**-It closes the session.

Servlets

Subject preference

1. **InsertSubjectPreferences** –Saves preferred subjects of the faculty.
2. **OfferSubjectsConfirm**-save offered subject list to database.
3. **SubjectPreferenceSetting**-saves the semester type.
4. **SubjectPreferenceSettingsinfo**-fetches the records of subject preference list according to option selected.
5. **SubjectsGetter**-fetches the details of subject according to current semester type.

LeaveManagemnet

6. **GetLeave** - To fetch the employees available casual leave and sick leave from the database.
7. **InsertLeave**-After taking leave information it updates the database tables of leave applicant and hod.
8. **MyLeave** - Its a servlet to make an array of leave objects of the logged in employee and dispatch it to a jsp.
9. **GenerateMyPDF** - Generates pdf of the leave form of the particular employee.
10. **GeneratePDF** - Generates pdf of the leave form of the particular employee.
11. **PendingLeave** - Makes an array of leave objects of pending leave and dispatch it to jsp.
9. **Leave, User, LeavePDF, Subject** - It is a “pojo” class with setters and getters.
10. **LoginServlet** - It verifies that the employee is the authenticated or not if authenticated then will allow access else will deny.

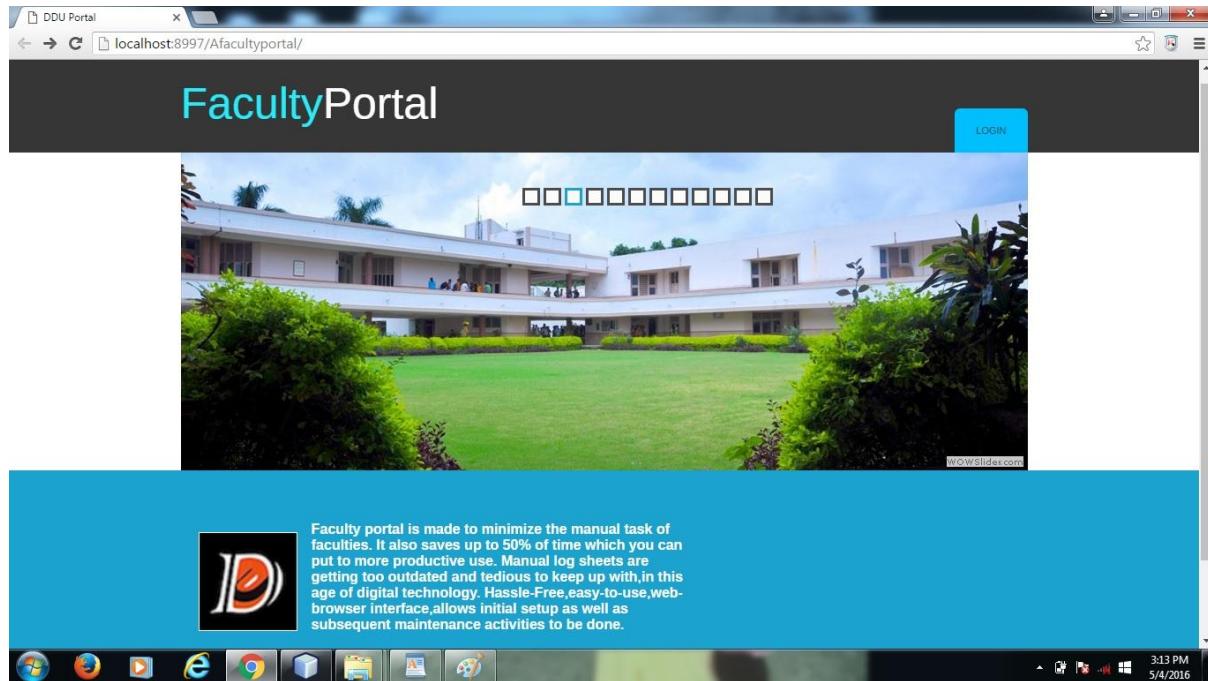
Chapter 5.**Testing**

Test caseID	Test Scenario	Test Steps	Test Data	Expected Results	Decision
T01	Login	Enter credentials	Username and password	Successful login	Pass
T02	Subject preferences	Select subject preference	Subjects list	Subject selected successful.	Pass
T03	Subject preferences	Enable/Disable Subject preferences	Subjects list	Successful enabled/disabled subjects	Pass
