Leave Management System

Prepared By:

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Guided By

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Outline

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- Objective
- About Technology
- Software Development Life Cycle Model
- System Requirement
- Diagrams
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Introduction

▶ This Leave Management System is a great solution for all leave related problem of all Engineering Colleges.

▶ In most of the Colleges the leave related information's are maintained through the letter/paper work which is a very difficult task because as the time passed the information will be lost.

▶ The administrator can view the information of a particular students' that for how many days he was on the leave so that he can have information about the remaining leave period of an employee.

▶ This Leave Management System Final Year Project streamlines communication between your Students and employees.

▶ Users involved:

1. Admin
2. Faculty
3. Student

Objective

▶ To automate the existing Leave Management in educational institutes.

▶ To decrease the paperwork and enable the process with efficient, reliable record maintenance by using centralized database, thereby reduces chances of data lose.

▶ To provide for an automated leave management system that intelligently adapts leave policy for students and employees in any organization.

▶ The main feature of our project is :

1) Leave

2) Leave Report

3) Application

4) Application Report

About Technology

▶ Platform   : PHP

▶ Client Authoring   : BOOTSTRAP,HTML,CSS,JAVASCRIPT,JQUERY

▶ Server side   : MySQLi

▶ Code behind   : PHP

▶ Web server   : XAMPP server

▶ Development tools   : Php Storm JetBraines

Software Development Life Cycle Model

- **Spiral Model:**

  Definition:

  The spiral model is a risk-driven process model generator for software projects. Based on the unique risk patterns of a given project, the spiral model guides a team to adopt elements of one or more process models, such as incremental, waterfall, or evolutionary prototyping.
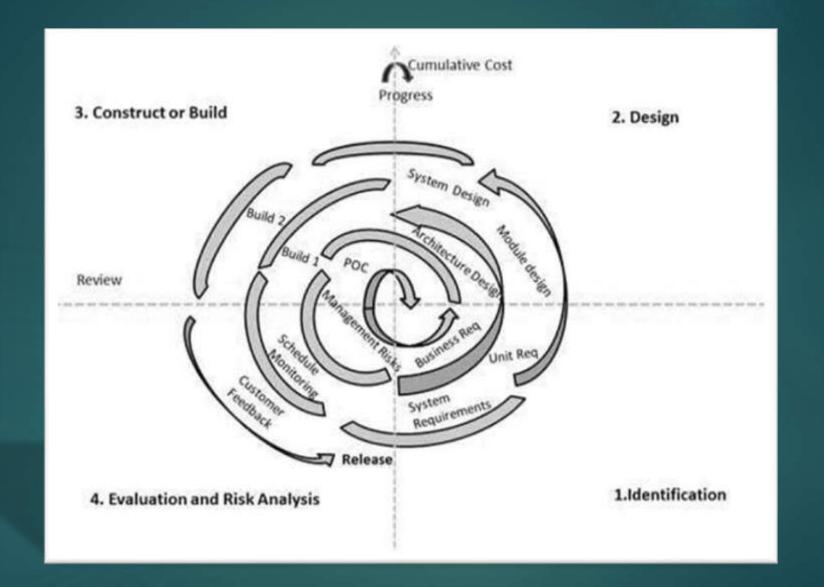
Figure : Spiral Model

▶ **Why we use Spiral Model :**

1. Because the requirement of client is fully fulfilled by this model.

2. If there is any error in particular model it can be solved at a time.

3. Client will be engaged during hall project.

4. Less time consuming compare to other model.

5. Less risk throughout the project.

6. When new requirement is needed then easily add after development.

▶ **System Requirement**

1. **Memory**   : 1 GB RAM
2. **Hard disk**   : 100 GB
3. **Processor**   : Pentium
4. **Browser**   : Google Chrome, Mozilla Firefox, Internet Explorer and Other
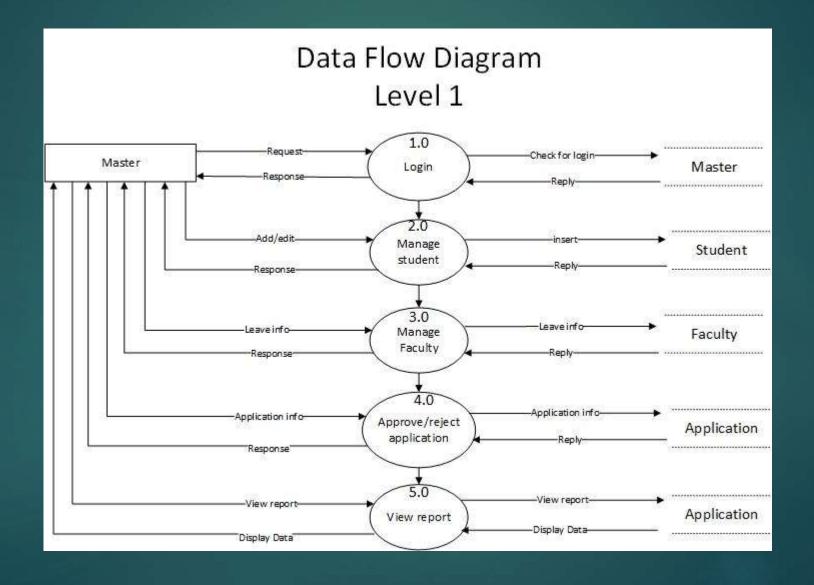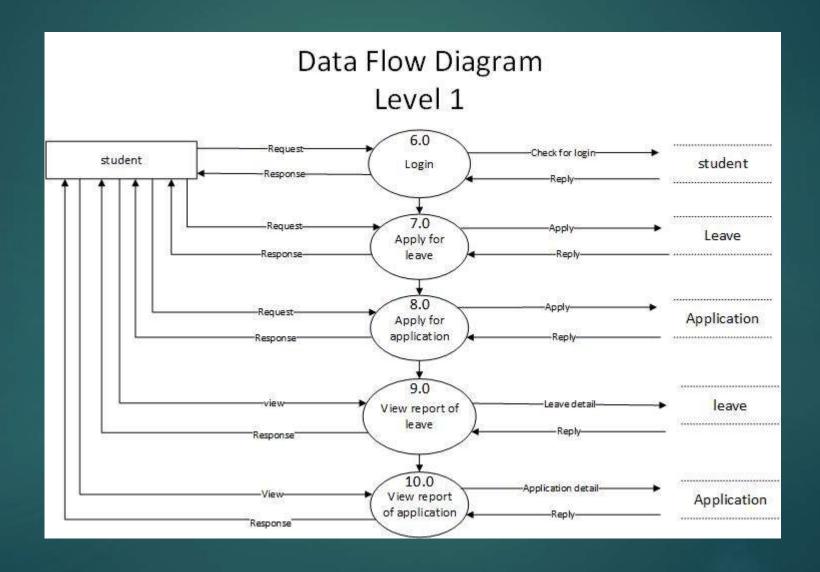5. **Network Interface Card**
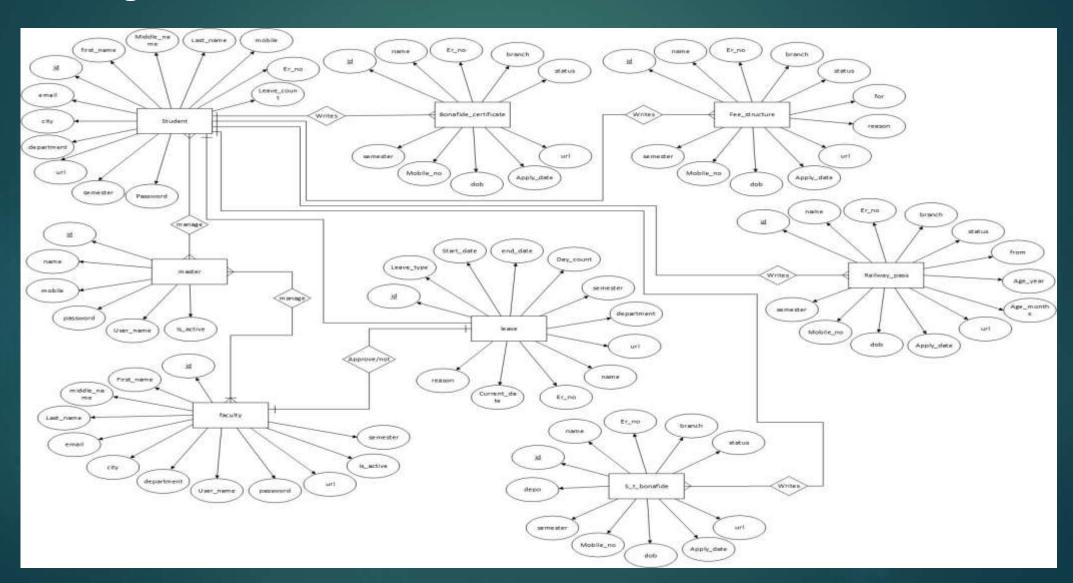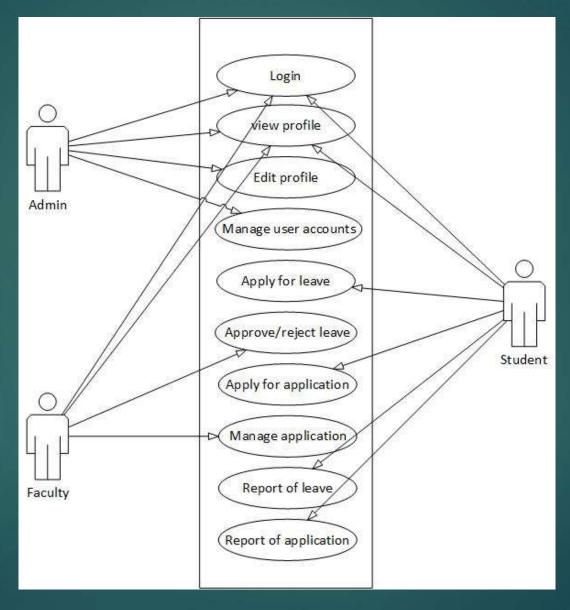
Daigram
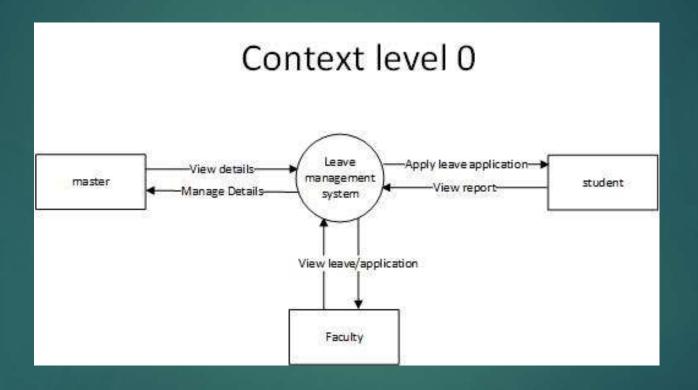
▶ **E-R Diagram**

