

LOAD LESSLABS.com

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Internal guide

Prof. Drashti Baldev

CERTIFICATE

GOVERNMENT POLYTECHNIC FOR GIRLS



This is to certify that Ms.**Shikha G. Chauhan** having Enrolment No:**156140307015** has completed Report on the Semester V Project having title **LOADLESSLABS** Individually/ in a group consisting of three persons under the guidance of the Faculty Guide **Drashti S. Baldev**.

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ACKNOWLEDGEMENT

Without taking help from all those brilliant people, it would not have been possible to complete this enormous project and to make our intension of doing something good for the department a success. So we take this opportunity to thank all of them who help us directly and indirectly to make this dream come true.

We are grateful to our guide Drashti Baldev for her prolonged in our work and excellent guidance. She has been a constant source of motivation to us providing us with suitable media performance , a platform to show our potential and chance to prove our skills by the way of project development.

We would also like to thank Mr.R.M.Shaikh of computer department allowing us to take this project and give our dream a way. We are sincerely thankful to him for his time to time and valuable guidance during the training period. We are also thankful to our family members for providing mental strength during our project preparation sincerely.

Thanking all from,

Sharan Chhugani
Shikha Chauhan
Vishwa Shah

PROBLEM ABSTRACT

The present system for evaluating the practicals and assignments is completely manual. This makes the entire process very tedious and tough as well as time consuming for both students and faculties.

Students spent most of their time in writing down assignments and practicals instead of investing their time in doing practicals which would benefit them with skills due to overload of writing work.

A became a habit for students to copy their work because of the manual file system. Also it was very difficult for the faculty to review each student progress individually due to the file system.

Till now the circulars were simply put on the notice board and no proper announcements were made.

So if the manual file system would be taken online in the form of website (Loadlesslabs.com) all the major issues would be solved.

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CHAPTER 1

INTRODUCTION OF THE INDUSTRY



BRIGHT INFO SOLUTIONS

- ❖ Bright info solution is one of the leading IT offshore software out sourcing company from India based in Ahmedabad which aims for Quality and a variety of web development services at an affordable price. It has been fastest growing IT outsourcing company with an increasing talent pool of rich and experienced project managers, skilled software engineers, creative website designers with an adequate industry knowledge to deliver maximum quality custom web applications on time.
- ❖ Combining expertise in technology, and an understanding of emerging business trends, bright info solution delivers a range of development solutions that includes

1. Business Solutions
2. Enterprise Applications
3. Professional Web Site Design
4. Development on Linux / UNIX
5. Embedded & Digital Design

❖ Works On Following Technologies: -

- | | |
|-----------------------|--------------|
| - Asp .NET | - SQL Server |
| - Java Technologies | - PHP |
| - Mobile Technologies | - Joomla |
| - MVC | - WordPress |

CHAPTER 2
Literature Survey

-There are some systems which are similar to our system.
This chapter describes their features and upgradation.

❖ Manual system



Present manual system is file based and increases the writing work load of students.

❖ Features

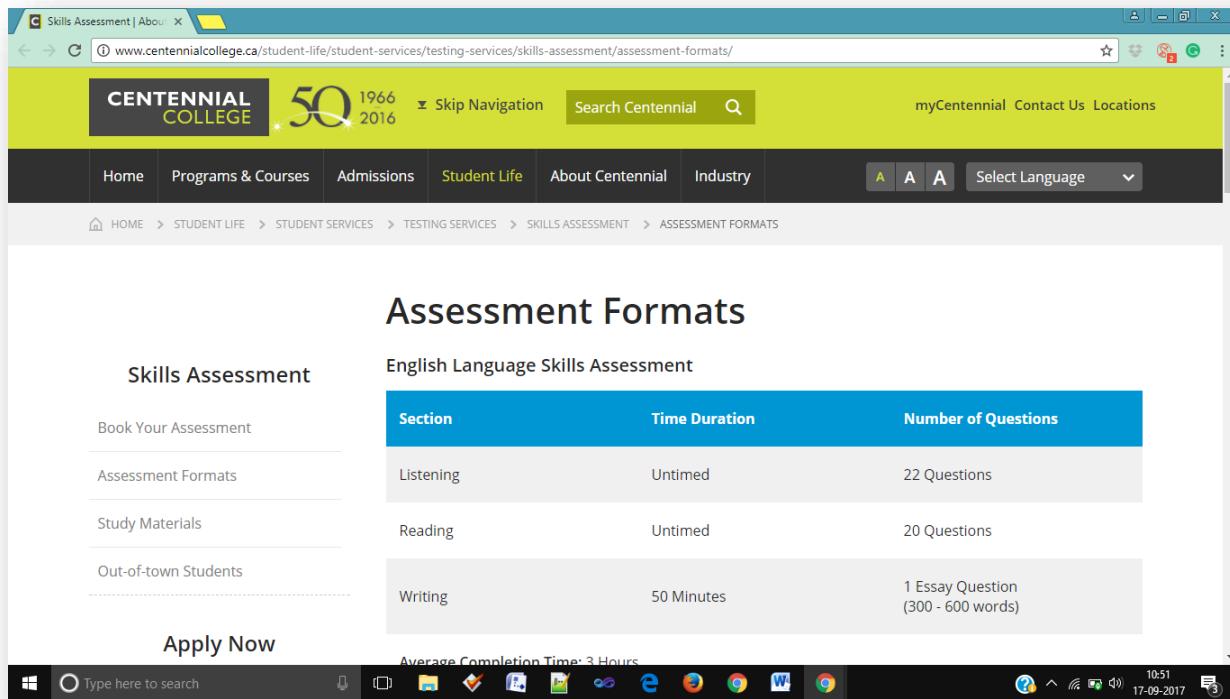
- Files are maintained.
- Assessment is done manually.
- Students have to write all the practical and assignments.
- Submit them in viva.

❖ Upgradation

- Files will be maintained online.
- Writing work load will be decreased.
- Assessments will also be done online.
- Backup of student's work will be maintained.

There are some sites that handle the work of the whole institute. As they do all the work, the assessment part only includes college papers and nothing else. Here is one example like those web applications of ‘Centennial College’.

❖ Centennial College



The screenshot shows a web browser displaying the Centennial College website. The header features the college's name, a '50' logo, and links for Skip Navigation, Search Centennial, myCentennial, Contact Us, and Locations. The main navigation menu includes Home, Programs & Courses, Admissions, Student Life, About Centennial, Industry, and a language selection dropdown. Below the menu, a breadcrumb trail shows the path: HOME > STUDENT LIFE > STUDENT SERVICES > TESTING SERVICES > SKILLS ASSESSMENT > ASSESSMENT FORMATS. The main content area is titled 'Assessment Formats' and specifically mentions 'English Language Skills Assessment'. It includes a table detailing the sections, time duration, and number of questions:

Section	Time Duration	Number of Questions
Listening	Untimed	22 Questions
Reading	Untimed	20 Questions
Writing	50 Minutes	1 Essay Question (300 - 600 words)

An 'Apply Now' button is visible at the bottom left of the content area. The Windows taskbar at the bottom shows various pinned icons and the date/time as 17-09-2017 10:51.

❖ Features

- Assessment is done online.
- Details are provided.
- Study material is provided on website.
- Admission process is maintained.

❖ Upgradation

- Provides assessment of practical and assignments of labs and not just question papers.
- Circulars will be made available.
- It will be particular to a department.

CHAPTER 3

Problem Identification and Definition

❖ Problems with current systems:

The current system in collages, as we know, is totally depended on files.

- Student has to perform the entire practical first and then write down them in files to get them assessed with the faculty. This system is time consuming and there is big possibility of student copying one another's work.
- There is no record generated at the end of the semester of every student for faculty's convenience.
- The circulars about important things are not able to reach to every student in the department.
- Practical and assignments given by faculty earlier are not been recorded and cannot be retrieved.
- The big disadvantage of this system is that the files might be lost and the pages can get torn.

There are assessments websites online which gives us the facility to get the papers assessed but they also cannot get the whole department checked and they also require money.

- ## ❖ LOADLESSLABS is the project which resolves all the major issues. It provides facility to save all the work and the grades online. It also gives the facility of passing the circulars online as well it keeps all the records of the student's grades and all the practical lists.

CHAPTER 4

DETAILED DESCRIPTION OF PROBLEM

- ❖ As we have seen, the file system is in use mostly.
- ❖ This chapter discusses the major problems of the system.

❖ Maintenance

The practical are written by the students in file pages in the file system. These files are hard to maintain. There are possibilities of file getting lost or pages getting torn.



❖ Copying the work

In the file system, the students can copy the work of some other student and not perform the work by his/her own. Even the faculties are not aware of the situation and the student can get their work checked.

❖ Circulars:

The circulars in collage are passed either on the notice board or by the class representatives. Not all the students check the board every day and representatives might not be able to pass on the messages on time



Passing the message also creates confusion as the message might not be passed fully and there might be questions from student about the circulars.

❖ **Records:**

In the file system, there are no reports generated at the end of the semester. The faculty gives the grades to each practical or assignments on which's bases the final grades of the semester are given. Because of no records they have to go through all the file work of the semester.



❖ **Getting the practical lists:**

The practical lists are not always given to students in advance by the faculties. In some cases the students have to go to the faculties and get some of the next practical. And the students have to make their own index manually.



CHAPTER 5
EXPECTED IDP RESULT

5.1 PROPOSED SYSTEM

We try to propose a system (LOADLESSLABS) which will solve all the major issues in the current manual system. The practical and assignment will be submitted online which will force each student perform them individually. Also records will be maintained and circulars will be provided.

5.2 FEATURES OF THE SYSTEM

- ❖ **LOADLESSLABS** is the project which overcomes most of all the major issues of the file system which is going on in the colleges right now.

❖ Profiles

The user will be asked to create the profile first. There are three roles for the profile: Admin, Faculty and Student. Students will be submitting their work and Faculty will assess the work of the student. Admin will be handling the system. Everyone will be saving their work in their profiles.

❖ Online editor

The projects provides the online text areas in which student can write the answers of their assignments. The student will be able to save and submit their work. The faculty will also be able to know that how many students have submitted.

❖ Online assessment

Once the student submits the work, the faculty will be able to assess their individual work online. They are also given the privilege to grade the individual student.

❖ Records

When the faculty will give the grade to the assignment and practical work, it will be saved directly in the student's grade history. Every student has their own history which is helpful to faculty and student to keep track of their work.

❖ **Circulars**

The faculties and the admin will be able to get the circulars uploaded on the site. The circulars will be shown on the home page of the site. By uploading the circulars on the site, will be convenient for students as all will be able to see them.

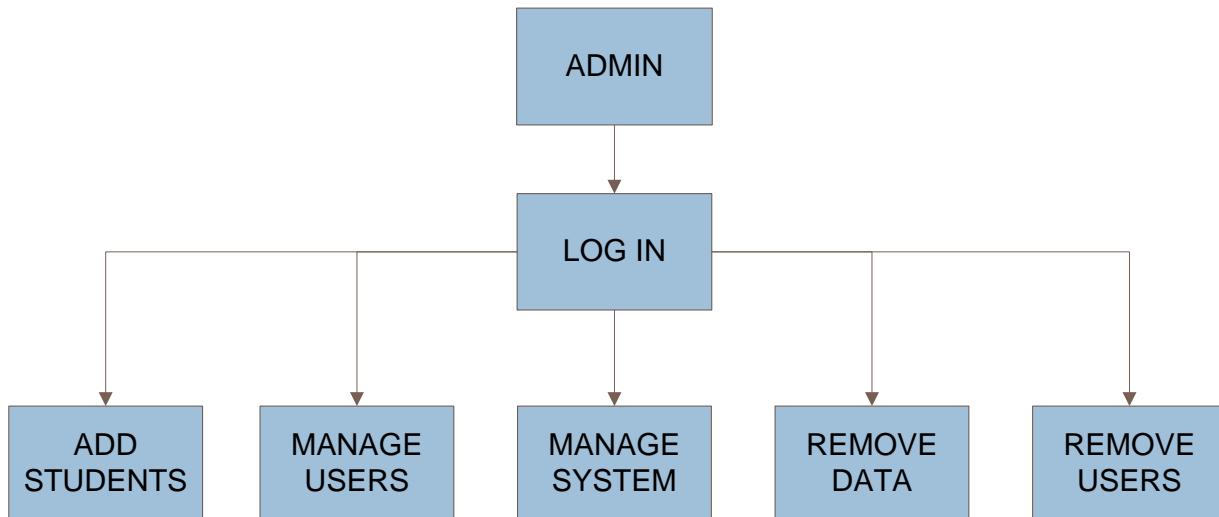
5.3 MODULES

❖ Login/Registration

The users will be registered by the HOD using their Gmail id and will students will change their id and password while first login. Later on the login will be done using the new id and password and by the id, system will define the roll and the user's privileges.

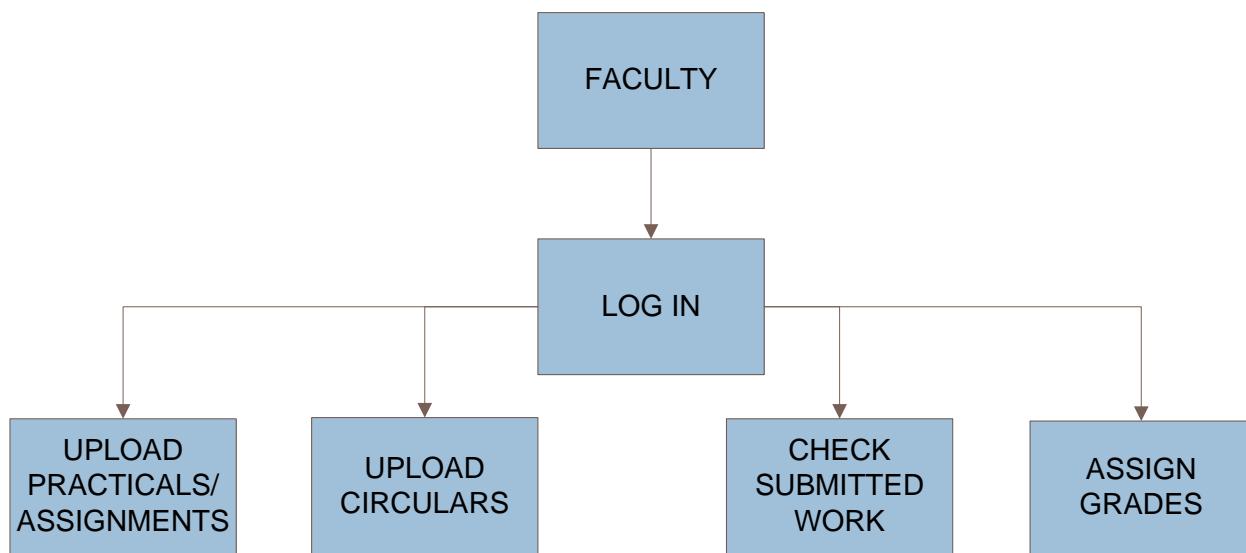
❖ Admin

The HOD of the department will handle this module as it will possess the supreme privileges. It will be his duty to add faculties and students by registering them with their email id. Deleting particular user will also come under his privileges. Its main function will be to maintain the website and sole issues if any.