T04	Subject preferences	View Offered Subjects	Subjects list	Sem wise list of subjects	Pass
T05	Subject preferences	Print Subjects preferences list	Subjectwise list /Facultywiselist and slotwise 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 change of password	Pass
T08	Leave Management	Apply for Leave	Leave details	Successful application of leave	Pass
T09	Leave Management	Show my leave	List of leaves	Succesful leave form pdf	Pass
T10	Leave Management	View all Leave	List of pending or approved /rejected leaves	Succesful leave form pdf	Pass
T11	Leave Management	Leave History	Leave Details	List of leaves as per constraints	Pass
T12	Leave Management	Reset leave	-	Succesful reseting of leave	Pass
T13	Logout	logout	-	Successful logout	Pass

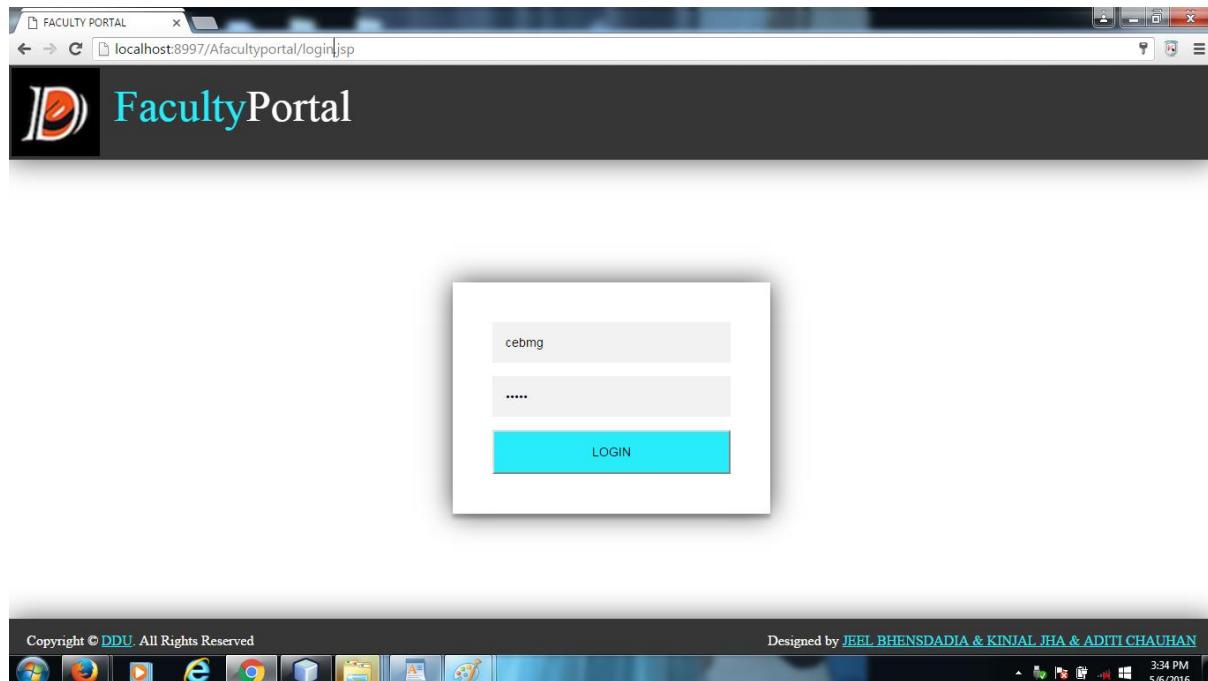
Chapter 6

Screenshots

Home Page



Login Page



Subject Preference-Faculty

The screenshot shows a web browser window for the DDU Portal at localhost:8997/Afacultyportal/subject_preferences.jsp. The page title is "FacultyPortal". The left sidebar has links for "Subject Preferences", "Leave Management" (with a dropdown arrow), "Change Password", and "Logout". The main content area displays "Hello, Parth Dave". Under "Subject Preferences", there are three sections: "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), and "B.Tech. 5" (Web Development in .Net, Software Engineering, Database Systems, Operating Systems, Microprocessor Fundamentals & Prog.). At the bottom, a copyright notice reads "Copyright © DDU. All Rights Reserved" and a designed-by credit reads "Designed by JEEL BHENSDADIA & KINJAL JHA & ADITI CHAUHAN". The taskbar at the bottom shows various application icons.