Use Case Diagram

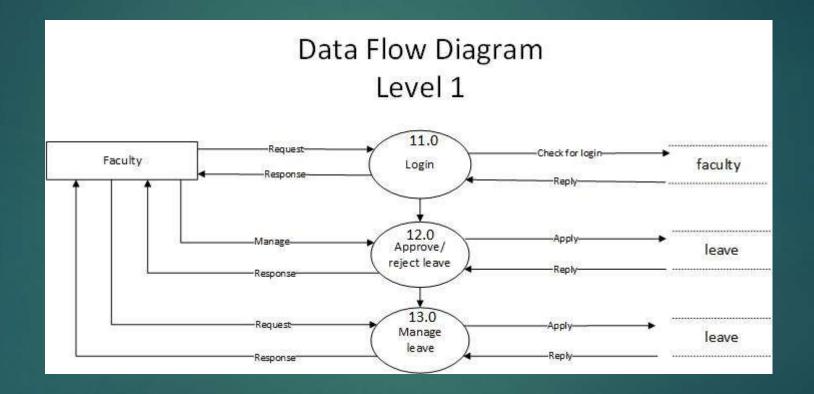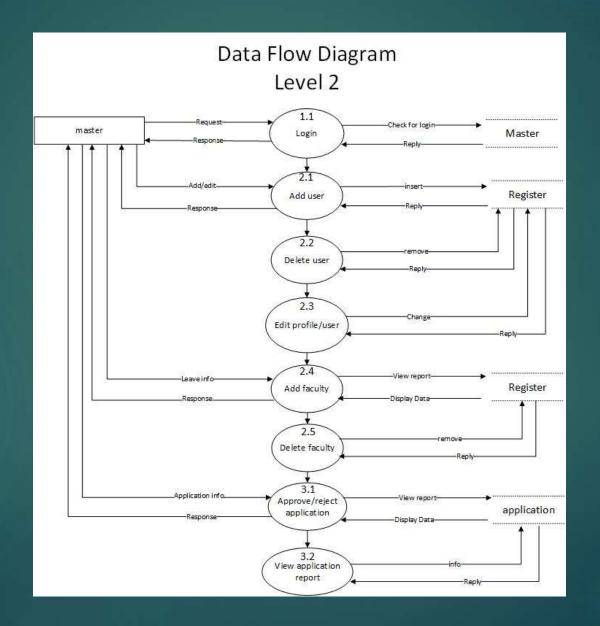# ▶ Data Flow Diagram Context Level

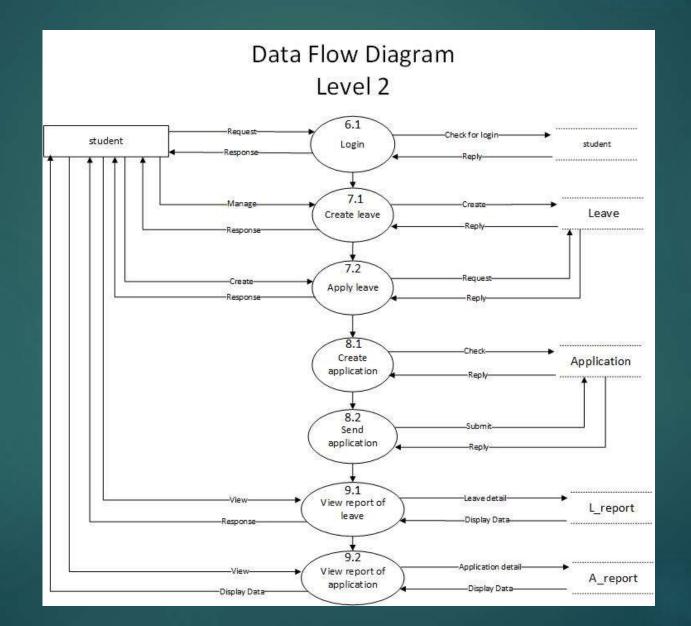# ▶ Data Flow Diagram User Level 1

Data Flow Diagram Level 1

Master		

- 1.0 Login
  - Request → / Response ←
  - Check for login → Master / Reply ←
- 2.0 Manage student
  - Add/edit → / Response ←
  - insert → Student / Reply ←
- 3.0 Manage Faculty
  - Leave info → / Response ←
  - Leave info → Faculty / Reply ←
- 4.0 Approve/reject application
  - Application info → / Response ←
  - Application info → Application / Reply ←
- 5.0 View report
  - View report → / Display Data ←
  - View report → Application / Display Data ←

▶ Data Flow Diagram User Level 1

▶ Data Flow Diagram Faculty Level 1

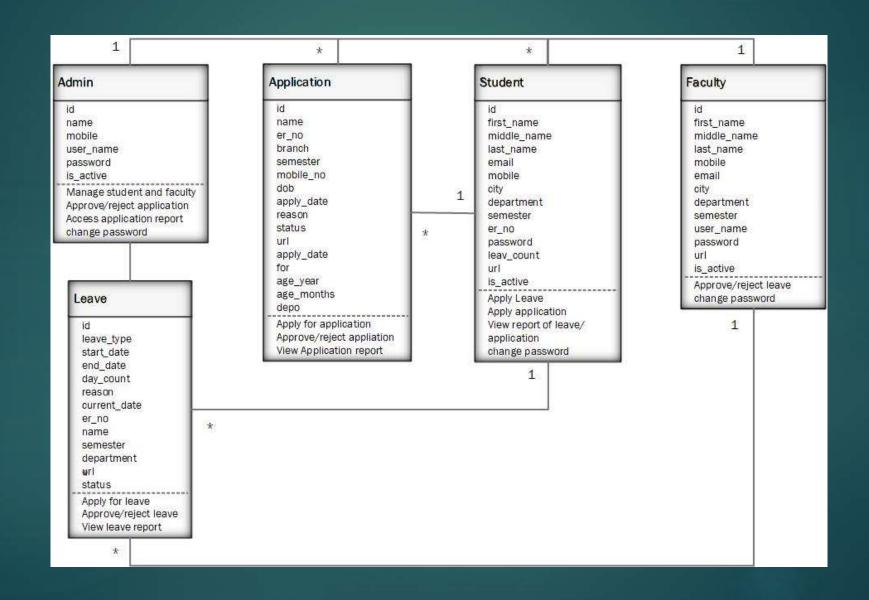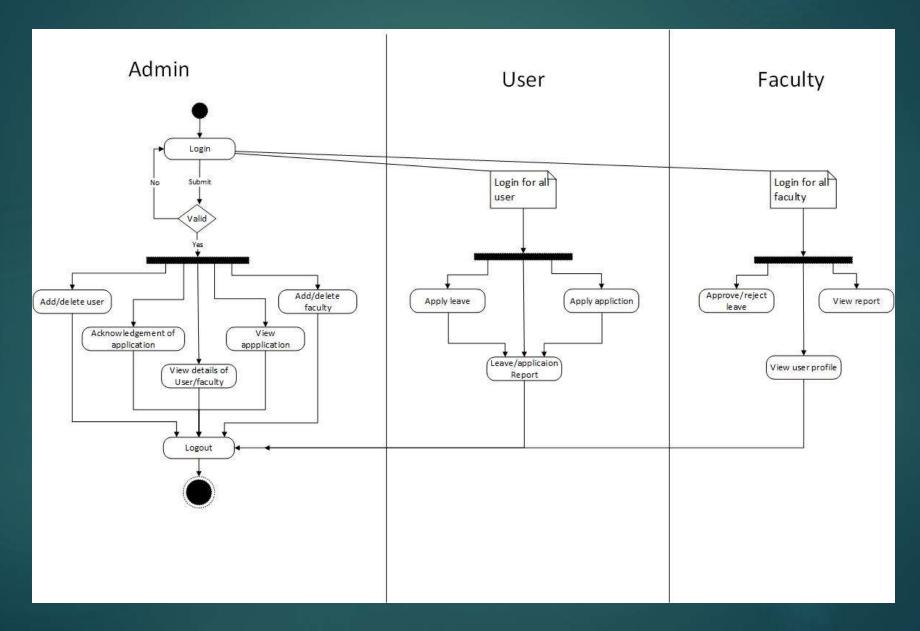Data Flow Diagram
Level 1
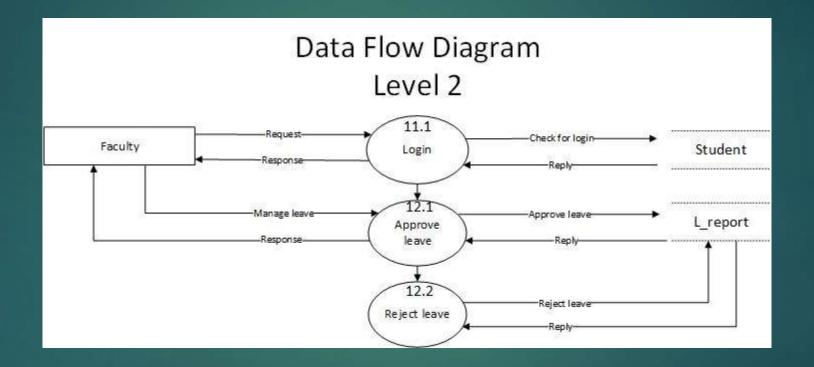
▶ Data Flow Diagram Admin Level 2