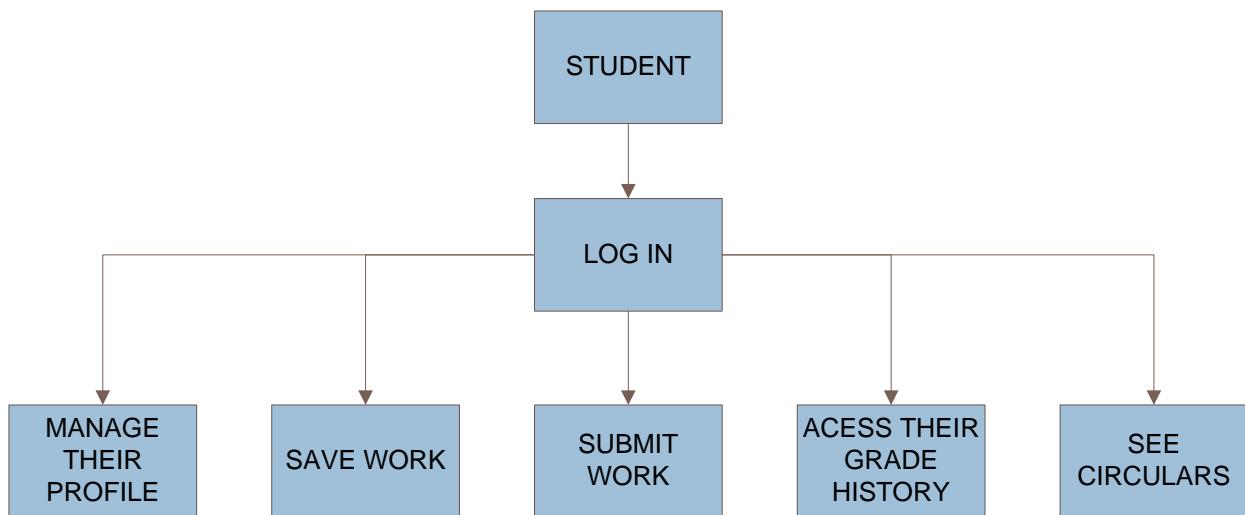
❖ Faculty

- ❖ All the faculties will upload the assignments in file formats which will appear with editors to students. After uploading their practicals the faculties will assess them and assign grades.
- ❖ Also the faculty will have its own profile maintained.



❖ Student

- ❖ Students will be the end users of the system. They will login using their id and password. All the subjects' practical and assignments along with the required editors will be provided to them.
- ❖ They will submit their code or text and it will be accessed by the faculty. Each student will have its profile to view the work.

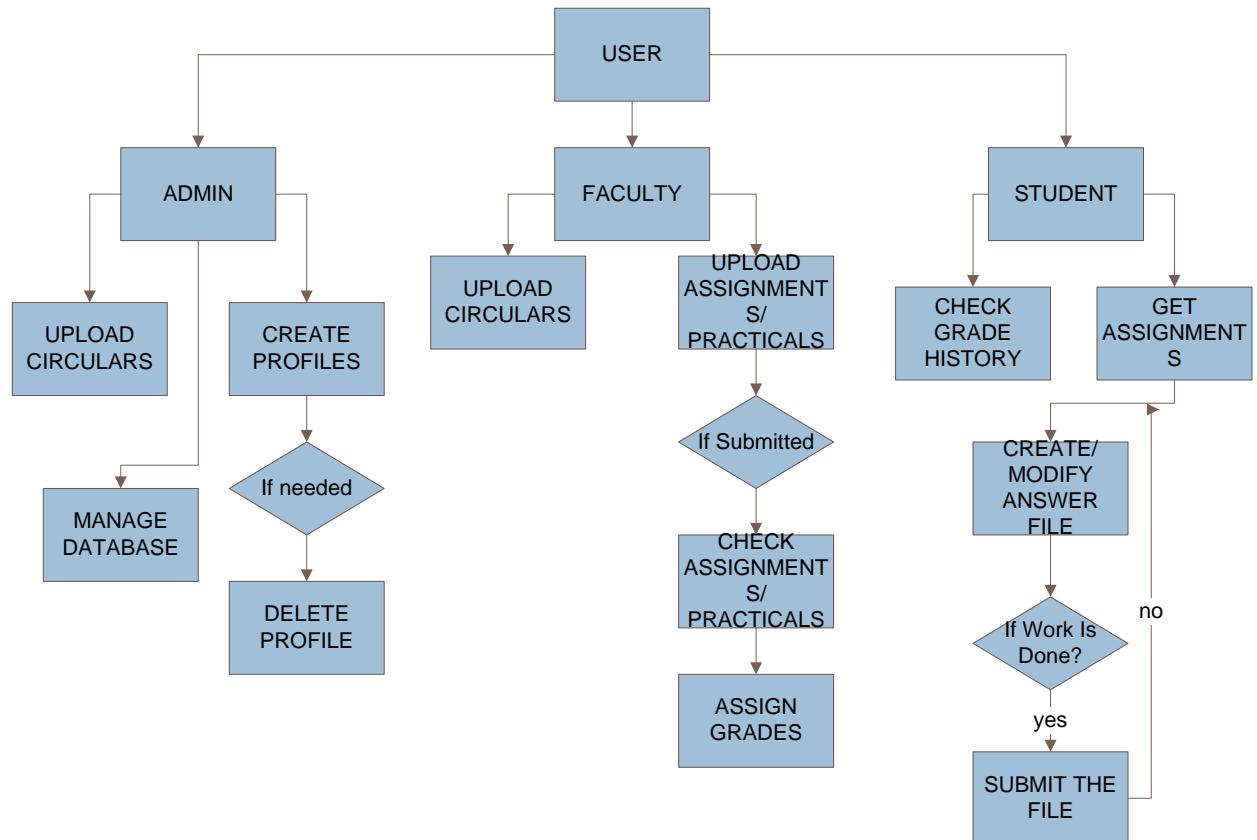


5.4 WORKING FLOW OF THE SYSTEM

DESCRIPTION:

- ❖ The system when entered asks for the login id and password in order to access the system.
- ❖ For the first login the id will be the Gmail id and there a system generated password sent to the student via mail. Later on the student will need to change the id, password for security and ease.
- ❖ After login, the system defines the role of the user whether it is an admin, faculty or student and gives privileges accordingly.
- ❖ If the user is a student, it can select from subjects and enter to the assignments and practical modules for each subject separately. He / She can submit solutions till the last submission date and check for grades later on. It can view circulars.
- ❖ If the user is a faculty, it can see which subjects it takes and enter to the submitted assignments and practical of each student in his/her lab. It can assess them and give grades. Also can use the record in the viva sessions to know the students work throughout the sem. also the faculty can upload the circulars.
- ❖ If the user is admin, it can add new users as faculty or students. It can manage all the profiles and can review all the work going on in the system. It has the highest privilege in the system and can delete any profile if required.

WORKING FLOW OF THE SYSTEM:



5.5 FRONT-END & BACK-END

❖ Front End System

The front end is responsible for collection of input in various forms from the user and processing it to confirm to a specification the back end can use. The front end works as an interface between the user and back-end.

- ❖ The **Front-end** for this application: java Netbeans, Java Server Pages.
- ❖ Using java programming language as front-end provides greater security and has good database connectivity.

❖ Back End System:

It is also known as the support component of computer system. It typically refers to the database management system, which is the storehouse for the data.

Basically back and is the system at which the database or say data is store which is manipulate by the user though the front end.

- ❖ The **Back-end** for this application: Oracle database.
- ❖ In Oracle, Backup and recovery procedures protect your database against data loss and reconstruct the data.

CHAPTER 6
PROJECT DESIGN

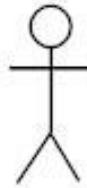
6.1 USECASE DIAGRAMS

A use case diagram is a dynamic or behavior diagram in UML.

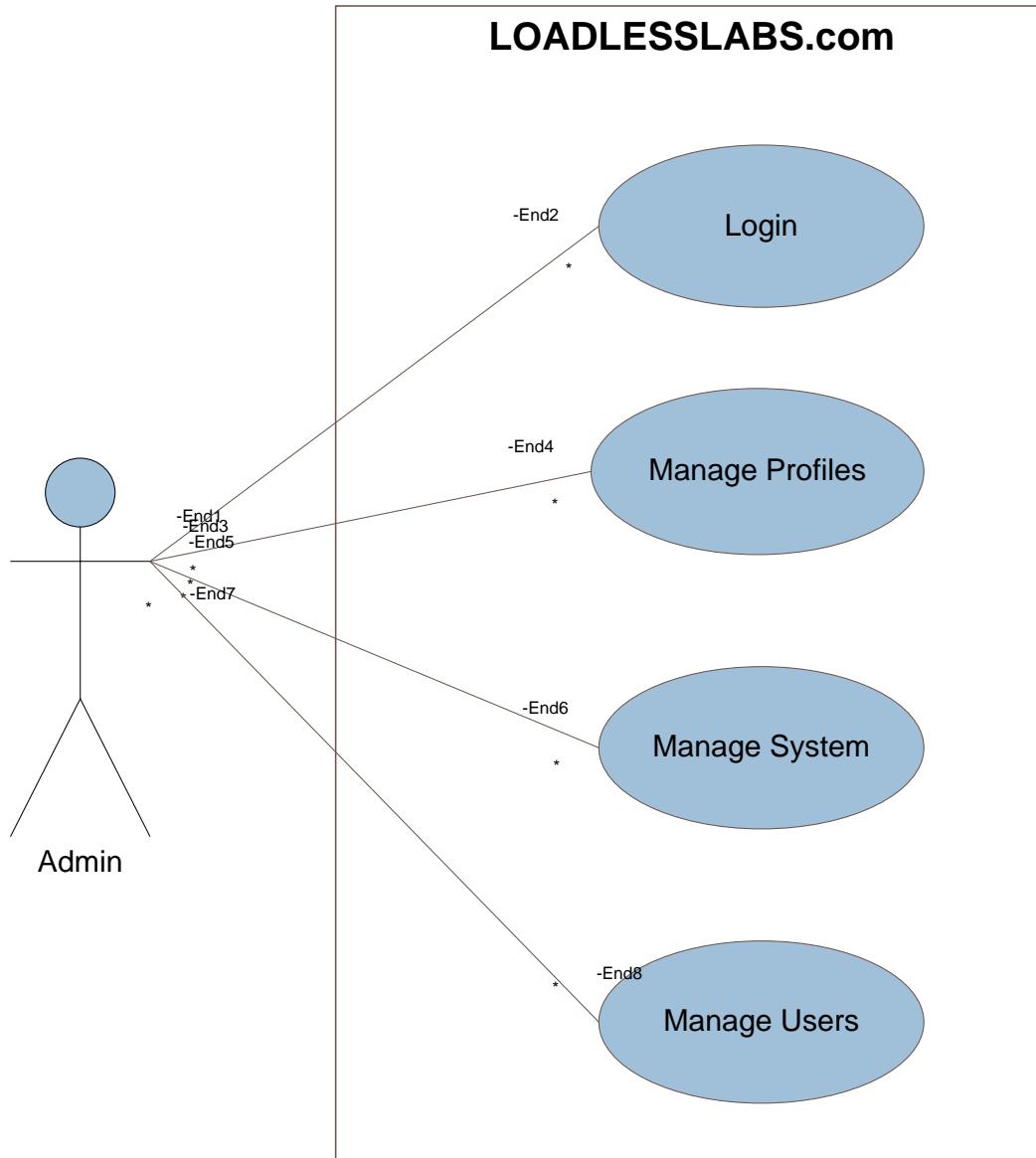
They help identify any internal or external factors that may influence the system and should be taken into consideration.

Use case diagrams specify how the system interacts with actors.

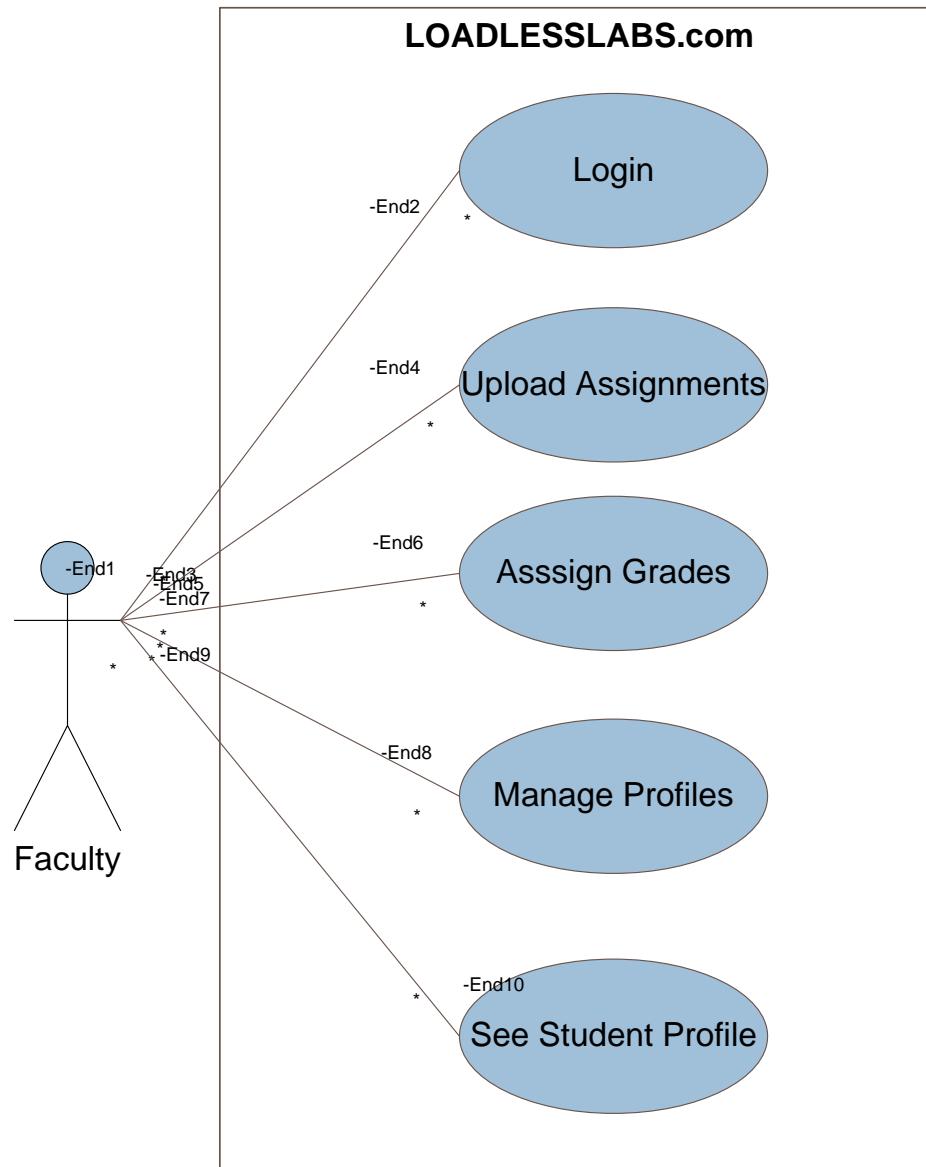
Symbols and Notations:

NAME	DESCRIPTION	SYMBOL
System	The scope of a system can be represented by a system (shape), or sometimes known as a system boundary. The use cases of the system are placed inside the system shape.	
Use case	A use case represents a user goal that can be achieved by accessing the system or software application.	
Actor	Actors are the entities that interact with a system.	
Association	Actor and use case can be associated to indicate that the actor participates in that use case.	