The screenshot shows a modal dialog box titled "localhost:8997 says:" with the message "Select minimum 3 subjects". An "OK" button is visible. The background page is the same as the previous screenshot, showing the Faculty Portal interface with subject preferences for Parth Dave. The taskbar at the bottom shows various application icons.

The screenshot shows a web browser window titled "DDU Portal" with the URL "localhost:8997/Afacultyportal/insert_subject_preferences". The main content area displays a "Hello, Parth Dave" message and a list of selected subjects: "Database Systems", "Mobile Application Development", and "Advanced Compiler Techniques". A small "OK" button is visible at the bottom. On the left, a sidebar menu includes "Subject Preferences", "Leave Management", "Change Password", and "Logout". The footer contains copyright information and a "Designed by JEEL BHENSDADIA & KINJAL JHA & ADITI CHAUHAN" note.

Subject Preference-Admin

The screenshot shows a web browser window titled "DDU Portal" with the URL "localhost:8997/Afacultyportal/login". The main content area displays a "Hello, Bhavika Gambhava" message and a success message "You are successfully logged in!". The sidebar menu includes "Subject Preferences" (with "View Subject Preferences" highlighted), "Leave Management" (with "Apply For Leave" and "Show My Leave" listed), "Change Password", and "Logout". The footer contains copyright information and a "Designed by JEEL BHENSDADIA & KINJAL JHA & ADITI CHAUHAN" note.

Enable/Disable Subject Preference

The screenshot shows a web browser window titled "DDU Portal" with the URL "localhost:8997/Afacultyportal/enable_disable_sp_settings.jsp". The page features a logo of a stylized orange "D" with a leaf inside it, followed by the text "FacultyPortal". A navigation menu on the left includes "Subject Preferences", "Leave Management", "Change Password", and "Logout". The main content area displays a greeting "Hello, Bhavika Gambhava" and three radio buttons for subject preferences: "Enable Subject Preferences" (selected), "Odd", and "Even". A "Set" button is located below the radio buttons. At the bottom of the page, there is a copyright notice "Copyright © DDU All Rights Reserved" and a "Designed by JEEL BHENSDADIA & KINJAL JHA & ADITI CHAUHAN" link. The system tray at the bottom right shows icons for various applications and the date/time "5/6/2016 1:22 PM".

View offered Subjects

The screenshot shows a web browser window titled "DDU Portal" with the URL "localhost:8997/Afacultyportal/view_offered_subjects.jsp". The page features a logo of a stylized orange "D" with a leaf inside it, followed by the text "FacultyPortal". A navigation menu on the left includes "Subject Preferences", "Leave Management", "Change Password", and "Logout". The main content area displays a greeting "Hello, Bhavika Gambhava" and a section titled "Offered Subjects" with two radio buttons: "Odd" and "Even" (selected). A "View" button is located below the radio buttons. At the bottom of the page, there is a copyright notice "Copyright © DDU All Rights Reserved" and a "Designed by JEEL BHENSDADIA & KINJAL JHA & ADITI CHAUHAN" link. The system tray at the bottom right shows icons for various applications and the date/time "5/6/2016 1:23 PM".

The screenshot shows a web browser window titled "DDU Portal" displaying the "FacultyPortal". The page header includes a logo and the text "Hello, Bhavika Gambhava". On the left, a sidebar menu lists "Subject Preferences", "Leave Management", "Change Password", and "Logout". The main content area is titled "Offered Subjects" and lists subjects categorized by course level:

- 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

At the bottom, there is a footer bar with icons for various applications and the text "Copyright © DDU All Rights Reserved" and "Designed by JEEL BHENSDADIA & KINJAL JHA & ADITI CHAUHAN". The system tray shows the date and time as 5/6/2016 1:23 PM.

Print Subject Preference List(Subject Wise)

The screenshot shows a web browser window titled "DDU Portal" displaying the "FacultyPortal". The page header includes a logo and the text "Hello, Bhavika Gambhava". On the left, a sidebar menu lists "Subject Preferences", "Leave Management", "Change Password", and "Logout". The main content area is titled "View Subject Preference:" and contains three radio button options:

- Subject Wise
- Faculty Wise
- Slot Wise

Below these options is a "View" button. At the bottom, there is a footer bar with icons for various applications and the text "Copyright © DDU All Rights Reserved" and "Designed by JEEL BHENSDADIA & KINJAL JHA & ADITI CHAUHAN". The system tray shows the date and time as 5/6/2016 1:24 PM.