▶ Data Flow Diagram User Level 2

Data Flow Diagram Level 2

▶ Data Flow Diagram Faculty Level 2

Data Flow Diagram
Level 2

► Class Diagram

Activity Diagram

Data Dictionary

▶ **Table 5.1.1 [student]**

Field Name	Data Type(Size)	Constrain
id	INT(11)	Primary Key
first_name	VARCHAR(255)	NOT NULL
middle_name	VARCHAR(255)	NOT NULL
last_name	VARCHAR(255)	NOT NULL
mobile	BIGINT(20)	Unique Key
email	VARCHAR(255)	Unique Key
city	VARCHAR(255)	NOT NULL
department	VARCHAR(255)	NOT NULL
semester	ENUM	NOT NULL
enrollment_no	VARCHAR(255)	NOT NULL
password	VARCHAR(255)	NOT NULL
leave_count	INT(11)	NOT NULL
url	VARCHAR(255)	Unique Key
is_active	ENUM	NOT NULL

▶ Table 5.1.2 [master]

Field Name	Data Type(Size)	Constrain
Id	INT(11)	Primary Key
name	VARCHAR(255)	NOT NULL
Mobile	BIGINT(20)	NOT NULL
user_name	VARCHAR(255)	NOT NULL
password	VARCHAR(255)	NOT NULL
is_activa	ENUM	NOT NULL

Table 5.1.3 [faculty]

Field Name	Data Type(Size)	Constrain
id	INT(11)	Primary Key
first_name	VARCHAR(15)	NOT NULL
middle_name	VARCHAR(255)	NOT NULL
last_name	VARCHAR(255)	NOT NULL
mobile	BIGINT(20)	Unique Key
email	VARCHAR(255)	Unique Key
city	VARCHAR(255)	NOT NULL
department	VARCHAR(255)	NOT NULL
Semester	ENUM	NOT NULL
user_name	VARCHAR(255)	NOT NULL
Password	VARCHAR(255)	NOT NULL
url	VARCHAR(255)	Unique Key
is_active	ENUM	NOT NULL

▶ Table 5.1.4 [leave]

Field Name	Data Type(Size)	Constrain
id	INT(11)	Primary key
leave_type	VARCHAR(255)	NOT NULL
start_date	VARCHAR(255)	NOT NULL
end_date	VARCHAR(255)	NOT NULL
day_count	INT(11)	NOT NULL
reason	TEXT	NOT NULL
current_date	DATE	NOT NULL
enrollment_no	BIGINT(20)	Unique Key
name	VARCHAR(255)	NOT NULL
semester	ENUM	NOT NULL
department	VARCHAR(255)	NOT NULL
url	VARCHAR(255)	NOT NULL
status	ENUM	Unique Key

Table 5.1.5 [bonafide_certificate]

Field Name	Data Type(Size)	Constrain
id	INT(11)	Primary key
name	VARCHAR(255)	NOT NULL
enrollment_no	VARCHAR(255)	NOT NULL
branch	VARCHAR(255)	NOT NULL
semester	ENUM	NOT NULL
mobile_no	VARCHAR(255)	NOT NULL
dob	VARCHAR(255)	NOT NULL
apply_date	VARCHAR(255)	NOT NULL
reason	VARCHAR(255)	NOT NULL
status	ENUM	NOT NULL
url	VARCHAR(255)	NOT NULL

▶ Table 5.1.6 [fee_structure]

Field Name	Data Type(Size)	Constrain
id	INT(11)	Primary key
name	VARCHAR(255)	NOT NULL
enrollment_no	VARCHAR(255)	NOT NULL
branch	VARCHAR(255)	NOT NULL
semester	VARCHAR(255)	NOT NULL
mobile_no	VARCHAR(255)	NOT NULL
dob	VARCHAR(255)	NOT NULL
apply_date	VARCHAR(255)	NOT NULL
for	VARCHAR(255)	NOT NULL
reason	VARCHAR(255)	NOT NULL
status	ENUM	NOT NULL
url	VARCHAR(255)	NOT NULL

▶ Table 5.1.7 [railway_pass]
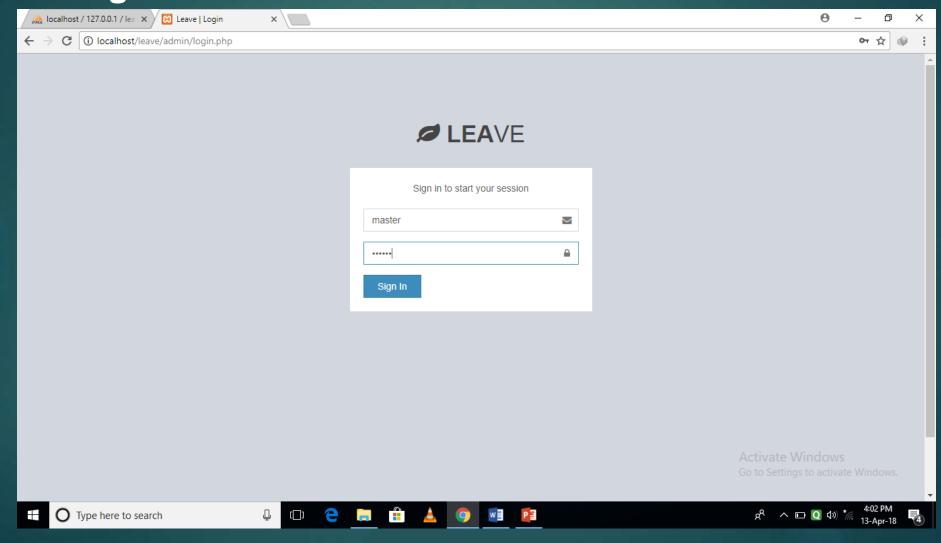
Field Name	Data Type(Size)	Constrain
id	INT(11)	Primary key
name	VARCHAR(255)	NOT NULL
enrollment_no	VARCHAR(255)	NOT NULL
branch	VARCHAR(255)	NOT NULL
Semester	VARCHAR(255)	NOT NULL
mobile_no	VARCHAR(255)	NOT NULL
dob	VARCHAR(255)	NOT NULL
apply_date	VARCHAR(255)	NOT NULL
for	VARCHAR(255)	NOT NULL
reason	VARCHAR(255)	NOT NULL
status	ENUM	NOT NULL
url	VARCHAR(255)	NOT NULL

► Table 5.1.8 [s_t_bonafide]
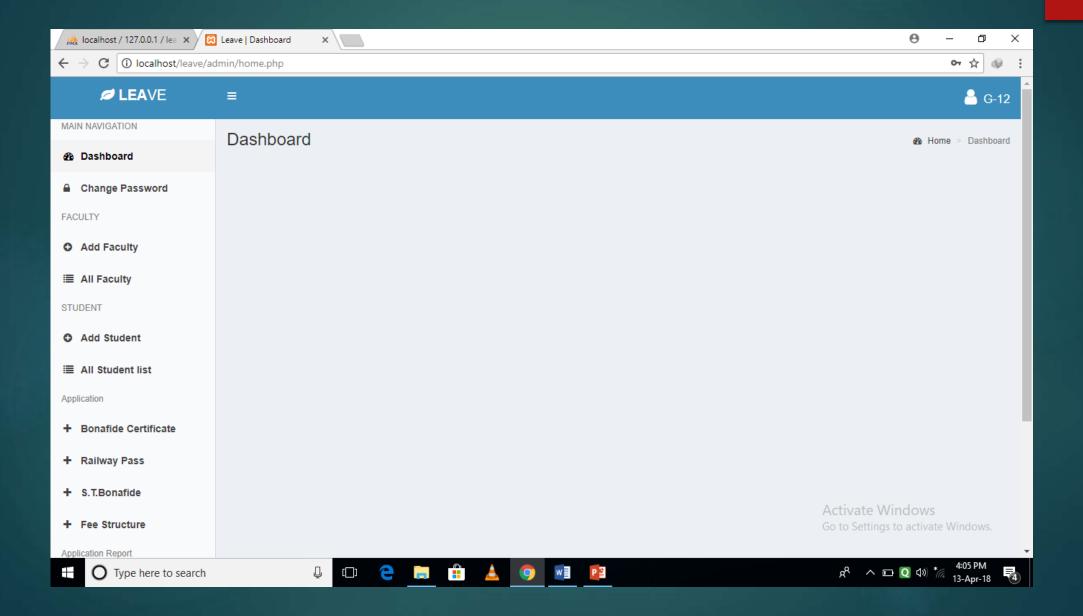
Field Name	Data Type(Size)	Constrain
id	INT(11)	Primary key
name	VARCHAR(255)	NOT NULL
enrollment_no	VARCHAR(255)	NOT NULL
branch	VARCHAR(255)	NOT NULL
semester	ENUM	NOT NULL
mobile_no	VARCHAR(255)	NOT NULL
dob	VARCHAR(255)	NOT NULL
apply_date	VARCHAR(255)	NOT NULL
depo	VARCHAR(255)	NOT NULL
from	VARCHAR(255)	NOT NULL
status	ENUM	NOT NULL
url	VARCHAR(255)	NOT NULL