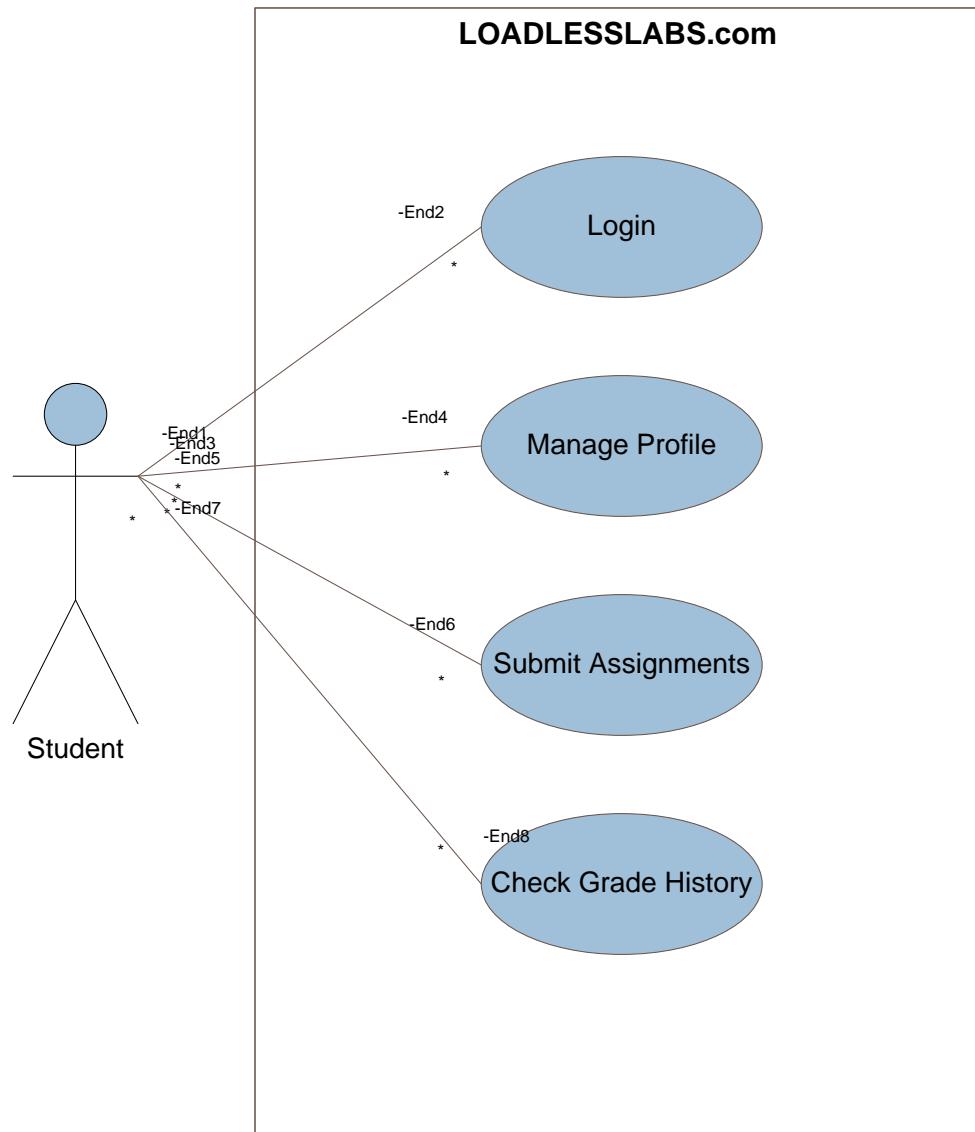
❖ **Admin:**



❖ **Faculty:**



❖ **Student:**

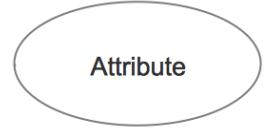


6.2 ENTITY RELATIONSHIP DIAGRAM

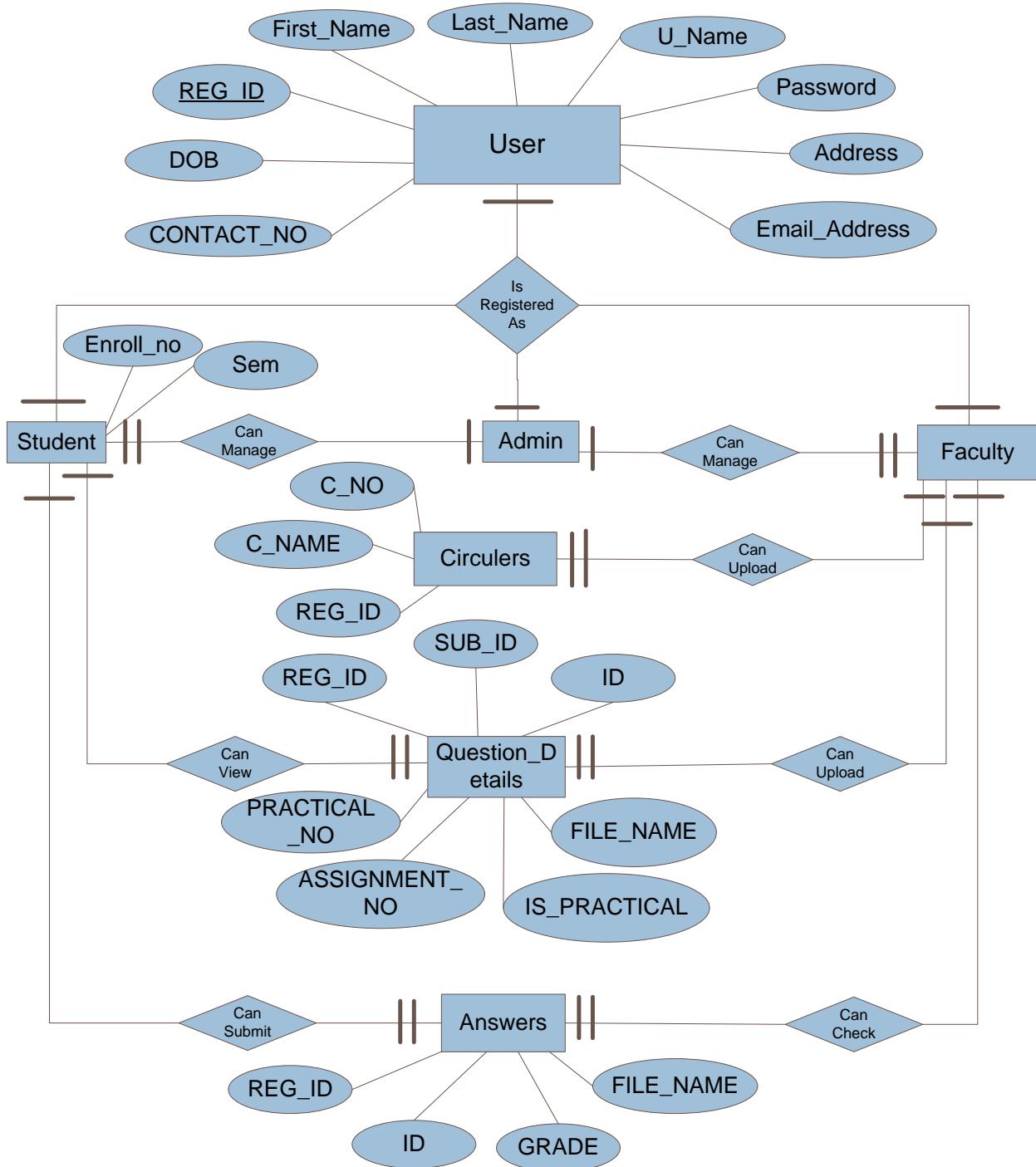
An entity relationship diagram shows the relationships of entity sets stored in a database. An entity in this context is a component of data.

In other words, ER diagrams illustrate the logical structure of databases.

Symbols and Notations:

Shape Name	Symbol Description	Symbol
Entity	An entity is represented by a rectangle which contains the entity's name.	
Attribute	Each attribute is represented by an oval containing attribute's name.	
Relationship	Relationship is represented by a single rhombus.	

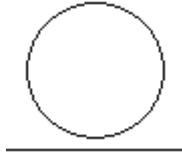
❖ Entity Relationship Diagram Of The System:



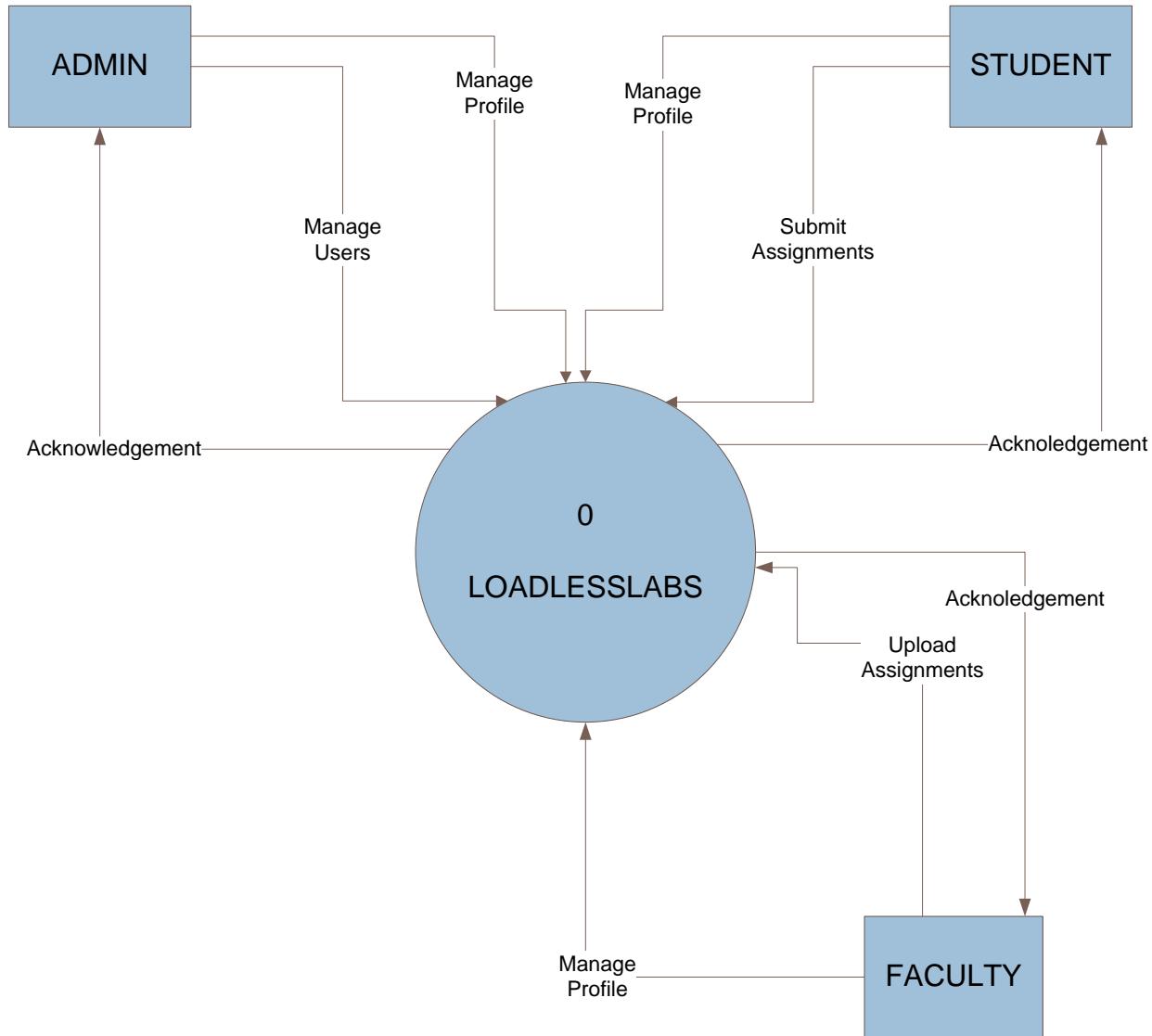
6.3 DATA FLOW DIAGRAM

A data flow diagram (DFD) illustrates how data is processed by a system in terms of inputs and outputs. As its name indicates its focus is on the flow of information, where data comes from, where it goes and how it gets stored.

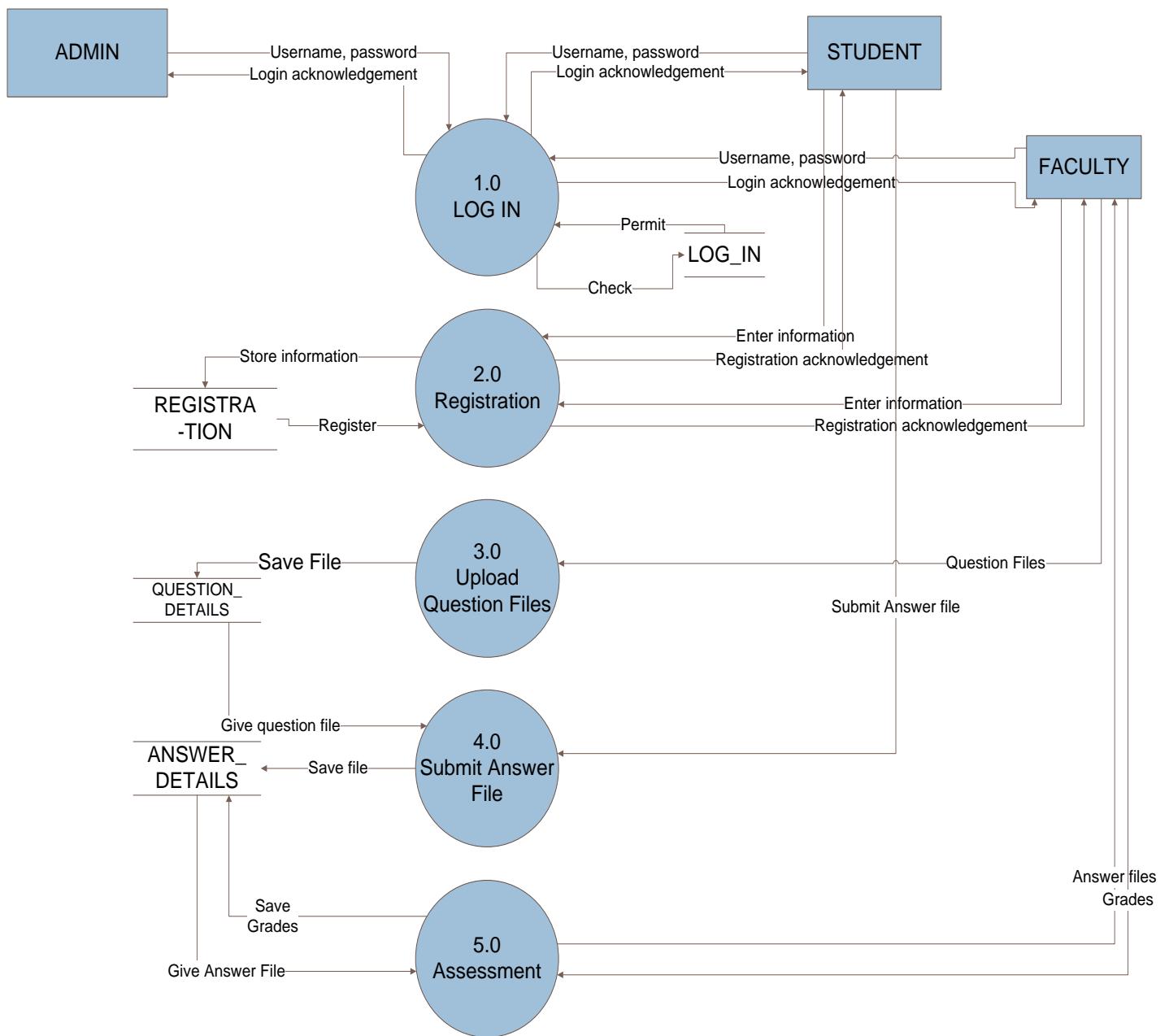
Symbols and Notations:

Name	Description	Symbol
Entity	Entities produce and consume data that flows between the entity and the system being diagrammed.	
Process	A process or task that is performed by the system.	
Data-store	A data store, a place where data is held between processes.	
Data Flow	Data Flows are pipelines through which flow of process is shown.	