The screenshot shows a web browser window titled "DDU Portal" at "localhost:8997/Afacultyportal/view_subject_preferences_all.jsp". The page header includes the "FacultyPortal" logo and the user's name, "Hello, Bhavika Gambhava". On the left, a sidebar menu lists "Subject Preferences", "Leave Management", "Change Password", and "Logout". The main content area displays a table titled "Subject Preference List (Subject Wise)".

Subject	Faculty Names
CP II	NJB, JHB, HAP, VSP
EW	NP
DAA	BSB, HAP, VND, VSP, MSB, TVR, MTM, PMJ, AKG
CSA	SSS
CPI	NP, JHB
DM	TVR, AAM, AKG, NJB, VND, VSP, SPM
JT	NJB, BSS, VSP
TAFL	VND, MSB
SOA	APV, BSS
OOSE	BSS, PMJ, BSB, APV, JHB

At the bottom, there are copyright and design credits: "Copyright © DDU All Rights Reserved" and "Designed by JEEL BHENSDADIA & KINJAL JHA & ADITI CHAUHAN". The taskbar at the bottom right shows the date and time as "5/6/2016 1:24 PM".

This screenshot shows the same Faculty Portal interface as above, but with a "Print" dialog box overlaid on the left side of the screen. The dialog box is titled "Print" and shows settings for printing "1 sheet of paper" to "doPDF v7". The main content area still displays the "Subject Preference List (Subject Wise)" table.

Subject	Faculty Names
CP II	NJB, JHB, HAP, VSP
EW	NP
DAA	BSB, HAP, VND, VSP, MSB, TVR, MTM, PMJ, AKG
CSA	SSS
CPI	NP, JHB
DM	TVR, AAM, AKG, NJB, VND, VSP, SPM
JT	NJB, BSS, VSP
TAFL	VND, MSB
SOA	APV, BSS
OOSE	BSS, PMJ, BSB, APV, JHB
CN	PBS, APV, SPM
ACA	SSS
NIS	VSP, MTM, SSS, HAP, AKG, PBS
MCC	SPM, MTM, HAP, PBS
DC	NP
DAA (M.Tech.)	MTM, HAP
DWDM	MSB, AAM
SC	TVR, PMD, MSB, BSB, AAM, AKG

The taskbar at the bottom right shows the date and time as "5/6/2016 1:25 PM".

Print Subject Preference List(Faculty Wise)

The screenshot shows a web browser window titled "DDU Portal" with the URL "localhost:8997/Afacultyportal/view_subject_preferences_all.jsp". The page features a logo with a stylized "D" and "F" and the text "FacultyPortal". A sidebar on the left contains links for "Subject Preferences", "Leave Management", "Change Password", and "Logout". The main content area displays a table titled "Subject Preference List (Faculty Wise)" with the following data:

Faculty Name	Subjects
CKB	-
BSB	DAA, OOSE, SC
MTM	NIS, MCC, DAA (M.Tech.), DAA
PMJ	DAA, OOSE, SC
MSB	SC, DAA, TAFL, DWDM
PHD	-
SSS	CSA, ACA, NIS
JMP	-
BMG	ELCP, DACS, SE
SPS	-

At the bottom, there are copyright notices for "DDU All Rights Reserved" and "Designed by JEEL BHENSDADIA & KINJAL JHA & ADITI CHAUHAN". The status bar shows the date "5/6/2016" and time "1:25 PM".

The screenshot shows a print dialog box from "doPDF v7" with the following settings:

- Total: 2 sheets of paper
- Print button is highlighted
- Destination: doPDF v7
- Pages: All
- Copies: 1
- Layout: Portrait
- Color: Color
- More settings button is visible
- Print using system dialog... (Ctrl+Shift+P) is checked

The background page is the same "Subject Preference List (Faculty Wise)" table from the previous screenshot. The status bar at the bottom shows the date "5/6/2016" and time "1:26 PM".

Print Subject Preference List(Slot Wise)

The screenshot shows a web browser window titled "DDU Portal" with the URL "localhost:8997/Afacultyportal/view_subject_preferences_all.jsp". The page header features a logo and the text "FacultyPortal". A sidebar on the left contains links for "Subject Preferences", "Leave Management", "Change Password", and "Logout". The main content area displays a message "Hello, Bhavika Gambhava" and a section titled "View Subject Preference: Subject Preference List (Slot Wise)". Below this is a table:

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

At the bottom of the page are "Print" and "Back" buttons. The footer includes copyright information, a designed-by credit to "JEEL BHENSADIA & KINJAL JHA & ADITI CHAUHAN", and a standard Windows taskbar.