Implementation
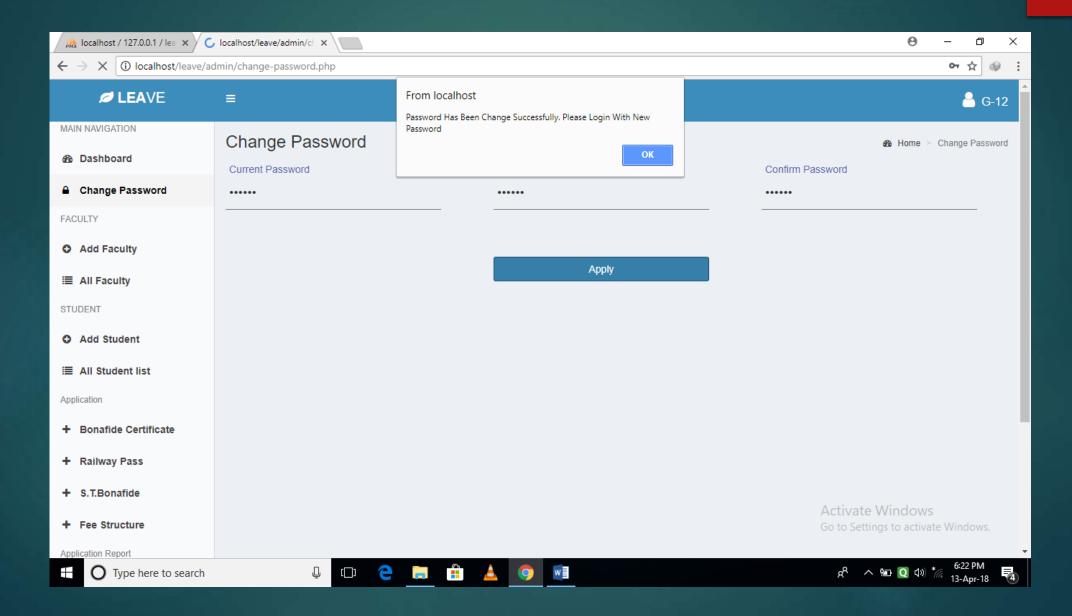
▶ **Admin Login**
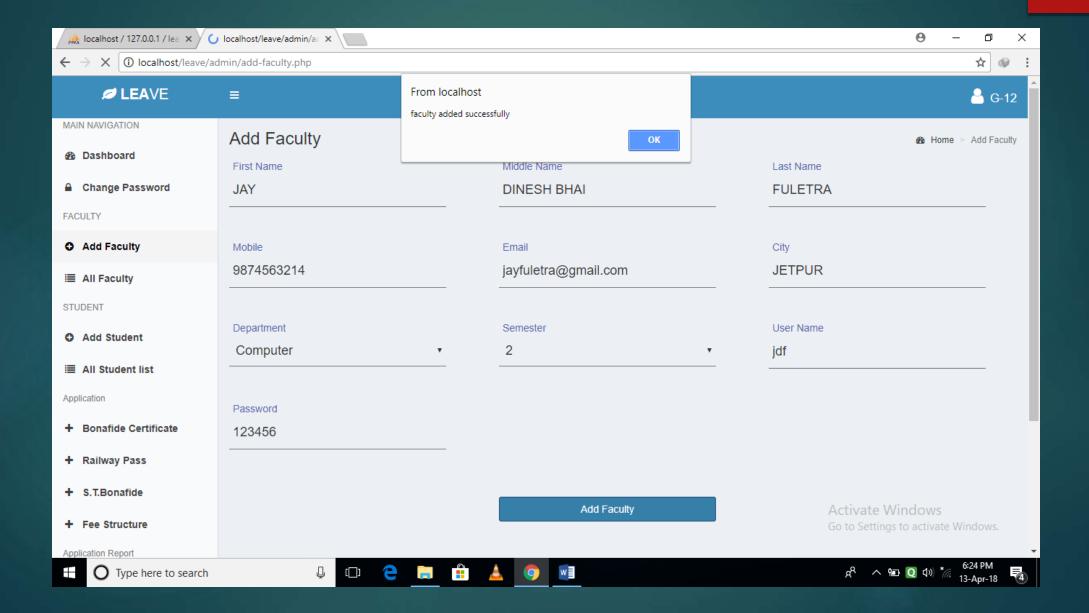
Admin Dashboard
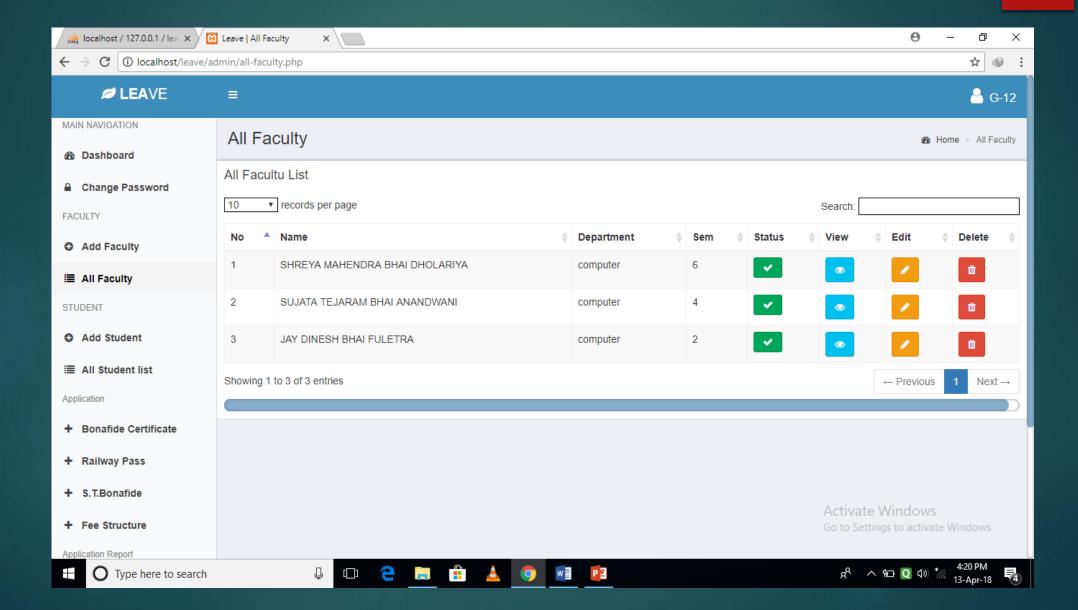
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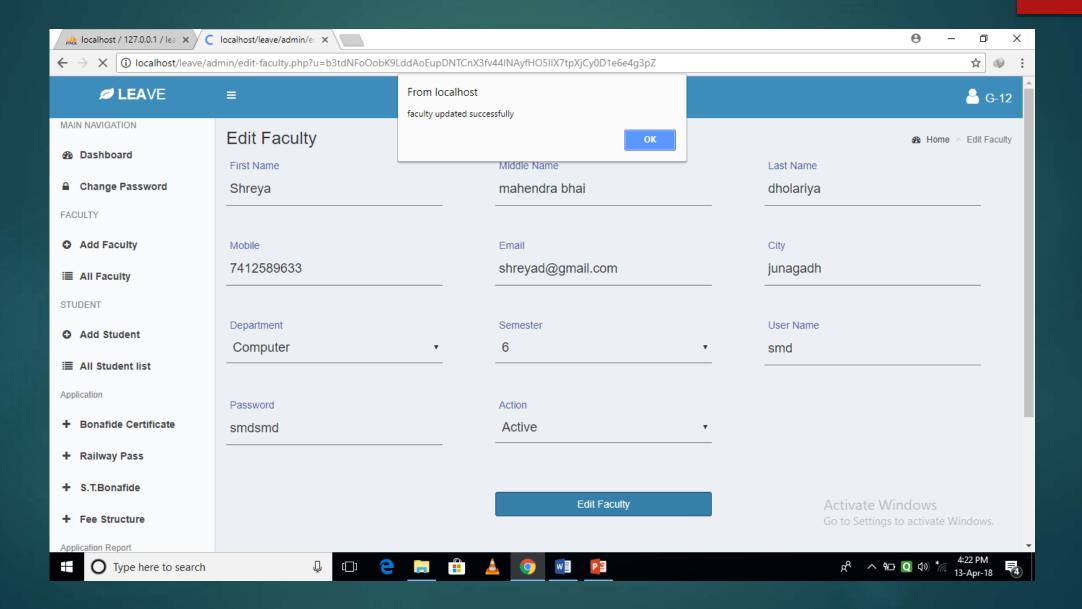