❖ **Level 0 DFD of the system:**

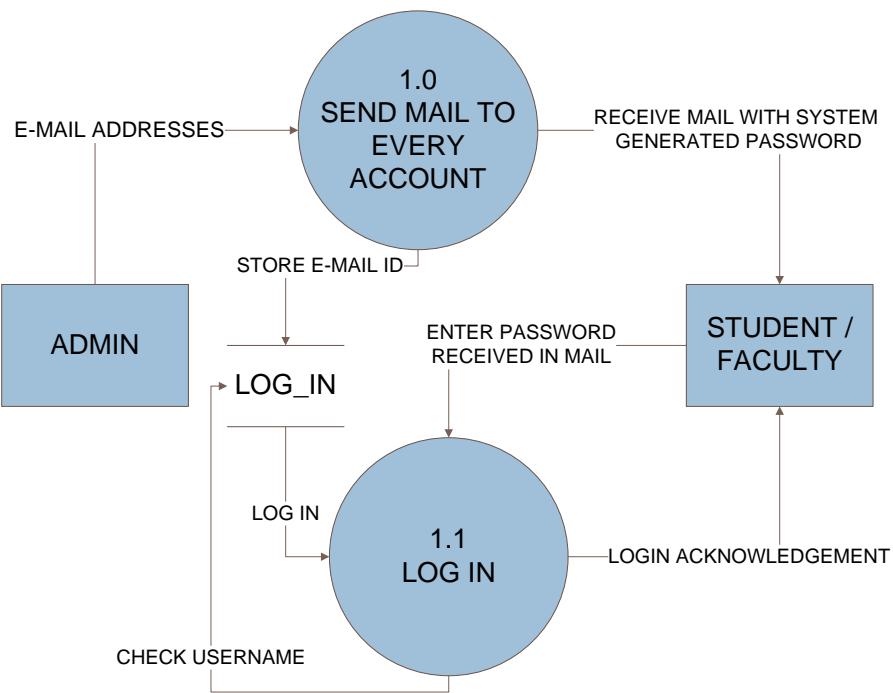


❖ **Level 1 DFD of the system:**

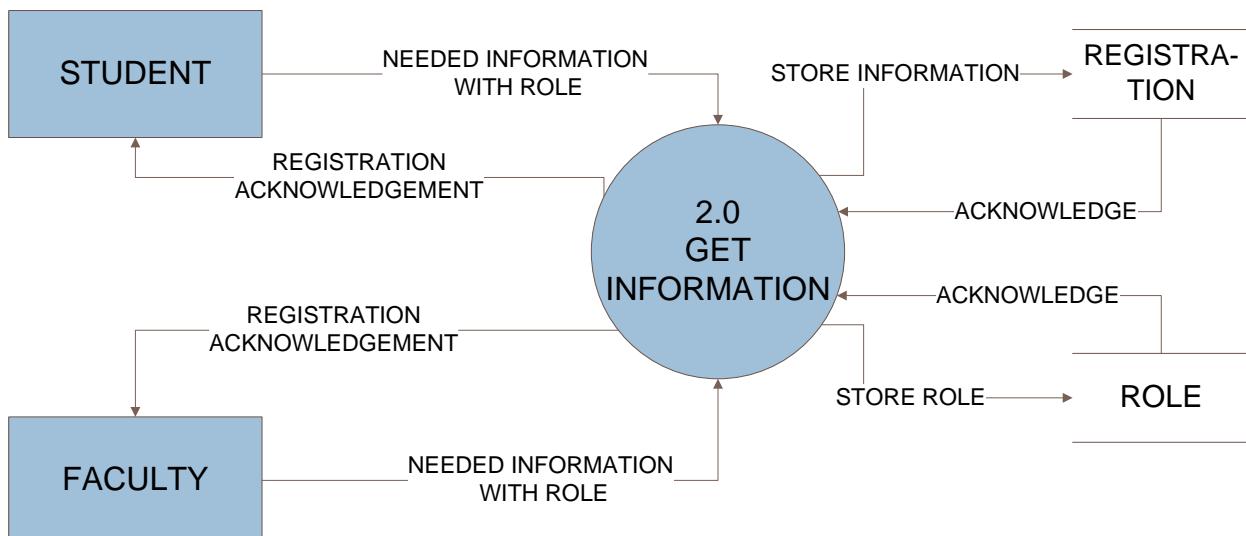


❖ **Level 2 DFD of the system:**

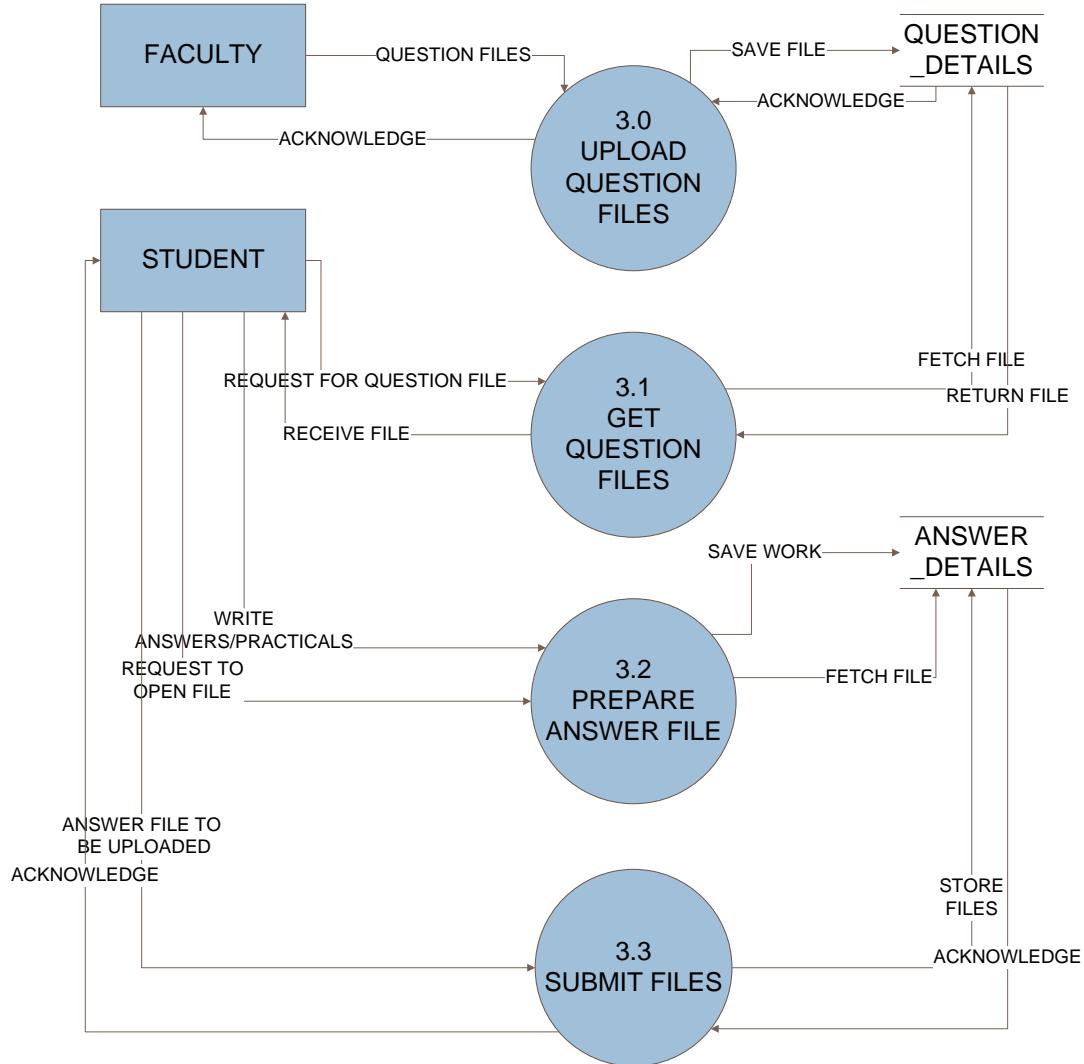
❖ **Log in:**



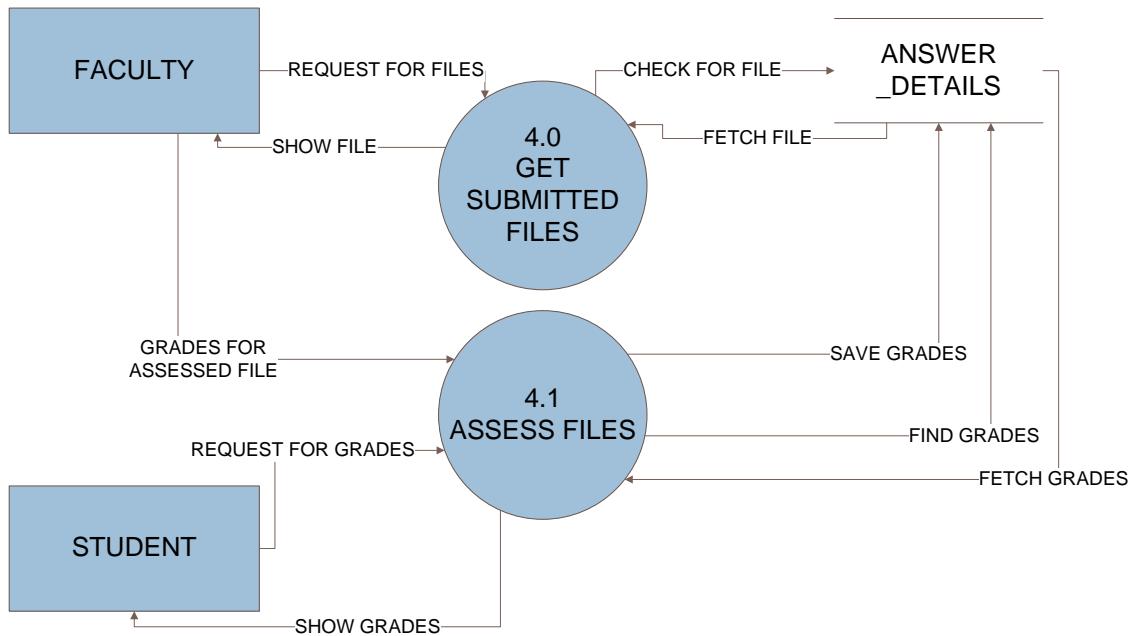
❖ **Registration:**



❖ Upload question files, Submit answer files:



❖ **Assessment:**



DATA DICTIONARY

1) ROLE:

Field	Datatype	Size	Key/Constraint
role_id	Number		Primary key
role_name	Varchar2	10	

2) LOGIN:

Field	Datatype	Size	Key/Constraint
reg_id	Varchar2	30	Primary Key
username	Varchar2	50	Not Null
password	Varchar2	10	Not Null
role_id	Number	1	Foreign Key
Is_changed	Boolean		
is_locked	Boolean		

3) REGISTRATION:

Field	Datatype	Size	Key/Constraint
reg_id	Number	3	-
firstname	Varchar2	15	Not Null
lastname	Varchar2	15	Not Null
username	Varchar2	30	Primary Key
email_address	Varchar2	30	Not Null
contact	Number	10	Not Null
soc	Varchar2	20	-
landmark	Varchar2	30	-
area	Varchar2	15	-
city	Varchar2	20	Not Null

4) ASSIGNMENT:

Field	Datatype	Size	Key/Constraint
assignment_id	Number	-	Primary key
subject_id	Number	-	Not null
reg_id	Number	-	Foreign key
sem	Varchar2	50	Not null
given_date	date	-	Not null
submission_date	date	-	Not null

5) ASSIGNMENT_GRADE:

Field	Datatype	Size	Key/Constraint
assignment_id	Number		Primary key
reg_id	Number		Primary key
grade	Varchar2	2	-

6) ASSIGNMENT_QUESTIONS:

Fields	Datatype	Size	Key/Constraint
assignment_id	Number		Primary Key
question_id	Number		Not Null
question	Varchar2	50	Not Null

7) ASSIGNMENT_QUESTION_ANSWER:

Fields	Datatype	Size	Key/Constraint
assignment_id	Number		Primary Key
question_id	Number		Not Null
answer	Varchar2	50	Not Null
reg_id			

8) PRACTICAL_ASSIGNMENT:

Field	Datatype	Size	Key/Constraint
assignment_id	Number	-	Primary key
subject_id	Number	-	Not null
reg_id	Number	-	Foreign key
sem	Varchar2	50	Not null
given_date	date	-	Not null
submission_date	date	-	Not null

9) PRACTICAL_GRADE:

Field	Datatype	Size	Key/Constraint
assignment_id	Number		Primary key
reg_id	Number		Primary key
grade	Varchar2	2	-

10) PRACTICAL_ASSIGNMENT_QUESTIONS:

Fields	Datatype	Size	Key/Constraint
assignment_id	Number		Primary Key
question_id	Number		Not Null
question	Varchar2	50	Not Null

11) ASSIGNMENT_QUESTION_ANSWER:

Fields	Datatype	Size	Key/Constraint
assignment_id	Number		Primary Key
question_id	Number		Not Null
answer	Varchar2	50	Not Null
reg_id			

12) STUDENT_MASTER:

Fields	Datatype	Size	Key/Constraint
reg_id	Number		Primary Key
enrollment_no	Number		Not Null
semester	Varchar2	50	Not Null

13) SUBJECT:

Fields	Datatype	Size	Key/ constraint
subject_id	Number	5	-
subject_name	Varchar2	20	-

14) CIRCULAR:

Fields	Datatype	Size	Key/ constraint
circular_id	Number	5	-
subject	Varchar2	20	-
description	Varchar2	100	Foreign key

CHAPTER 7

THE OUTLINE OF WORK TO BE CARRIED OUT IN SEM- VI DURING PART-II

❖ THE CORE PART:

The core part of any web application is its coding and internal construction which defines how the software will work under particular events and requests. Without this the software would nearly be an eye candy and would not fulfill its requirements.

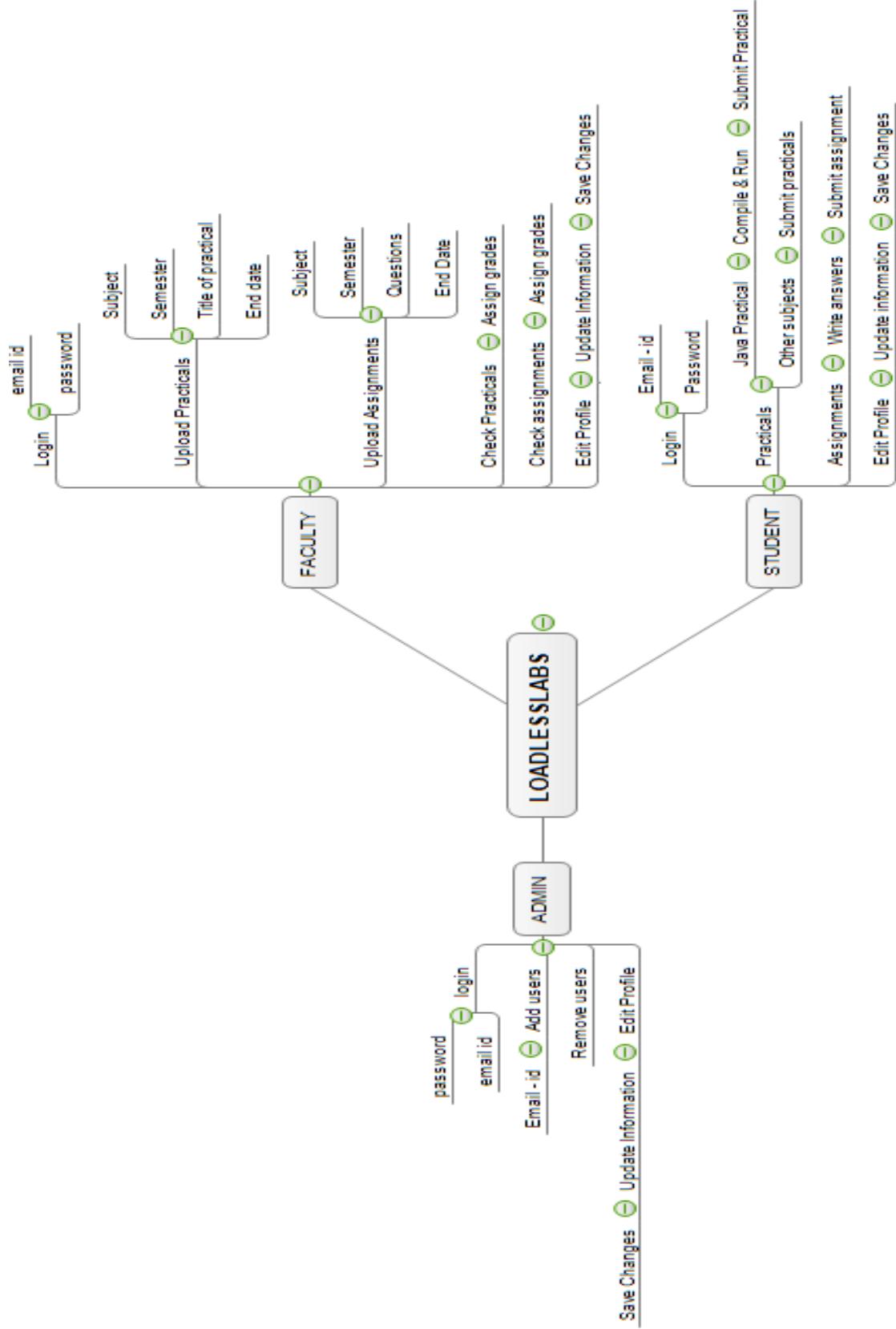
❖ THE WAREHOUSE:

Even if the software has the perfect working and an attractive front end, unless it knows how to manipulate data, it would merely be a one-time run and cannot survive as an independent software. The software warehouse that is a database is a must have.