Apply for Leave

The screenshot shows a web browser window titled "DDU Portal" with the URL "localhost:8997/Afacultyportal/getLeave". The page header features a logo and the text "FacultyPortal". A sidebar on the left contains links for "Subject Preferences", "Leave Management", "Change Password", and "Logout". The main content area displays a "LEAVE APPLICATION FOR" form:

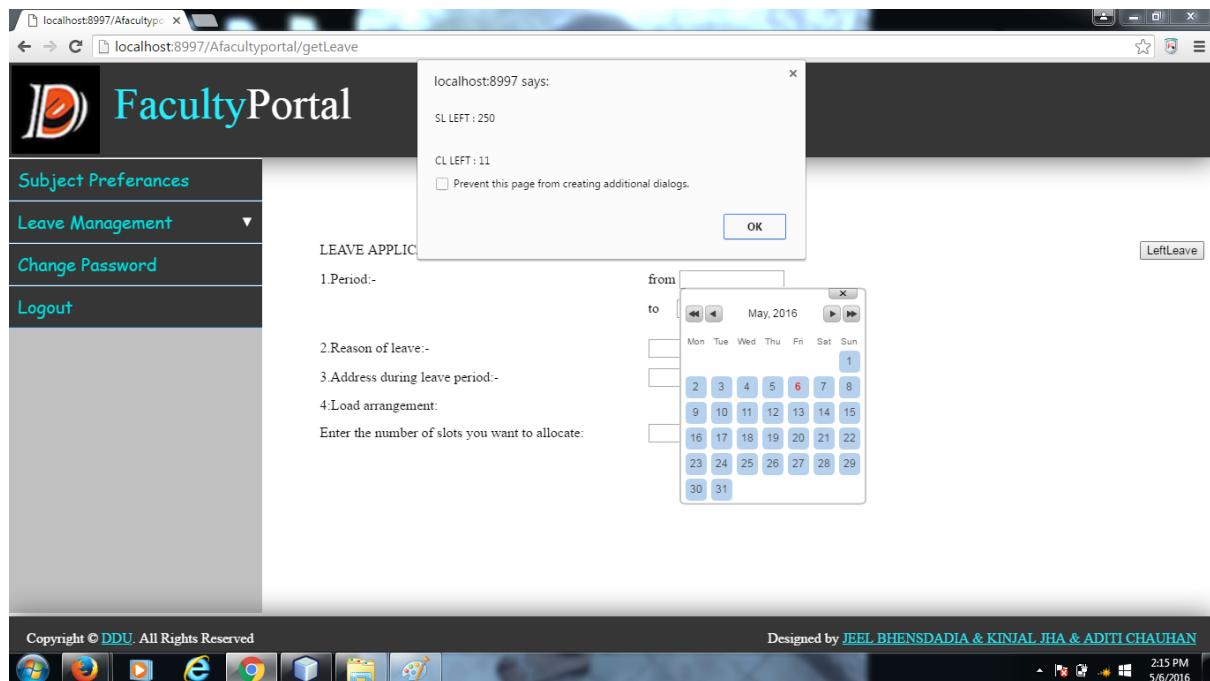
1. Period:-
from
to

2. Reason of leave:-

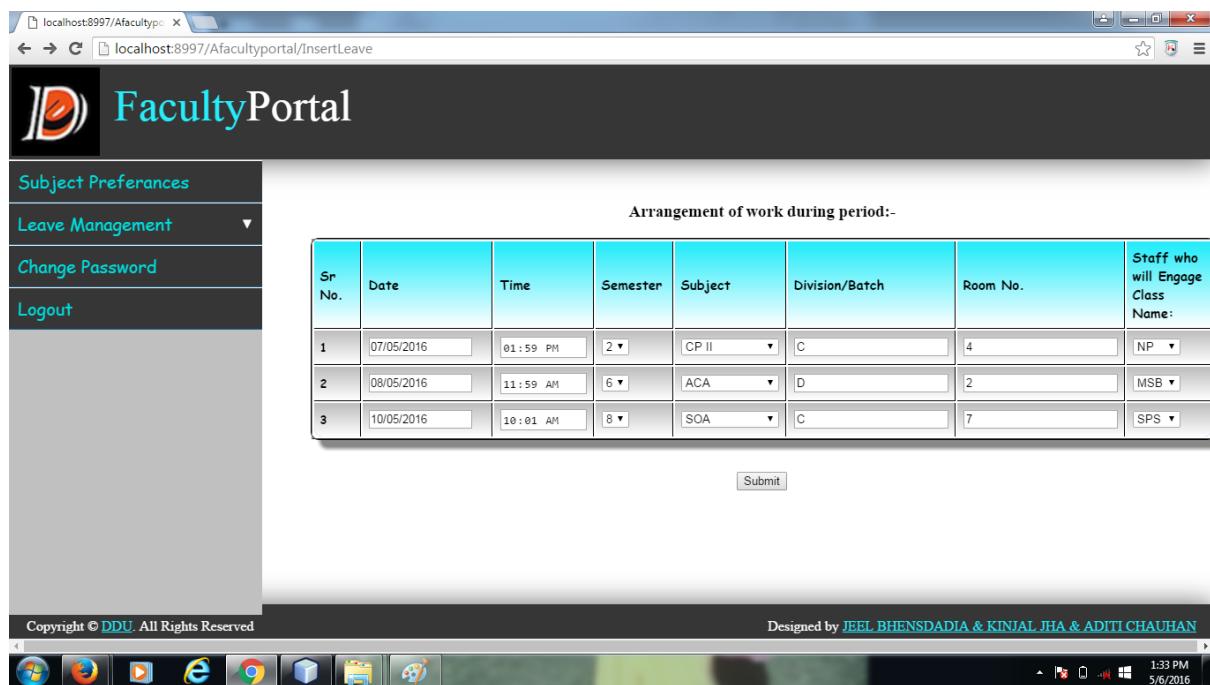
3. Address during leave period:-

4. Load arrangement:
Enter the number of slots you want to allocate:

A "Submit" button is located at the bottom of the form. The footer includes copyright information, a designed-by credit to "JEEL BHENSADIA & KINJAL JHA & ADITI CHAUHAN", and a standard Windows taskbar.



Load Arrangement



Faculty Portal

Show My Leave

The screenshot shows the Faculty Portal interface. On the left, a vertical menu bar includes 'Subject Preferences', 'Leave Management' (which is currently selected), 'Change Password', and 'Logout'. The main content area displays a greeting 'Hello, Bhavika Gambhava' and a message 'Select among the options for your leave history.' It features two radio button options: 'Show All' and 'Select Range', with the latter being selected. Below these are