Add Faculty
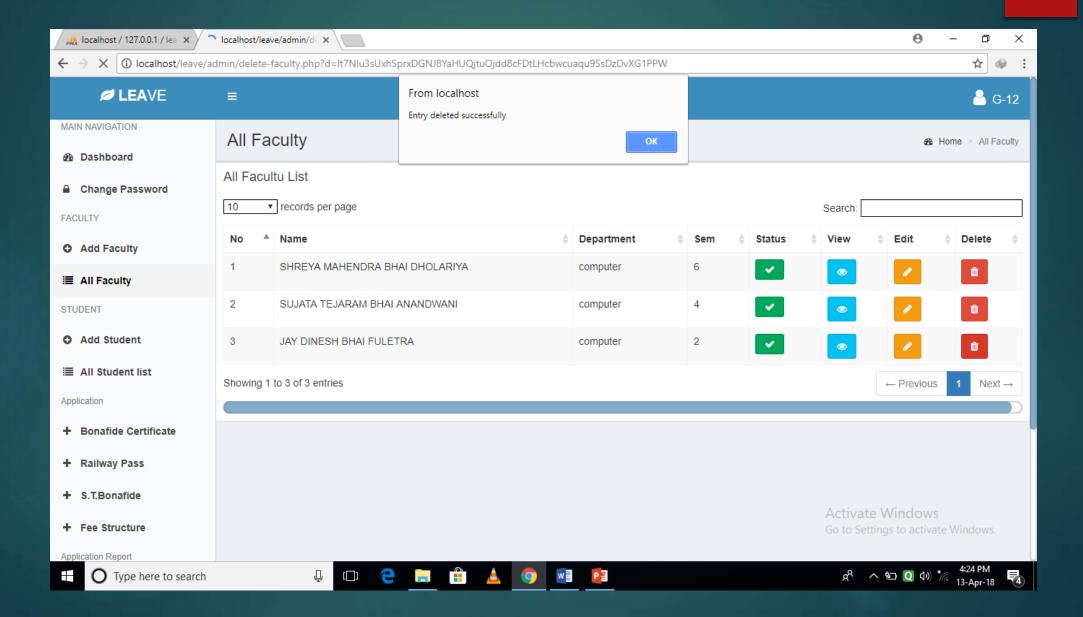
▶ View Faculty
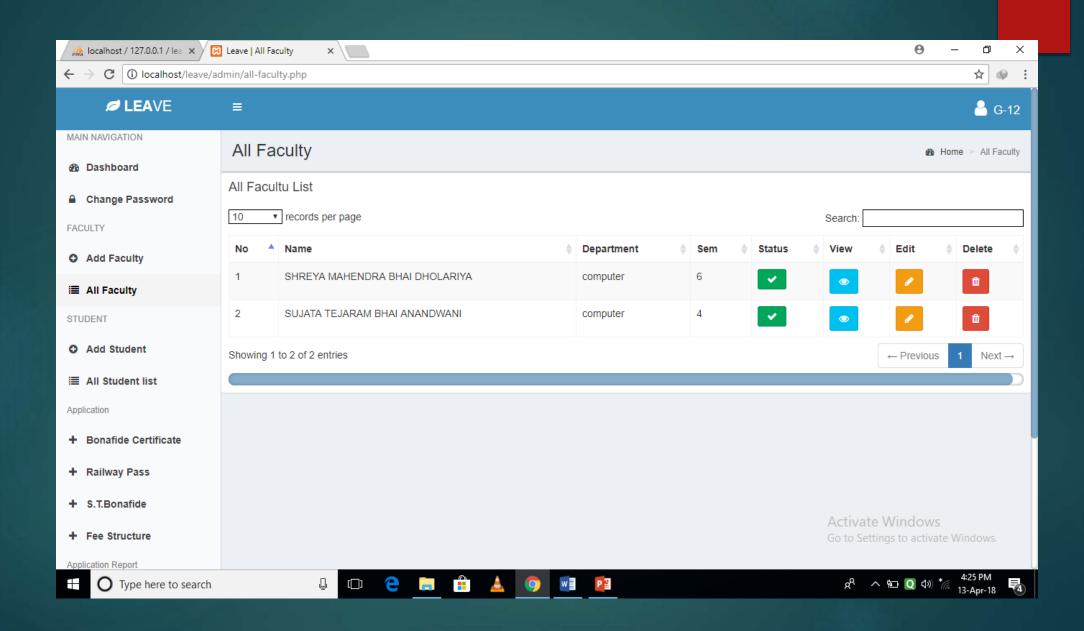
Edit Faculty
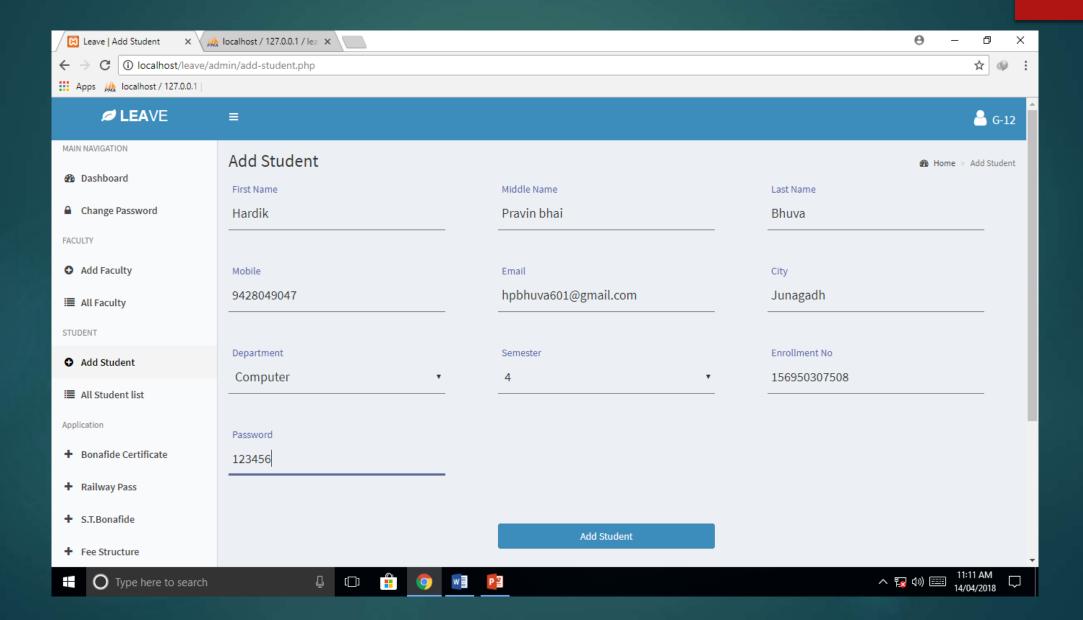
▶ Delete Faculty
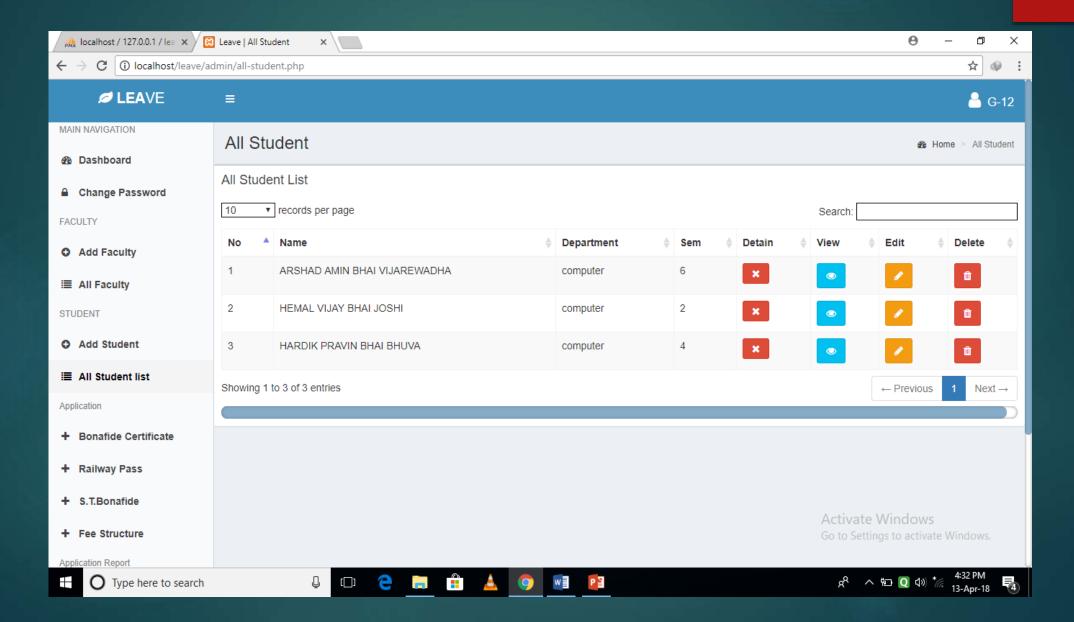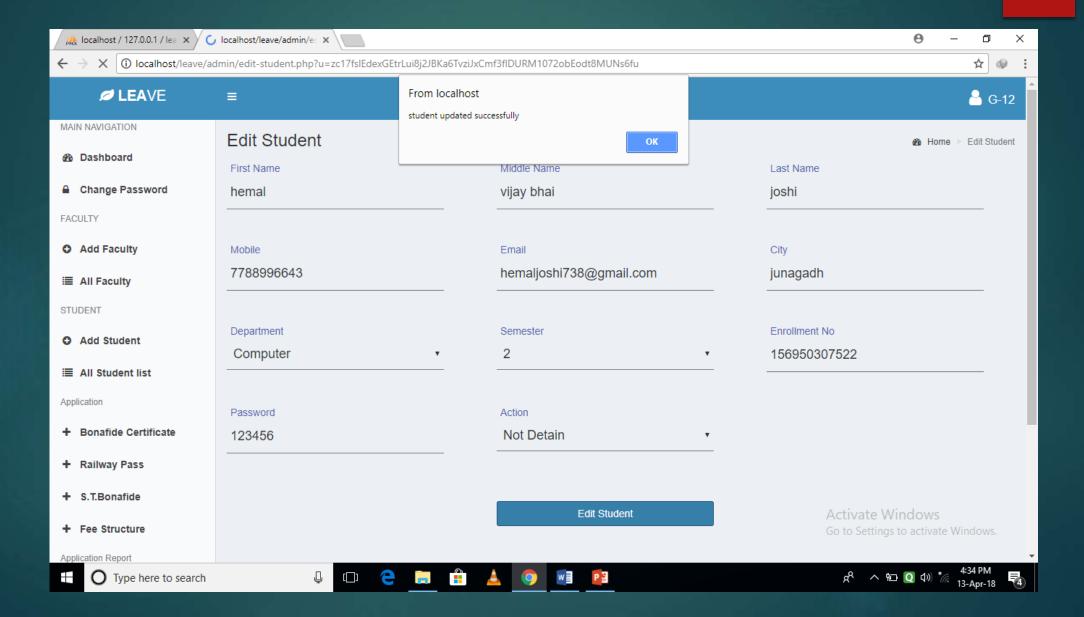