❖ THE PRESENTATION:

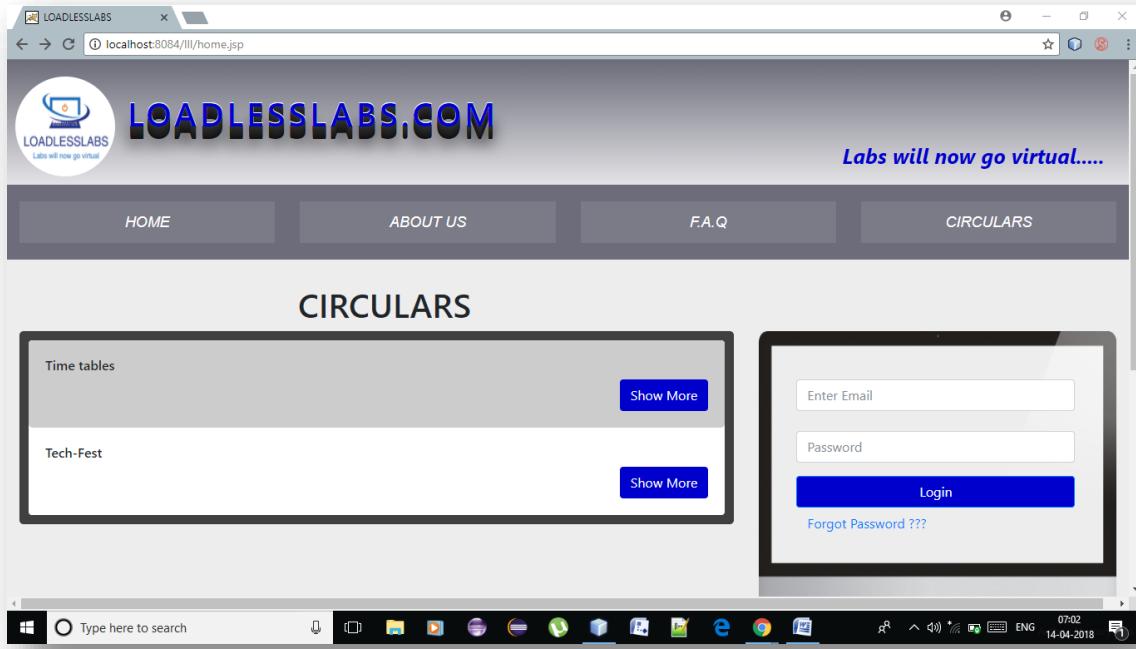
The front end or the user interface presents to the end user the entire software in an easy to understand, working and useful manner.

CHAPTER 8
MIND MAP OF THE PROJECT



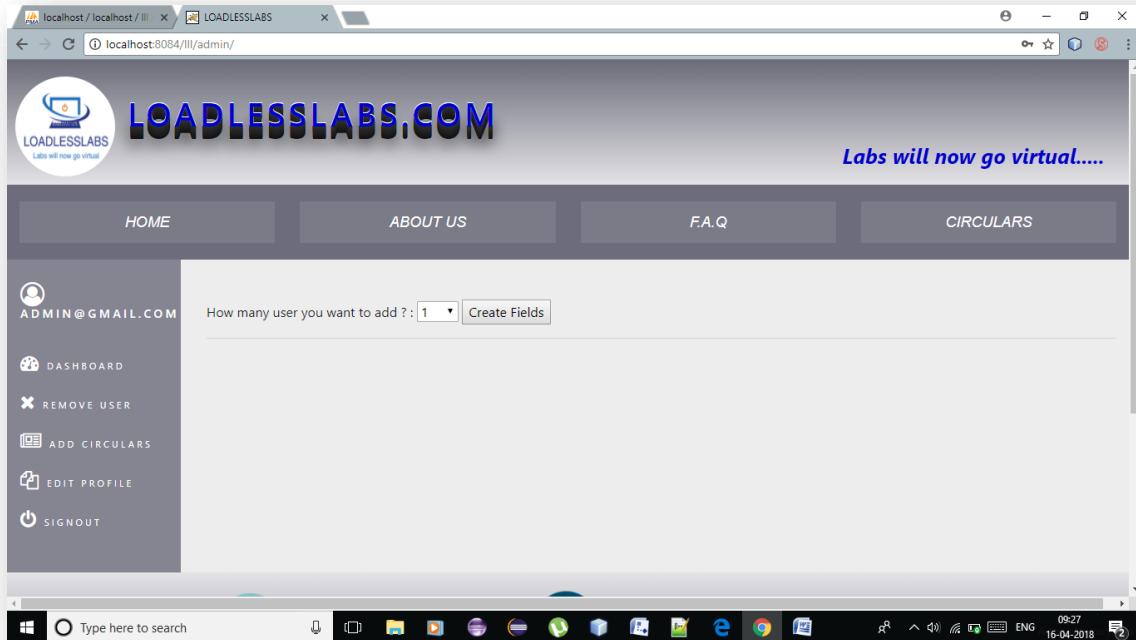
CHAPTER 9
PROJECT IMPLEMENTATION

❖ Home Page:



❖ Admin Panel:

Add Users: The following page asks admin to enter the mail id(s) of user and select their role. A mail on their e-mail id will be sent including computer generated password which will be used by user when they will login for the first time.



❖ Remove user:

The screenshot shows a web browser window titled "localhost / localhost / III" with the URL "localhost:8084/III/admin/removeuser.jsp". The page header includes the "LOADLESSLABS" logo and the tagline "Labs will now go virtual.....". The main menu has links for "HOME", "ABOUT US", "F.A.Q", and "CIRCULARS". On the left sidebar, there are icons for "ADMIN @ GMAIL.COM", "DASHBOARD", "REMOVE USER" (highlighted with a red border), "ADD CIRCULARS", "EDIT PROFILE", and "SIGNOUT". The "All Faculty" section lists one user: "Vishwa Shah" (ID 2) with email "shahvishwa90@gmail.com" and contact "0000000000". A red "Unlock Now" button is present. The "All Students" section lists one user: "Vishwa Shah" (ID 3) with email "vishwadummy123@gmail.com" and contact "0000000000". A blue "Lock Now" button is present. The bottom of the screen shows a Windows taskbar with various pinned icons and system status.

❖ Upload circular:

The screenshot shows a web browser window titled "LOADLESSLABS" with the URL "localhost:8084/III/admin/addcircular.jsp". The page header includes the "LOADLESSLABS" logo and the tagline "Labs will now go virtual.....". The main menu has links for "HOME", "ABOUT US", "F.A.Q", and "CIRCULARS". On the left sidebar, there are icons for "ADMIN @ GMAIL.COM", "DASHBOARD", "REMOVE USER", "ADD CIRCULARS" (highlighted with a red border), "EDIT PROFILE", and "SIGNOUT". The "New Circular" form has fields for "Subject :" (containing "sample circular") and "Description :" (containing "this circular is the sample circular"). A large text area is below these fields. A blue "Upload Circular" button is at the bottom. The bottom of the screen shows a Windows taskbar with various pinned icons and system status.

❖ Edit profile:

LOADLESSLABS

localhost:8084/lil/userprofile

ADMIN@GMAIL.COM

DASHBOARD

REMOVE USER

ADD CIRCULARS

EDIT PROFILE

SIGNOUT

EDIT PROFILE

Email*

admin@gmail.com

First Name:*

admin

Last name:*

admin

User Name:*

admin@gmail.com

Contact No:*

0000000000

Society:*

Enter Society Name

Landmark:*

Enter Landmark

Area:*

Enter Area

City:*

Enter City

SAVE CHANGES

❖ Faculty panel:

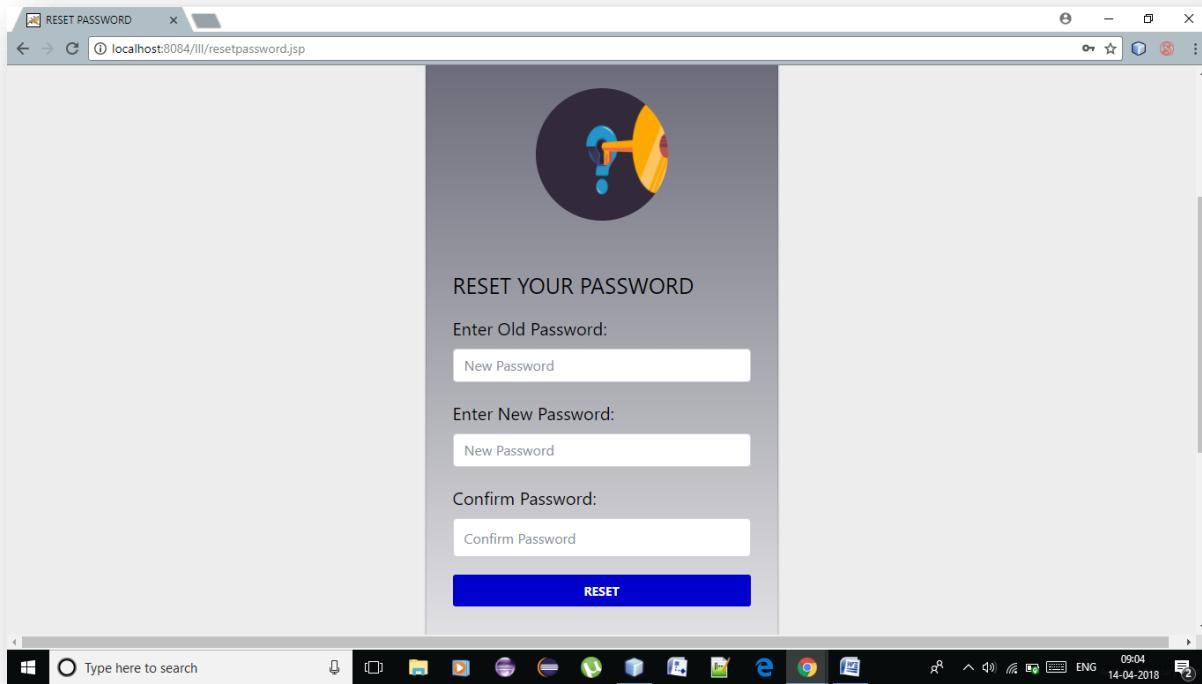
The mail received by the user:

If you are logging for first time, enter the following password.

Username : shahvishwa90@gmail.com
Password : 92fa24

After logging in with this password you will be asked to register yourself.
Then you will be asked to enter the password of your choice and you can use that whenever you log in.

Logging in for the first time with the password sent in mail, will direct user to the page which will ask them to change their password.



After that, the user will be asked to enter their information to register themselves.

The screenshot shows a web browser window titled "LOADLESSLABS" with the URL "localhost:8084/III/userprofile". On the left, there is a sidebar with a profile picture and the email "SHAHVISHWA90@GM". Below the profile picture are several menu items: "UPLOAD PRACTICALS", "UPLOAD ASSIGNMENTS", "CHECK PRACTICALS", "CHECK ASSIGNMENTS", "EDIT PROFILE", and "SIGNOUT". The main content area is titled "EDIT PROFILE". It contains the following form fields:

Email*	shahvishwa90@gmail.com		
First Name:*	Vishwa	Society:*	abc
Last name:*	Shah	Landmark:*	def
User Name:*	shahvishwa90@gmail.com	Area:*	ghi
Contact No:*	0000000000	City:*	jkl

A blue "SAVE CHANGES" button is located at the bottom right of the form.

- Upload practical:

To upload practical, faculty will be asked to select number of fields to be created.

The screenshot shows a web browser window titled "LOADLESSLABS" with the URL "localhost:8084/III/faculty/uploadpracticals.jsp". At the top, there is a navigation bar with links for "HOME", "ABOUT US", "F.A.Q", and "CIRCULARS". On the left, there is a sidebar with a profile picture and the email "SHAHVISHWA90@GM". Below the profile picture are several menu items: "UPLOAD PRACTICALS", "UPLOAD ASSIGNMENTS", "CHECK PRACTICALS", "CHECK ASSIGNMENTS", "EDIT PROFILE", and "SIGNOUT". The main content area has a title "Enter Questions :". It contains a form with the following fields:

How Many Questions ?:

A dropdown menu next to the input field lists numbers from 1 to 20. At the bottom of the page, there are icons for "SPG", "Contact", and "Preferences".

- Faculty will select the subject, semester and submission date.

SHAHVISHWA90@GM

HOME ABOUT US F.A.Q CIRCULARS

Enter Questions :

How Many Questions ? : Generate Fields

Subject : Semester : Submission Date :

Write a program to calculate two numbers and print the output.

Upload Practical

LOADLESSLABS.COM

Labs will now go virtual.....

Type here to search

- A message will be shown when the practical will be uploaded.

SHAHVISHWA90@GM

HOME ABOUT US F.A.Q CIRCULARS

Practicals Uploaded Successfully.

Enter Questions :

How Many Questions ? : Generate Fields

LOADLESSLABS.COM

Labs will now go virtual.....

Type here to search

- The same process will take place while uploading assignments.

Labs will now go virtual.....

HOME **ABOUT US** **F.A.Q** **CIRCULARS**

SHAHVISHWA90@GM

UPLOAD PRACTICALS **UPLOAD ASSIGNMENTS** **CHECK PRACTICALS** **CHECK ASSIGNMENTS** **EDIT PROFILE** **SIGNOUT**

Enter Questions :

How Many Questions ? : Generate Fields

Subject : Semester : Submission Date :

Explain loops.

Upload Assignment

Windows taskbar: Type here to search, File Explorer, Media Player, Task View, Control Panel, File History, OneDrive, Edge, Google Chrome, File Explorer, Task View, Control Panel, ENG, 09:21, 14-04-2018

Labs will now go virtual.....

HOME **ABOUT US** **F.A.Q** **CIRCULARS**

SHAHVISHWA90@GM

LOADLESSLABS.COM

Assignemnt Uploaded Successfully.

Enter Questions :

How Many Questions ? : Generate Fields

Windows taskbar: Type here to search, File Explorer, Media Player, Task View, Control Panel, File History, OneDrive, Edge, Google Chrome, File Explorer, Task View, Control Panel, ENG, 09:22, 14-04-2018

- ❖ Check practical:
All the practical uploaded by the faculty, will be listed here.

The screenshot shows a web browser window with the URL localhost:8084/III/faculty/checkpracticals.jsp. The page title is "LOADLESSLABS.COM" with the tagline "Labs will now go virtual.....". The left sidebar shows the user's profile: SHARANCHHUGANI20 and a list of navigation options: UPLOAD PRACTICALS, UPLOAD ASSIGNMENTS, CHECK PRACTICALS, CHECK ASSIGNMENTS, EDIT PROFILE, and SIGNOUT. The main content area displays a table of uploaded practicals:

#	SUBJECT	SEMESTER	GIVEN DATE	SUBMISSION DATE	ACTION
1	1	6	2018-03-05	2018-03-09	Check Now
2	3	6	2018-04-01	2018-04-08	Check Now
3	3	6	2018-04-01	2018-04-14	Check Now
4	4	6	2018-04-01	2018-04-19	Check Now

Clicking on 'Check Now' will lead them to the page listing all the student who has submitted the practical work.
Checked and unchecked practical will be listed separately.