input fields for 'Start Date' (01/04/2016) and 'End Date' (05/05/2016), followed by a 'Submit' button. At the bottom of the page, there is a copyright notice 'Copyright © DDU. All Rights Reserved' and a 'Designed by JEEL BHENSDADIA & KINJAL JHA & ADITI CHAUHAN' along with a system status bar showing the date and time.

The screenshot shows the Faculty Portal interface. The 'Leave Management' option from the menu is selected. The main content area displays a message 'Bhavika Gambhava, you had applied for the following leaves' above a table. The table lists four entries of leave applications:

Sr No	LEAVE TYPE	FROM	TO	NO OF DAYS	REASON FOR LEAVE	ADDRESS DURING LEAVE	REMARK	GENERATE PDF
1	Sick Leave	2016-04-02	2016-04-04	2.0	personal	anand	Not Good	<input type="button" value="Print"/>
2	Duty Leave	2016-04-02	2016-04-04	2.0	social	ahmedabad	Not Good	<input type="button" value="Print"/>
3	Casual Leave	2016-04-24	2016-04-26	2.0	social	nadiad	none	<input type="button" value="Print"/>
4	Casual Leave	2016-05-04	2016-05-08	4.0	social	australia	none	<input type="button" value="Print"/>

At the bottom of the page, there is a copyright notice 'Copyright © DDU. All Rights Reserved' and a 'Designed by JEEL BHENSDADIA & KINJAL JHA & ADITI CHAUHAN' along with a system status bar showing the date and time.