Add Student
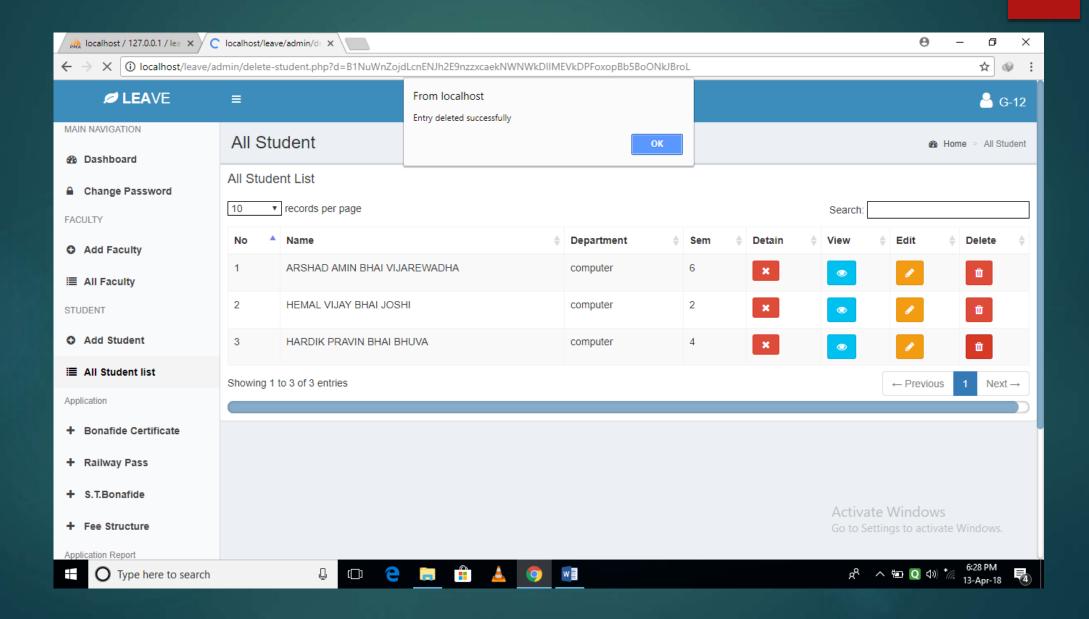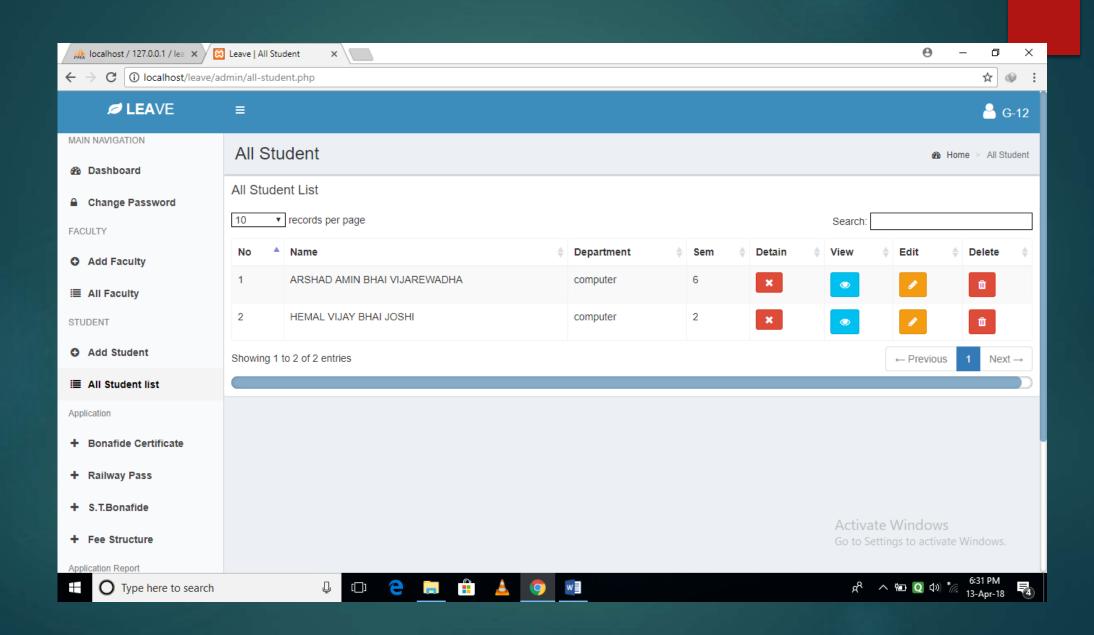
Edit Student
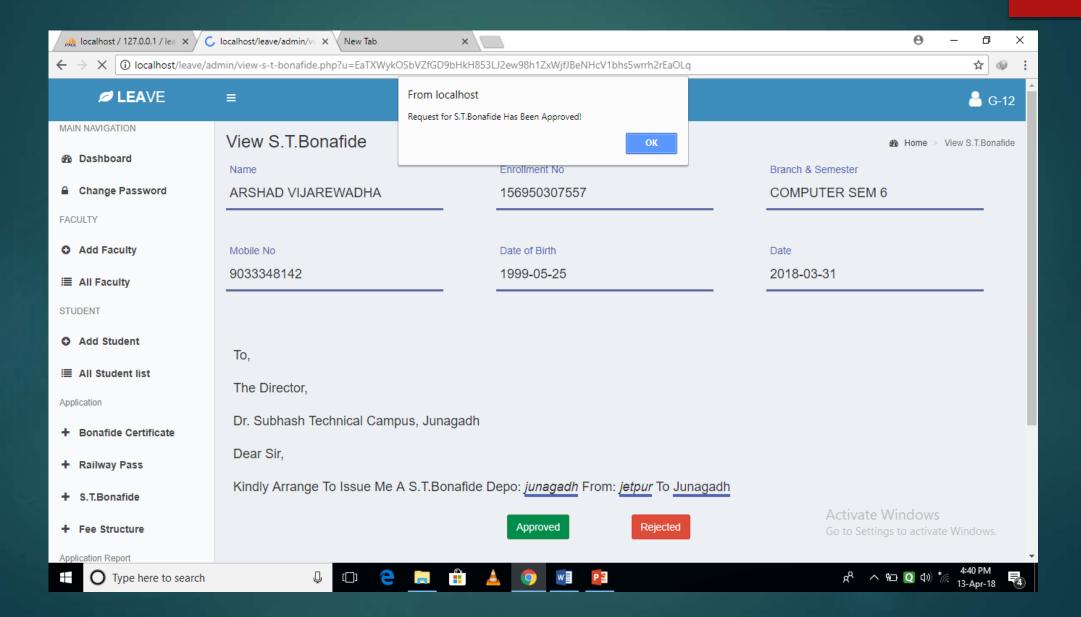
Delete Student
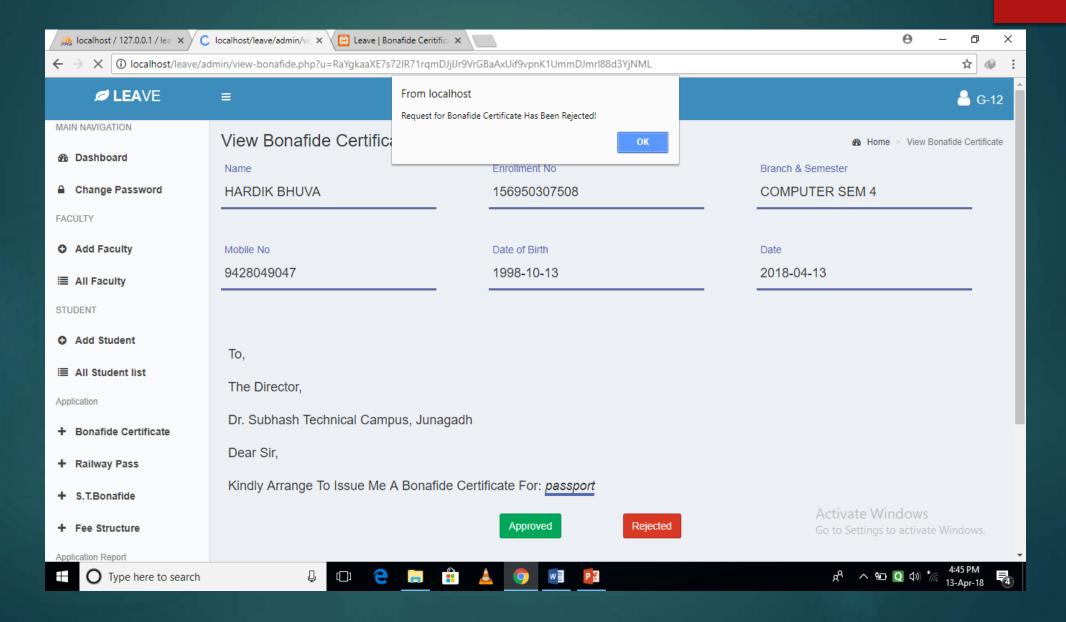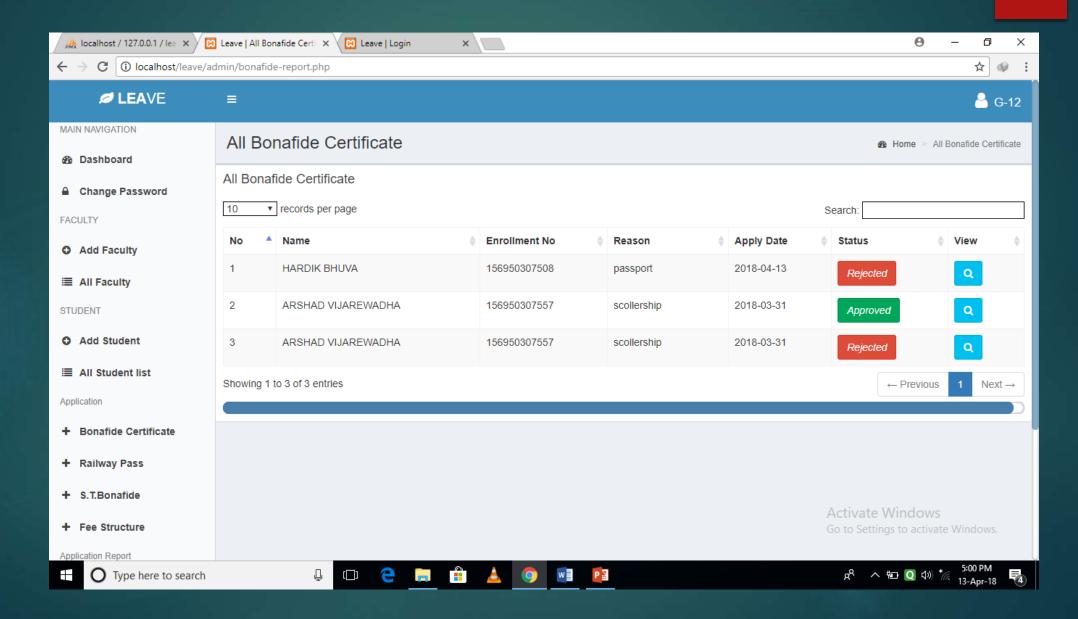