The screenshot shows a web browser window with the URL localhost:8084/III/faculty/chkPassign.jsp. The page title is "LOADLESSLABS.COM" with the tagline "Labs will now go virtual.....". The left sidebar shows the user's profile: SHAHVISHWA90@GM and a list of navigation options: UPLOAD PRACTICALS, UPLOAD ASSIGNMENTS, CHECK PRACTICALS, CHECK ASSIGNMENTS, EDIT PROFILE, and SIGNOUT. The main content area is divided into two sections:

- Unchecked Assignment(s):** Shows a single entry for Vishwa Shah, Sem : 6, Enrollment no: 2, with a "Check Now!" button.
- Checked Assignment(s):** No entries are shown in this section.

❖ Check assignment:

All the assignments uploaded by the faculty, will be listed here.

The screenshot shows a web browser window with the URL localhost:8084/III/faculty/checkassignments.jsp. The page title is "LOADLESSLABS.COM". On the left, there is a sidebar with a user profile picture and the name "SHARANCHHUGAN120". Below the profile are several menu options: "UPLOAD PRACTICALS", "UPLOAD ASSIGNMENTS", "CHECK PRACTICALS", "CHECK ASSIGNMENTS", "EDIT PROFILE", and "SIGNOUT". The main content area contains a table with columns: #, SUBJECT, SEMESTER, GIVEN DATE, SUBMISSION DATE, and ACTION. There is one row of data: #1, SUBJECT 1, SEMESTER 6, GIVEN DATE 2018-03-05, SUBMISSION DATE 2018-03-08, and ACTION "Check Now". The bottom of the screen shows a Windows taskbar with various icons and the date/time 01-04-2018 20:21.

Clicking on 'Check Now' will lead them to the page listing all the students who has submitted the practical work. Also, checked and unchecked assignments will be listed separately.

The screenshot shows a web browser window with the URL localhost:8084/III/faculty/chkassign.jsp. The page title is "Submitted Assignment". The sidebar and menu options are identical to the previous screenshot. The main content area is divided into two sections: "Unchecked Assignment(s)" and "Checked Assignment(s)". The "Unchecked Assignment(s)" section displays information for a student named "Vishwa Shah" with "Sem : 6" and "Enrollment no: 2", along with a "Check Now!" button. The "Checked Assignment(s)" section is currently empty. The bottom of the screen shows a Windows taskbar with various icons and the date/time 16-04-2018 09:37.

❖ Student panel:

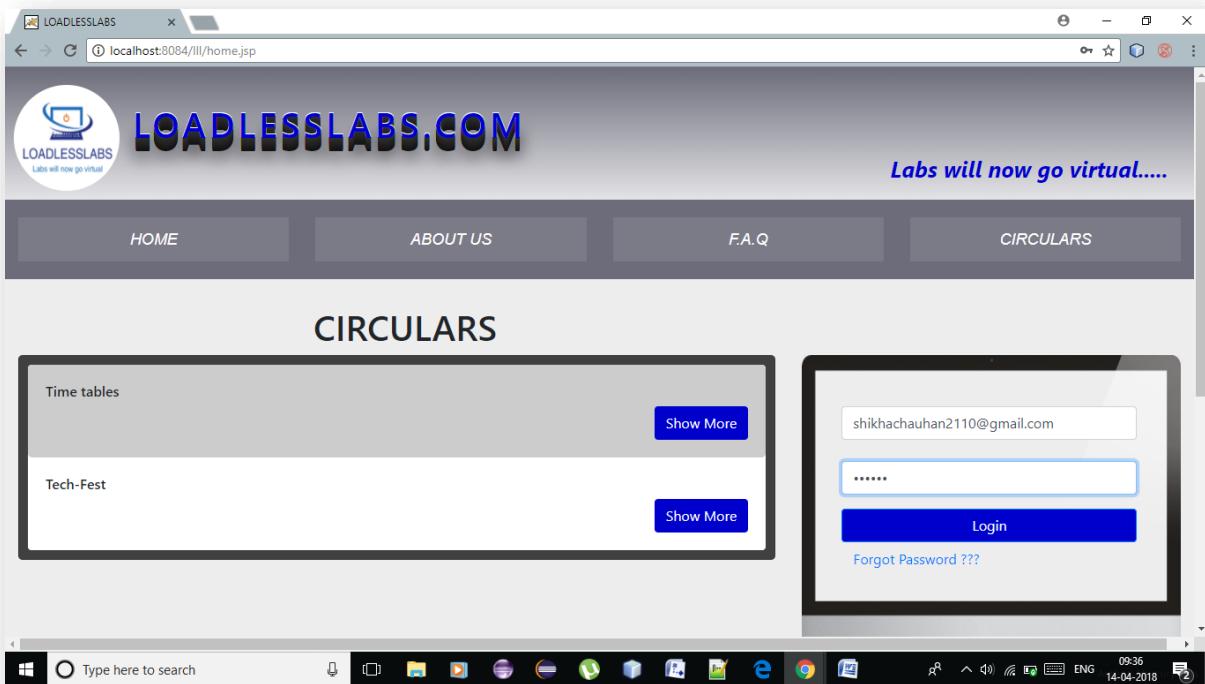
❖ Mail received by the user:

If you are logging for first time, enter the following password.

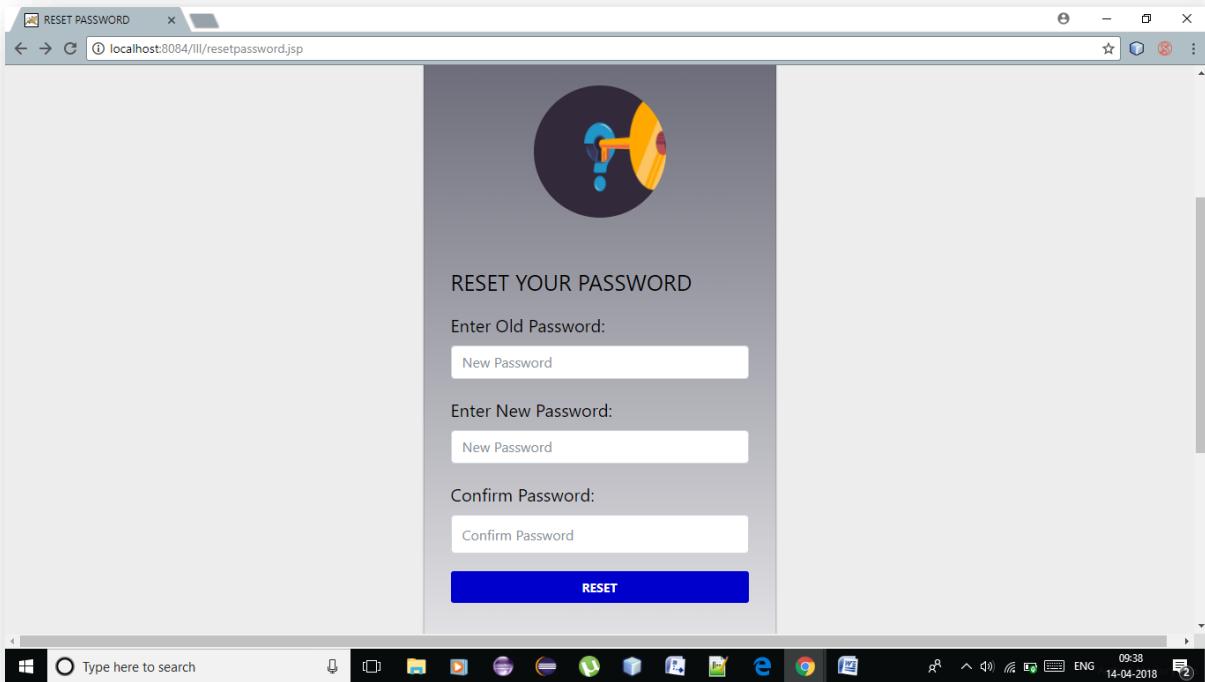
Username : shikhachauhan2110@gmail.com
Password : bdbbf1

After logging in with this password you will be asked to register yourself.
Then you will be asked to enter the password of your choice and you can use that whenever you log in.

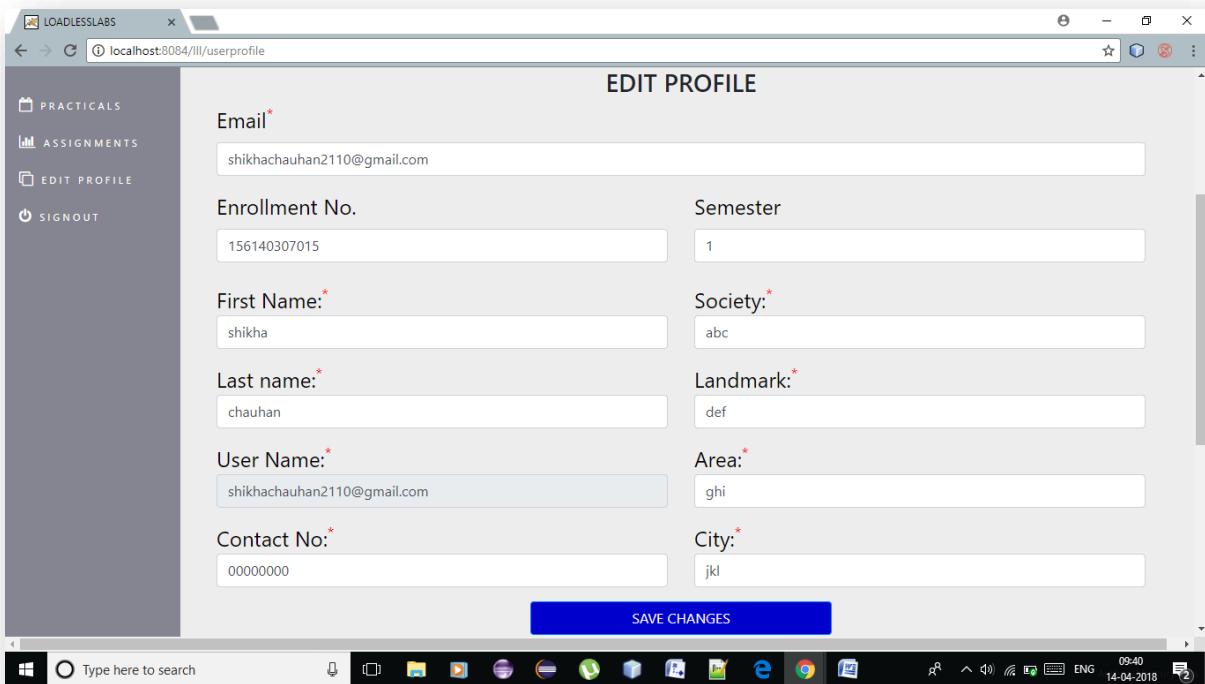
❖ Log-in for the first time:



- ❖ First time login will ask student to change their password:



- ❖ From there, they will be directed to edit profile page to register them.



Practical list and assignment list in the student dashboard will be listed according to their semester.

❖ Practical list:

A screenshot of a web browser window titled "LOADLESSLABS". The URL is "localhost:8084/III/student/practicals.jsp". On the left, there is a sidebar with a user profile picture and the name "SHIKHACHAUHAN". Below the profile are four menu items: "PRACTICALS", "ASSIGNMENTS", "EDIT PROFILE", and "SIGNOUT". The main content area displays a table with the following data:

#	SUBJECT	AIM	GRADE	GIVEN DATE	SUBMISSION DATE
1	C		B	2018-03-05	2018-03-09
	1.1	FIRST PROG			
	1.2	SECOND PROG			
2	JAVA		B	2018-04-01	2018-04-08
	2.1	WAP			
3	JAVA			2018-04-01	2018-04-14
	3.1	java prog new			
4	ASP.NET		D	2018-04-01	2018-04-19
	4.1	asp prog			

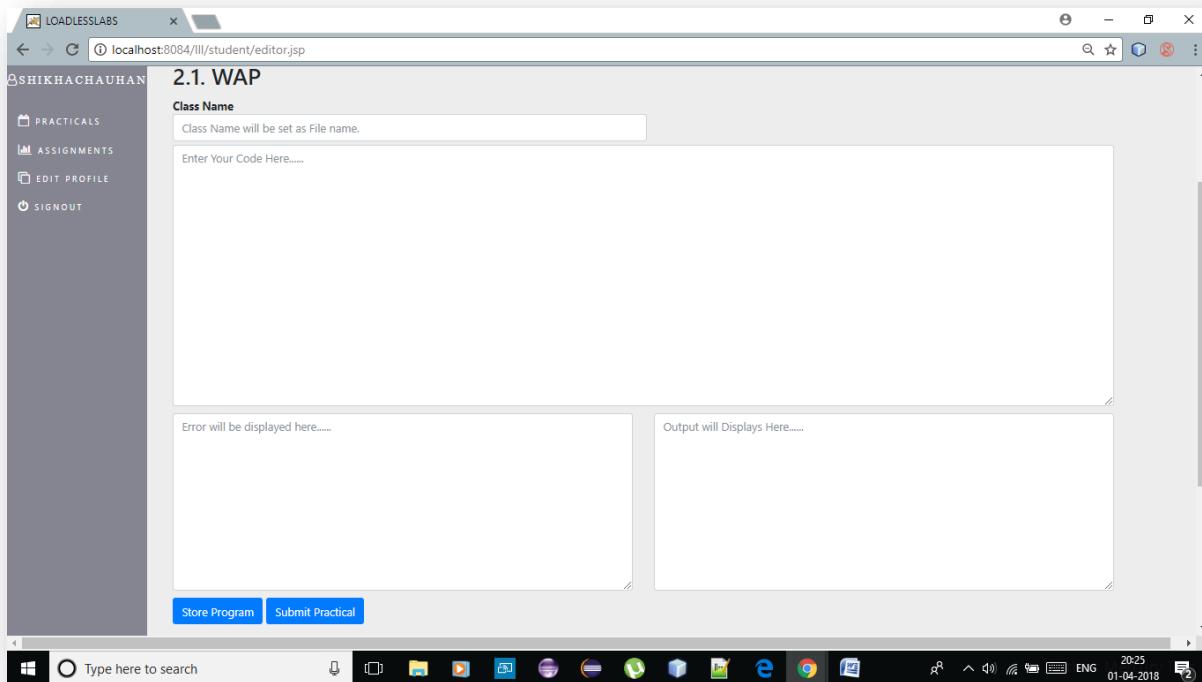
Clicking on the practical title will lead them to the editor to write their code.

❖ For any other programming language, there is a simple text area. The student will submit the code by clicking on 'Submit Practical'.

A screenshot of a web browser window titled "LOADLESSLABS". The URL is "localhost:8084/III/student/othereditor.jsp". The page has a header with "Labs will now go virtual....." and navigation links for "HOME", "ABOUT US", "F.A.Q", and "CIRCULARS". On the left, there is a sidebar with a user profile picture and the name "SHIKHACHAUHAN". Below the profile are four menu items: "PRACTICALS", "ASSIGNMENTS", "EDIT PROFILE", and "SIGNOUT". The main content area displays a form for "1.1 FIRST PROG" with the instruction "Enter Your Code Here....." and a "Submit Practical" button. At the bottom of the page, there is a footer bar with various icons and the date "01-04-2018".

- ❖ For JAVA practicals, there is a compiler available.

Clicking on ‘Store Program’ will run the code and ‘Submit Practical’ will submit the practical. Both the errors and output will be shown in the respective text area.