Faculty Portal

DDU portal localhost:8997/Afacultyportal/GenerateMyPDF

FacultyPortal

- Subject Preferences
- Leave Management
- Change Password
- Logout

DHARMSINH DESAI UNIVERSITY
College Road Nadiad-387001
File No. _____
Prof. Bhavika Gambhava
Associate Professor
Computer Engineering (Grant In Aid/Self Finance) (Permanent/Ad-hoc/Fix)
2016-04-02 to 2016-04-04 No Of Days:- 2.0
Reason of leave: personal
Address during leave period: anand
Arrangement of work during period

Date	Time	Semester	Division/ Batch	Room No.	Subject	Staff member who will Engage Class Name Signature
2016-04-02	12:00:00	5	c2	2	SE	PHD
2016-04-03	13:00:00	6	d2	5	OS	BSB

Kindly sanction my leave and oblige

Signature of the applicant

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Print Cancel

Total: 1 sheet of paper

Print Change...

Destination: doPDF v7

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

Copies: 1

Layout: Portrait

Color: Color

More settings

Print using system dialog... (Ctrl+Shift+P)

DDU portal Untitled

about:blank

Print

Total: 1 sheet of paper

Print Cancel

Destination: doPDF v7

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

Copies: 1

Layout: Portrait

Color: Color

More settings

Print using system dialog... (Ctrl+Shift+P)

DHARMSINH DESAI UNIVERSITY
College Road Nadiad-387001
File No. _____
Prof. Bhavika Gambhava
Associate Professor
Computer Engineering (Grant In Aid/Self Finance) (Permanent/Ad-hoc/Fix)
2016-04-02 to 2016-04-04 No Of Days:- 2.0
Reason of leave: personal
Address during leave period: anand
Arrangement of work during period

Date	Time	Semester	Division/ Batch	Room No.	Subject	Staff member who will Engage Class Name Signature
2016-04-02	12:00:00	5	c2	2	SE	PHD
2016-04-03	13:00:00	6	d2	5	OS	BSB

Kindly sanction my leave and oblige

Signature of the applicant

Leave applied for his recommended Arrangement is made for his work during his absence as shown above

Not Good

Head of the Department

FOR OFFICE USE ONLY
9 Date Of Joining: _____
10 Balance Of Leave: _____
Privilege Leave: _____ Sick Leave: _____ Casual Leave: _____
Date: _____

VICE CHANCLLOR

Print Change...

Total: 1 sheet of paper

Print using system dialog... (Ctrl+Shift+P)

Leave Management

HOD All Leave Page

localhost:8997/Afacultyportal/PendingLeave

Pending Leave Requests										
Sr No	NAME	LEAVE TYPE	DATE	FROM	TO	NO OF DAYS	APPROVE	REJECT	PENDING	REMARK
1	Siddharth Shah	SL	2016-02-27	2013-02-16	2014-02-16	1.0	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	none
2	Siddharth Shah	CL	2016-03-02	2016-06-20	2016-06-22	2.0	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	none
3	Siddharth Shah	CL	2016-03-02	2016-05-23	2016-05-25	2.0	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	none
4	Siddharth Shah	CL	2016-03-02	2016-05-23	2016-05-24	1.0	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	none
5	Bhavika Gambhava	CL	2016-05-06	2016-05-07	2016-05-10	3.0	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	none
6	Bhavika Gambhava	CL	2016-05-06	2016-05-07	2016-05-10	3.0	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	none
7	Bhavika Gambhava	CL	2016-05-06	2016-05-07	2016-05-10	3.0	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	none
8	Bhavika Gambhava	CL	2016-05-06	2016-05-07	2016-05-10	3.0	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	none

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localhost:8997/Afacultyportal/PendingLeave

1:39 PM 5/6/2016

JSP Page

localhost:8997/Afacultyportal/UpdateStatus

Updated Leave Status								
Approved leave								
Sr No	NAME	LEAVE TYPE	DATE	FROM	TO	NO OF DAYS	REMARK	GENERATE PDF
1	Siddharth Shah	CL	2016-03-02	2016-05-23	2016-05-24	1.0	Not Good	<input type="button" value="Print"/>

Pending leave								
Sr No	NAME	LEAVE TYPE	DATE	FROM	TO	NO OF DAYS	REMARK	GENERATE PDF
1	Siddharth Shah	SL	2016-02-27	2013-02-16	2014-02-16	1.0	Not Good	<input type="button" value="Print"/>
2	Siddharth Shah	CL	2016-03-02	2016-06-20	2016-06-22	2.0		<input type="button" value="Print"/>
3	Siddharth Shah	CL	2016-03-02	2016-05-23	2016-05-25	2.0	Not Good	<input type="button" value="Print"/>

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localhost:8997/Afacultyportal/UpdateStatus