S.T.Bonafide Application (Approved)
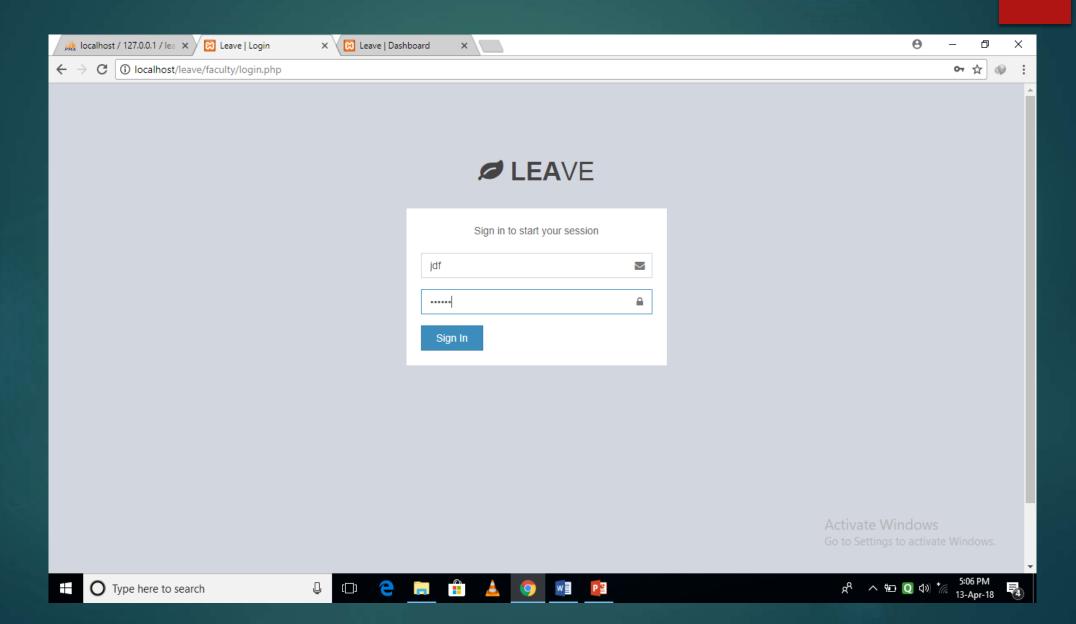
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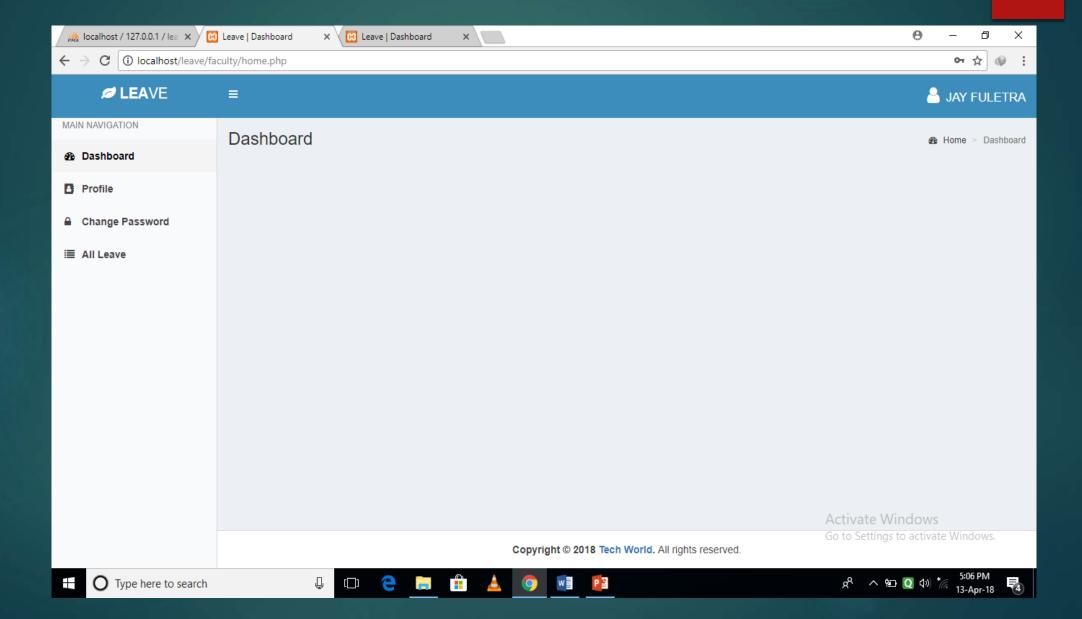
S.T.Bonafide Application Report
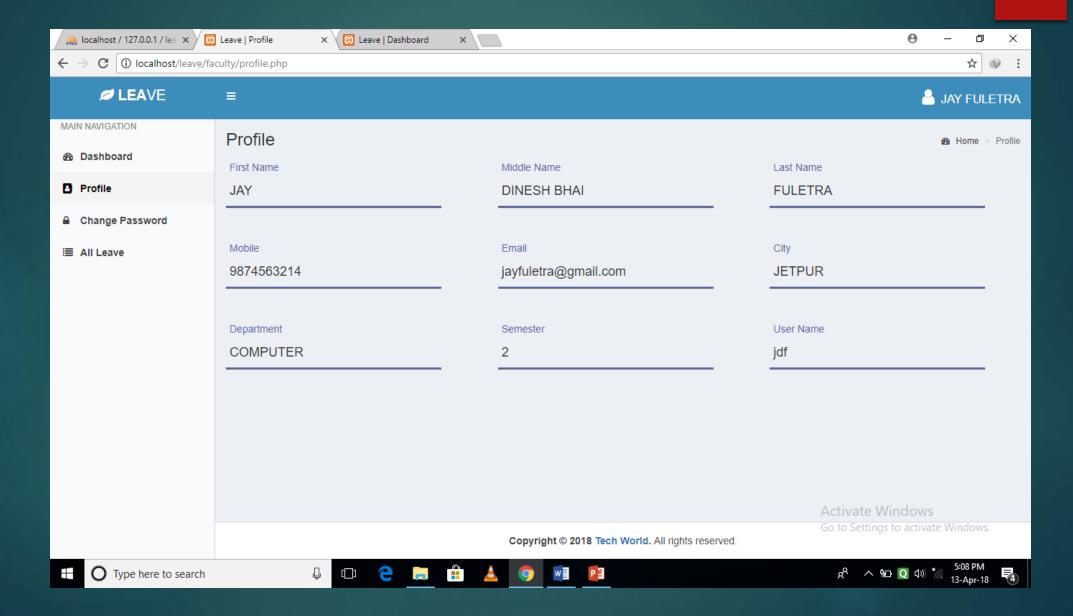