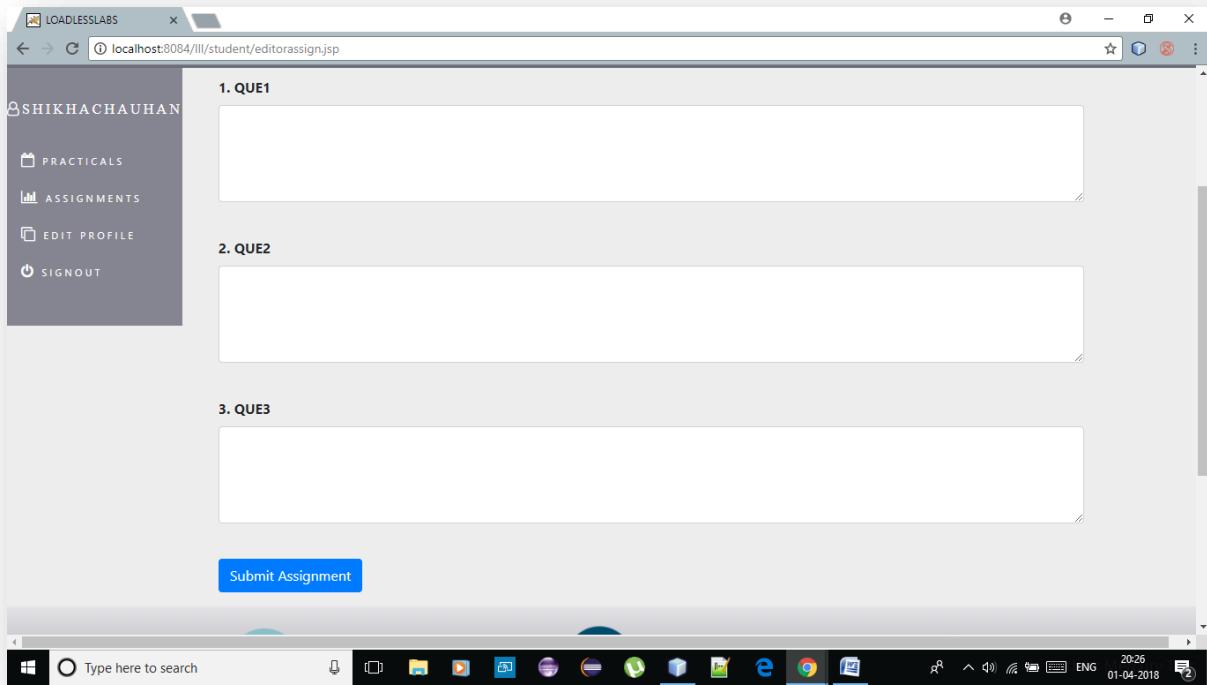
- ❖ Assignment list:

The screenshot shows a web browser window titled 'LOADLESSLABS' at the URL 'localhost:8084/lli/student/assignments.jsp'. The header features the 'LOADLESSLABS.COM' logo with the tagline 'Labs will now go virtual.....'. A navigation bar includes 'HOME', 'ABOUT US', 'F.A.Q', and 'CIRCULARS'. The left sidebar for 'SHIKHACHAUHAN' includes 'PRACTICALS', 'ASSIGNMENTS', 'EDIT PROFILE', and 'SIGNOUT'. The main content displays a table of assignments:

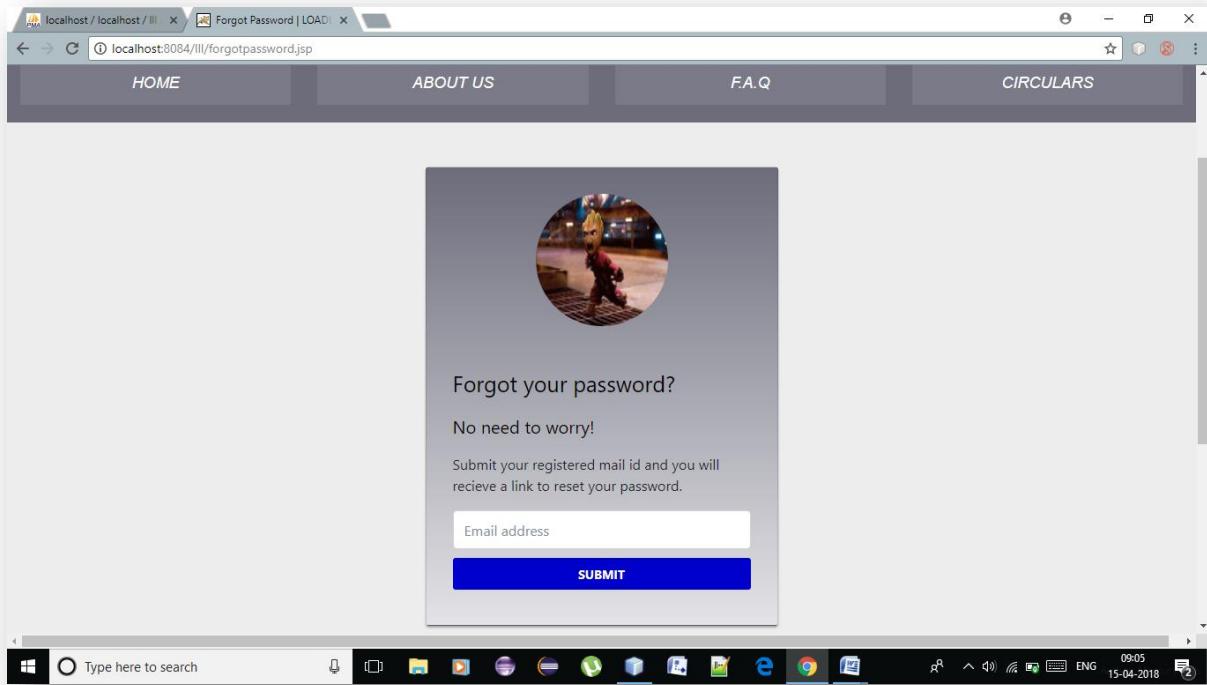
#	SUBJECT	GRADE	GIVEN DATE	SUBMISSION DATE	ACTION
1	C	A	2018-03-05	2018-03-08	<button>Complete</button>

The Windows taskbar at the bottom shows various application icons and the date/time '01-04-2018 20:26'.

There are text areas given for each question in the assignments.
Clicking on ‘Submit Assignment’ will submit all the questions.



- ❖ Common pages:
- ❖ Forgot password:



❖ About Us page:

Since 52 years, the computer department has been educating thousands of aspiring girls to achieve their dreams in computer science. The institute is located right in the middle of the collage premises, after the main building in the L.R.U.C. building.

-- Computer department enrolls 120 new students each year.
-- It has 5 well occupied labs to itself which are open for any student on collage timings.
-- Department also shares a Library having all the reference books of different subjects.
-- Also has 4 classrooms to itself with each classroom being big enough for the students of all the semesters.

LOADLESSLABS is the website developed by the students of GPG Computer Department for the Computer Department. The aim of developing online system is to make the lab work easy for students and faculties as well.

In current system, 'the manual system', the students are not able to develop their own programs and it's hard to assess their work for faculties. This problem would be solved with LOADLESSLABS as the student can develop the code online and faculties also will be able to keep track of what students did.

Here are some facilities that we tried to provide...

- The online editors are included so that the student can compile and run the code right there.
- The code that they wrote and the assignments can be submitted online.
- Faculties can assess Practicals and assignments online and grade them.

LOADLESSLABS

❖ F.A.Q.

Labs will now go virtual.....

General Questions

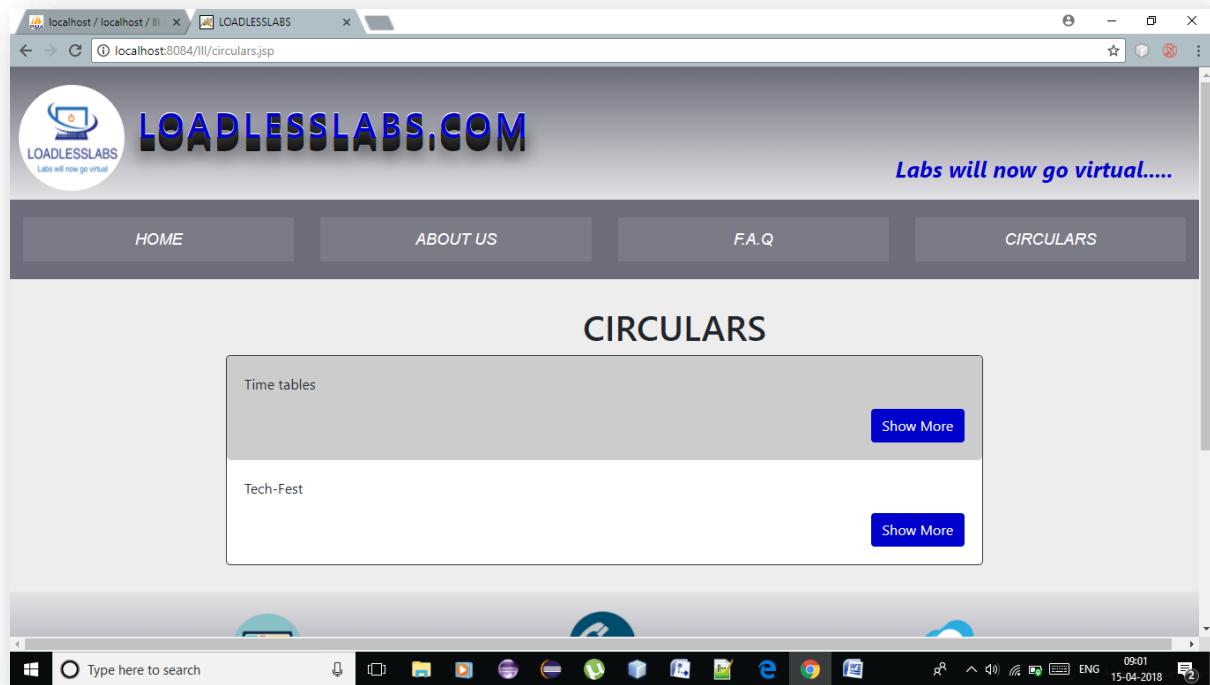
How do i login for the first time?

All the valid users will receive an e-mail including computer generated password, enter that password in the password area and you will be navigated to the registration page. After registering, you will be asked to enter the password of your choice. After this process you will be navigated to the dashboard according to your role.

Why am i taken to registration page after login?

LOADLESSLABS

❖ Circulars:



Clicking on show more will lead them to following page with description.

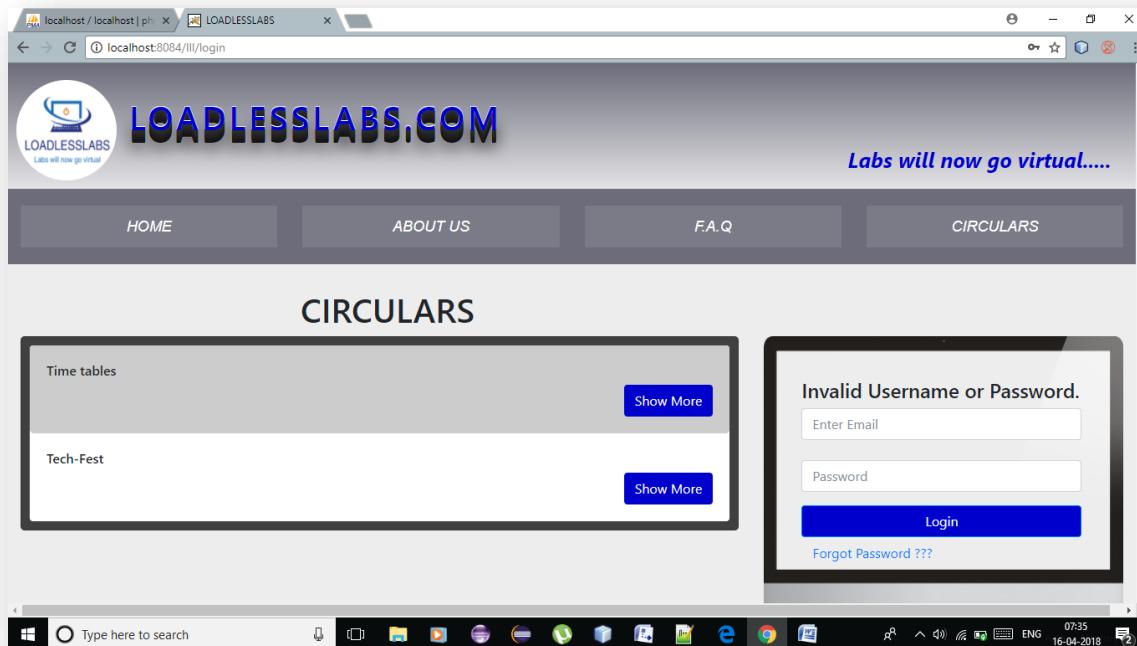
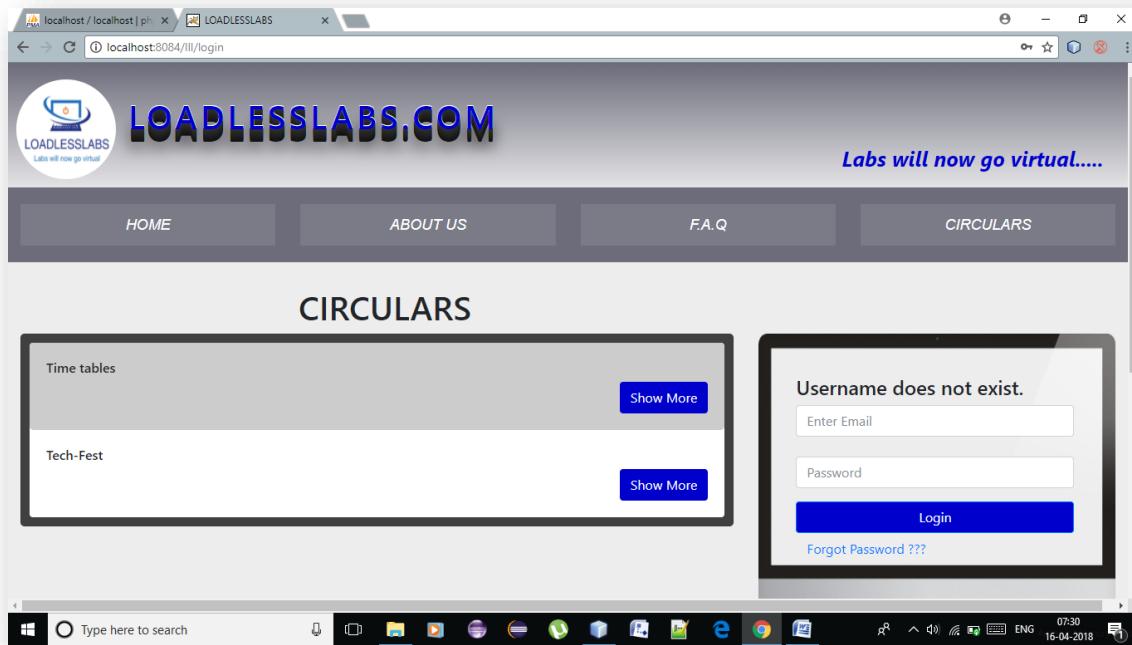


CHAPTER 10

TESTING

❖ Login page:

Test no.	Description	Test data	Expected result	Actual result
1	Logging in with invalid data.	<ul style="list-style-type: none"> - If the username is not correct - If the password if not correct 	Login fail	<ul style="list-style-type: none"> - “Username does not exist.” - “Invalid Username or Password.”



❖ Upload Practical:

Test no.	Description	Test data	Expected result	Actual result
2	Clicking on upload practical	Practical should be uploaded successfully.	Valid message	“Practical Uploaded Successfully” message.

The screenshot shows a web browser window for localhost:8084/III. The main content area displays a success message: "Practicals Uploaded Successfully." Below this, there is a form titled "Enter Questions :" with a dropdown menu set to "1" and a "Generate Fields" button. On the left sidebar, under the user profile section, there is a link labeled "UPLOAD PRACTICALS". The browser's taskbar at the bottom shows various open applications and the date/time as 16-04-2018 08:06.