1:40 PM 5/6/2016

Leave History

Leave History

Leave Management

- Apply For Leave
- View all Leave
- Leave History**
- Show My Leave
- Reset Leave

Change Password

Logout

Enter the details according to the requirements

Employee Name:

Leave Type:

Enter The Range:

From: To:

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empHistory

Leave Management

Sr No	USER NAME	FROM	TO	NO OF DAYS	REASON FOR LEAVE	ADDRESS DURING LEAVE
1	Siddharth Shah	2016-04-08	2016-04-10	2.0	antisocial	ahmedabad
2	Siddharth Shah	2016-04-05	2016-04-06	1.0	personal	america
3	CK Bhensdadia	2016-04-03	2016-04-04	1.0	social	jamnagar
4	CK Bhensdadia	2016-04-03	2016-04-04	1.0	social	jamnagar
5	Bhavika Gambhava	2016-04-24	2016-04-26	2.0	social	nadiad

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A screenshot of a Windows desktop. In the foreground, a print dialog box from 'ddu portal' is open, showing settings for printing '2 sheets of paper'. The background shows a table titled 'Leave' with columns: Sr No, USER NAME, FROM, TO, NO OF DAYS, REASON FOR LEAVE, and ADDRESS DURING LEAVE. The table contains five rows of data.

Sr No	USER NAME	FROM	TO	NO OF DAYS	REASON FOR LEAVE	ADDRESS DURING LEAVE
1	Siddharth Shah	2016-04-08	2016-04-10	2.0	antisocial	ahmedabad
2	Siddharth Shah	2016-04-05	2016-04-06	1.0	personal	america
3	CK Bhensadia	2016-04-03	2016-04-04	1.0	social	jumnagar
4	CK Bhensadia	2016-04-03	2016-04-04	1.0	social	jumnagar
5	Bhavika Gambhava	2016-04-24	2016-04-26	2.0	social	nadiad

Reset Leave

A screenshot of a web browser window titled 'ddu portal' showing the URL 'localhost:8997/Afacultyportal/updateleave.jsp'. The page features a logo and the text 'FacultyPortal'. On the left, a sidebar menu includes 'Subject Preferences', 'Leave Management' (selected), 'Apply For Leave', 'View all Leave', 'Leave History', 'Show My Leave', 'Reset Leave', 'Change Password', and 'Logout'. The main content area displays a confirmation message: 'Are you sure you want to update leave for the new year.' with 'Yes' and 'No' radio buttons, and a 'Submit' button. At the bottom, it says 'Designed by JEEL BHENSADIA & KINJAL JHA & ADITI CHAUHAN'.

Change Password

The screenshot shows a web browser window titled "DDU Portal" with the URL "localhost:8997/Afacultyportal/change_password.jsp". The page header features a logo with a stylized "D" and "F" and the text "FacultyPortal". A navigation menu on the left includes "Subject Preferences", "Leave Management", "Change Password" (which is highlighted in blue), and "Logout". The main content area displays a message "Hello, Bhavika Gambhava" and a "Change Password:" form. The form contains three input fields: "Current Password", "New Password", and "Confirm New Password", each preceded by a label and a colon. Below the fields is an "OK" button. At the bottom of the page, there is a copyright notice "Copyright © DDU All Rights Reserved" and a "Designed by JEEL BHENDADIA & KINJAL JHA & ADITI CHAUHAN" followed by a row of small application icons.

DDU Portal

localhost:8997/Afacultyportal/change_password.jsp

Hello, Bhavika Gambhava

Change Password:

Current Password :

New Password :

Confirm Password :

OK

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Designed by JEEL BHENDADIA & KINJAL JHA & ADITI CHAUHAN

1:37 PM 5/6/2016

Chapter7

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 facultywise/slotwise/subjectwise.
- 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.

Chapter8

Limitations and Future Extensions

Limitations:

- In FP, css3 and html5 is used and so it will work properly in chrome browser. Specifically it will not work in Mozilla Firefox.
- On resizing the browser, the GUI gets disturbed.

Future Extensions

- To add a new faculty in the FP, admin will add faculty details through an interface thus admin do not need to enter the details directly to the database.
- In leave management module, we shall include that the faculty who is allotted load of other faculty on leave can give his/her concern on allotment, and he/she is given right to either accept or reject the load allotment.
- In subject preference module we shall include the functionality of admin allocating lab and lectures to respective faculties after they have preferred the subjects.

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