Practical listed on student dashboard:

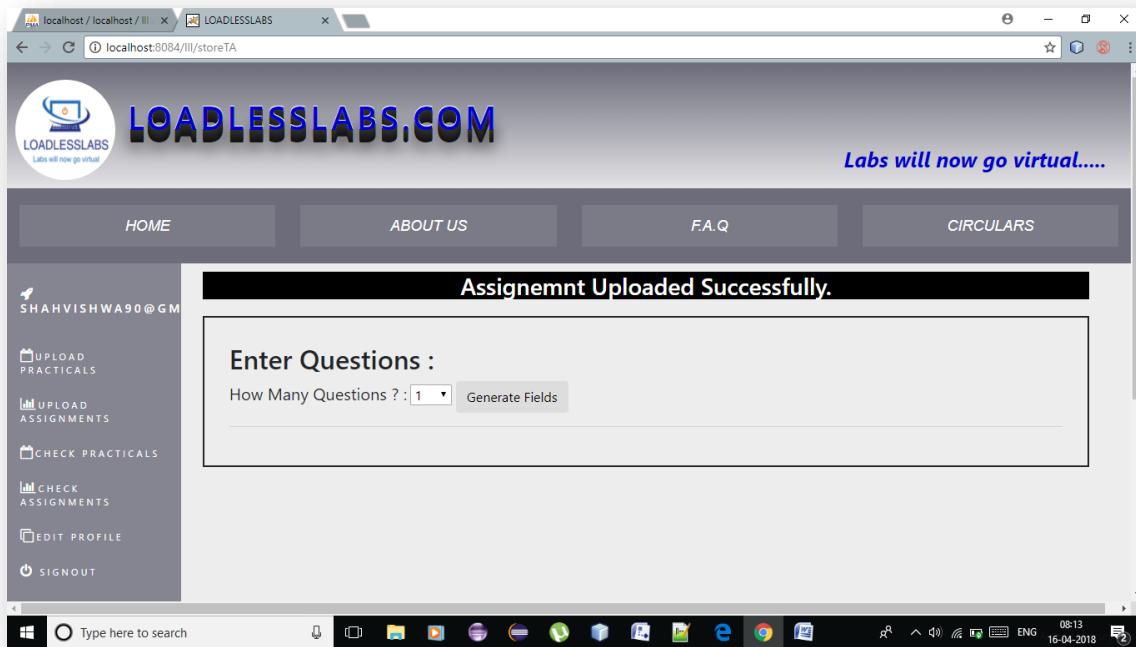
The screenshot shows a web browser window for localhost:8084/III. The main content area displays a table titled "Practicals" showing one entry. The table columns are: #, SUBJECT, AIM, GRADE, GIVEN DATE, and SUBMISSION DATE. The data is as follows:

#	SUBJECT	AIM	GRADE	GIVEN DATE	SUBMISSION DATE
1	JAVA			2018-04-16	2018-04-18
	1.1	abc			

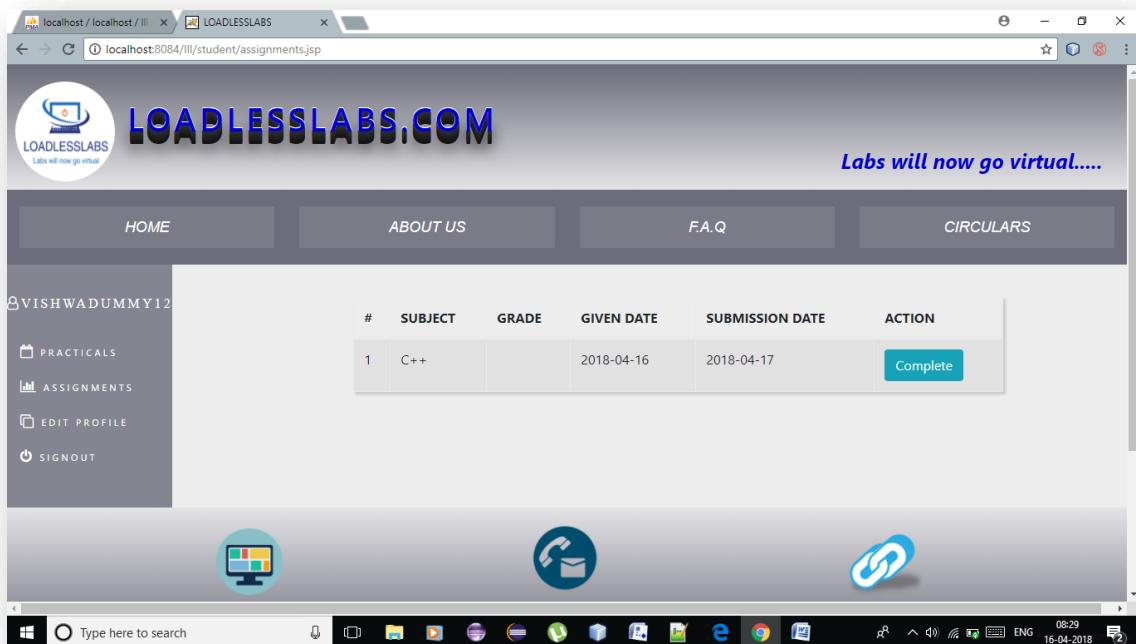
On the left sidebar, under the user profile section, there is a link labeled "PRACTICALS". The browser's taskbar at the bottom shows various open applications and the date/time as 16-04-2018 08:31.

❖ Upload Assignments:

Test no.	Description	Test data	Expected result	Actual result
2	Clicking on 'Upload assignment'	Assignment should be uploaded successfully.	Valid message	"Assignment Uploaded Successfully" message.



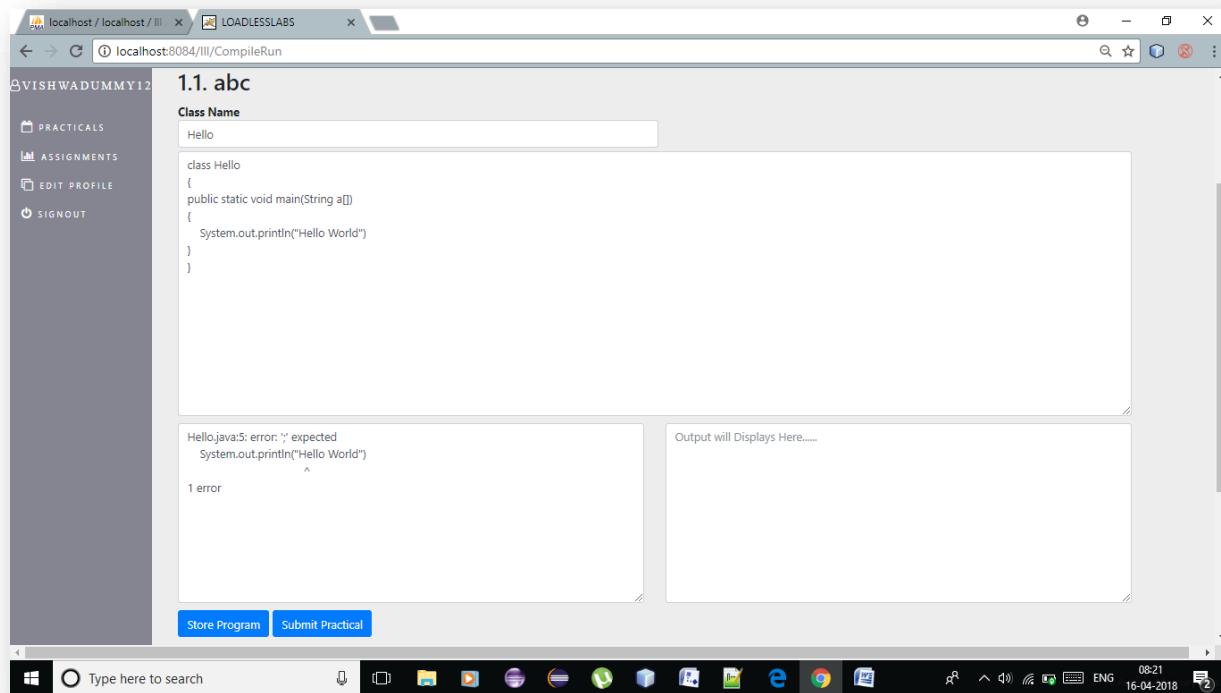
Assignment listed on student dashboard:



❖ Java Compiler:

Test no.	Description	Test data	Expected result	Actual result
3	Clicking on 'Store program'.	The program gets compiled.	Output of the program must be shown and error.	Output is shown in output area and error shown in error area.

Output with error:



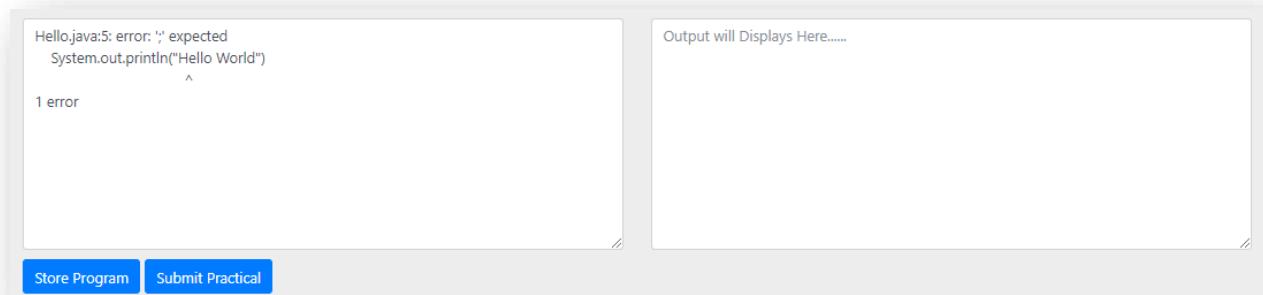
The screenshot shows a Java compiler interface on a Windows desktop. The main window title is "LOADLESSLABS" and the URL is "localhost:8084/III/CompileRun". On the left, there's a sidebar with navigation links: PRACTICALS, ASSIGNMENTS, EDIT PROFILE, and SIGNOUT. The current page is titled "1.1. abc". In the center, there's a code editor with the following Java code:

```
1.1. abc
Class Name
Hello
class Hello
{
public static void main(String a[])
{
System.out.println("Hello World")
}
}
```

Below the code editor, an error message is displayed in a box:

```
Hello.java:5: error: ';' expected
System.out.println("Hello World")
^
1 error
```

On the right, a placeholder text "Output will Displays Here....." is visible. At the bottom of the interface, there are two buttons: "Store Program" and "Submit Practical". The Windows taskbar at the bottom shows various icons and the date/time as 16-04-2018 08:21.



This screenshot shows the same Java compiler interface as the previous one, but with a different error message. The code remains the same:

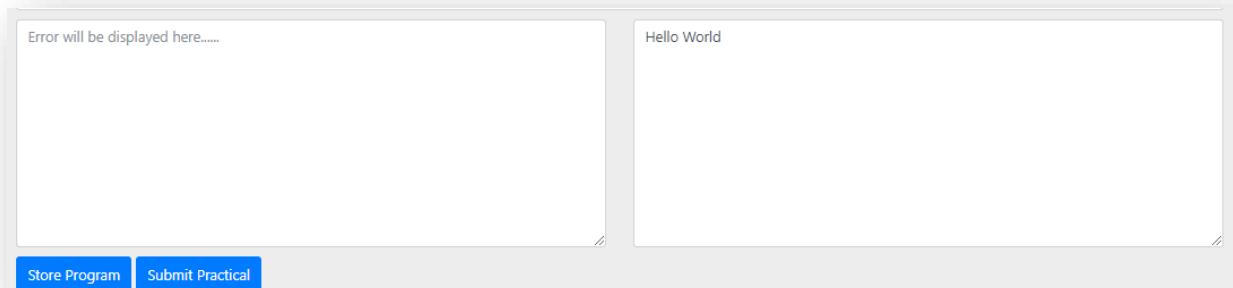
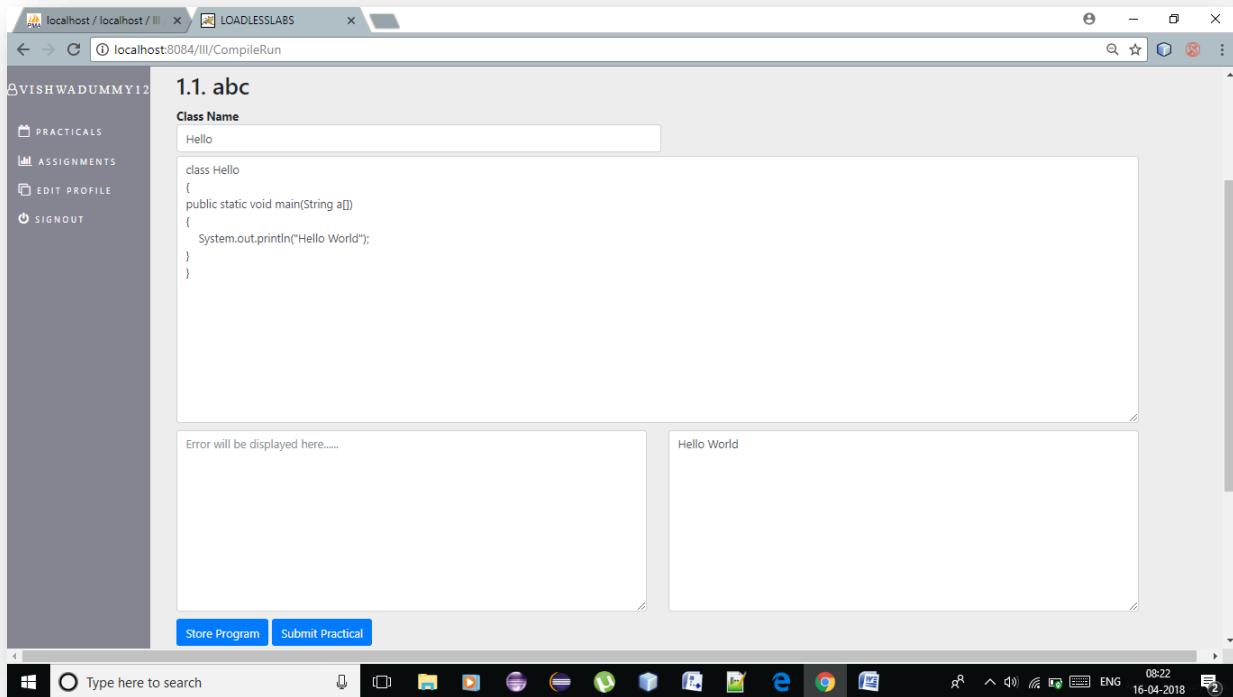
```
1.1. abc
Class Name
Hello
class Hello
{
public static void main(String a[])
{
System.out.println("Hello World")
}
}
```

The error message now reads:

```
Hello.java:5: error: ';' expected
System.out.println("Hello World")
^
1 error
```

The "Output will Displays Here....." placeholder is still present on the right. The "Store Program" and "Submit Practical" buttons are at the bottom.

Output without error:



CHAPTER 11

ADVANTAGES, LIMITATIONS & FUTURE SCOPE

❖ Advantages:

The application has been developed considering daily life of students and faculties.

Students complete their assignments and practical work and save them in files, which becomes a time consuming and harder to maintain system.

- LOADLESSLABS overcomes this disadvantage and lets the faculties upload the practical and assignments online.
- Students can submit the assignments and practical online.
- A compiler for java programs is included in the web application itself so the students can compile and run the code right there.
- Faculties can assign grades online according to the student's submitted work.

❖ Limitations:

- Compilers for any other language but java are not available so students have to compile and run the code in their systems and then upload the practical work.

❖ Future Scope:

- Compilers for other languages might get added.

CHAPTER 12
CONCLUSION

Conclusion

The idea of this project, LOADLESSLABS, was basically an invention that came from a need of reducing the workload and optimizing the entire file process to a situation where students can focus on practical which would be great for their future and enhance their skills.

This web application will solve all the major problems for the students as well as faculties.

The website will work as an e-assessment portal of practical and assignments, as well as, provide required information and circulars to all, will reduce communication inconvenience and maintenance of records.

In short it increases the ease for both students and faculty.

❖ REFERENCES:

- The complete reference in JAVA edition 9.
- Coding in JAVA.
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- Core JAVA Fundamentals.

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