Faculty Login
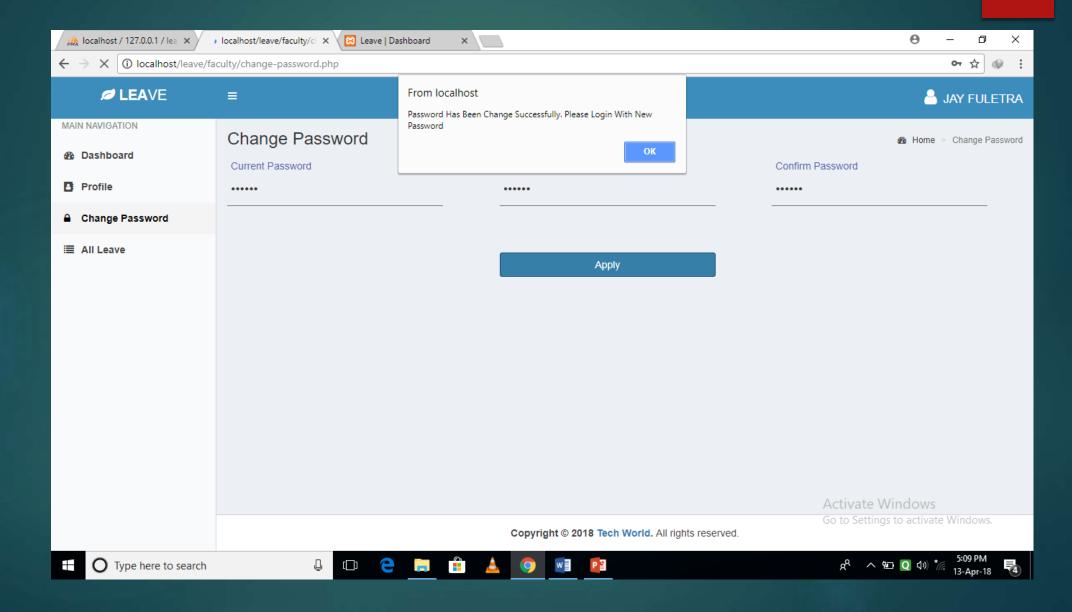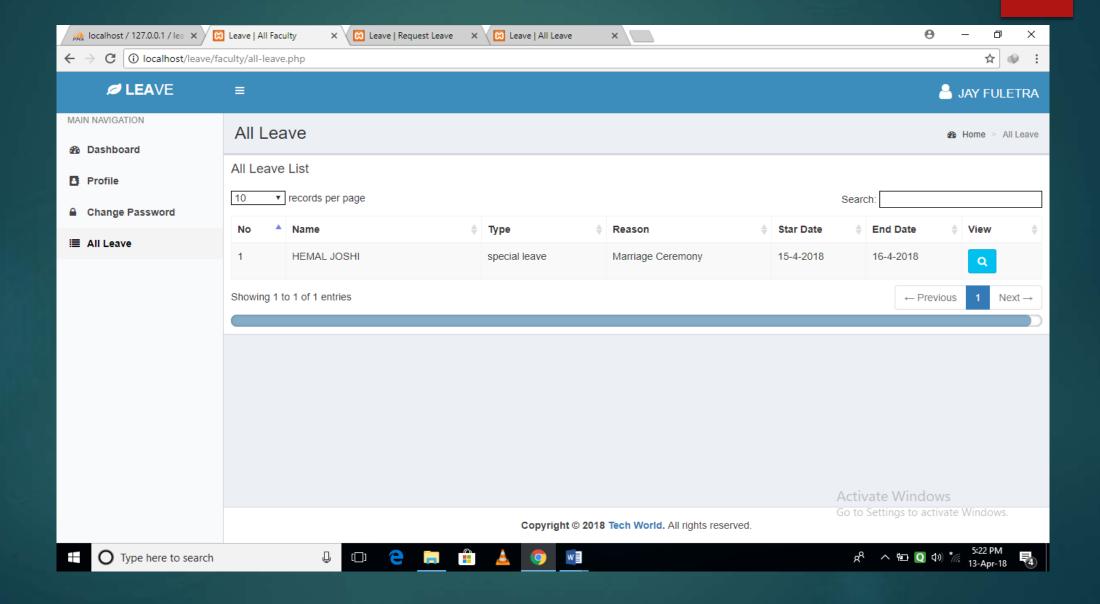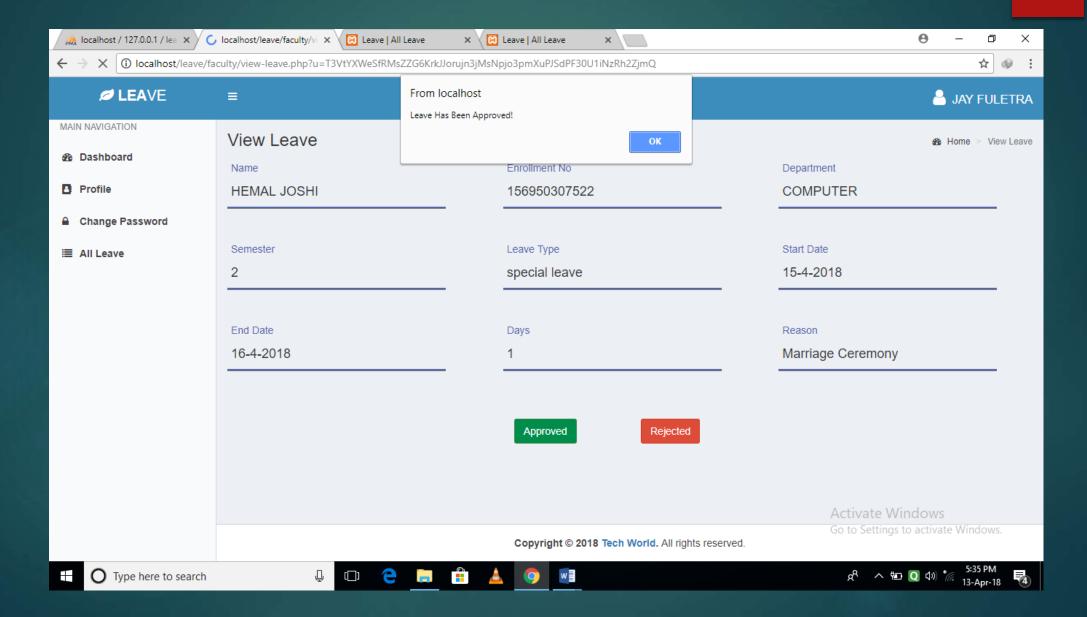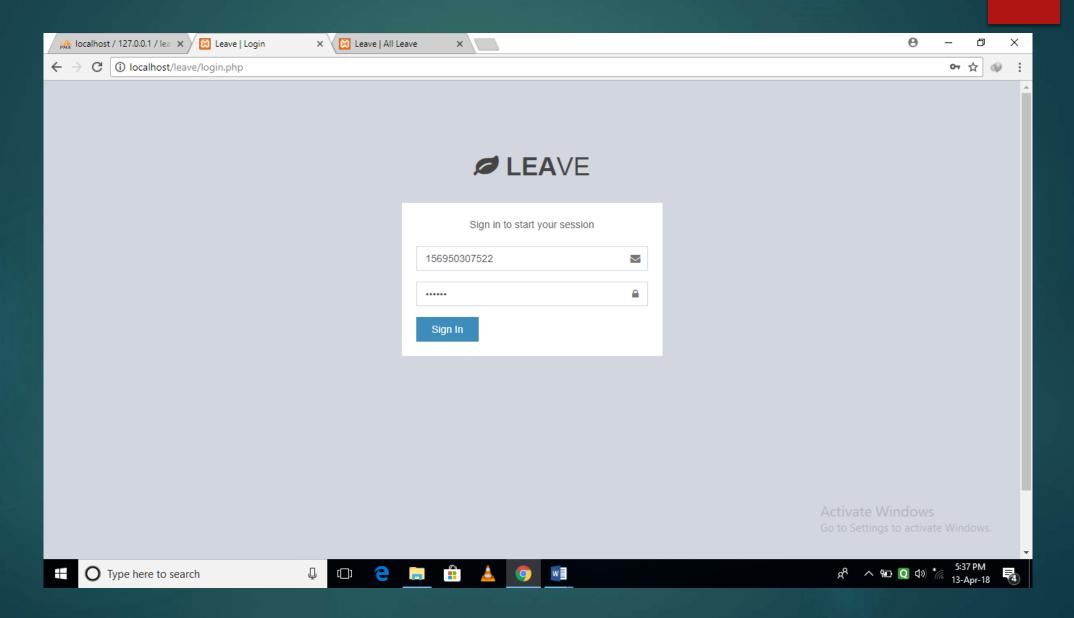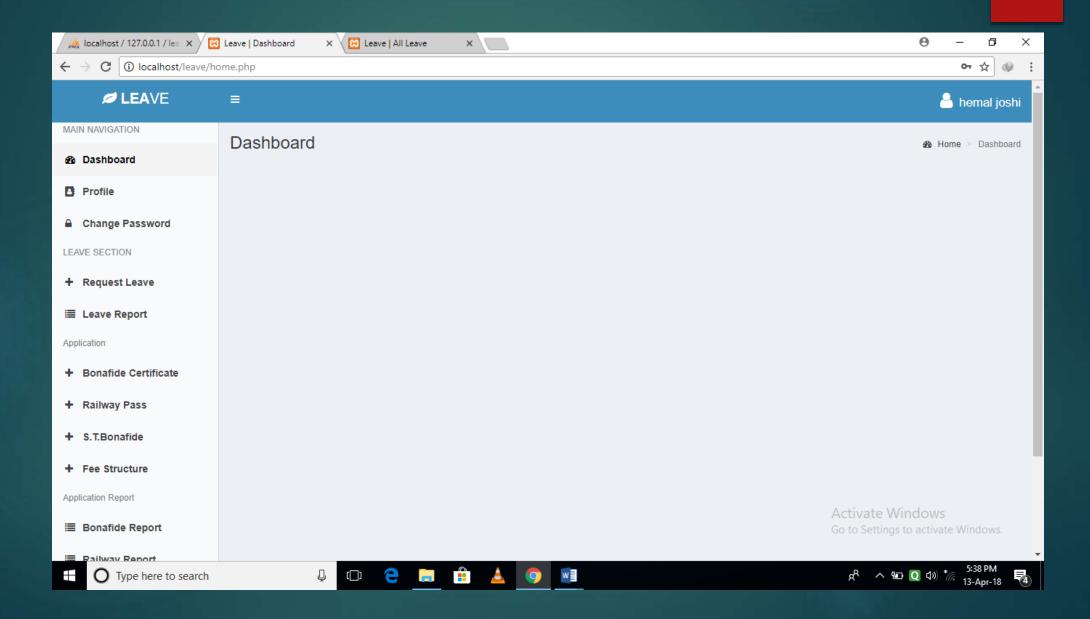
Faculty Dashboard

▶ Profile

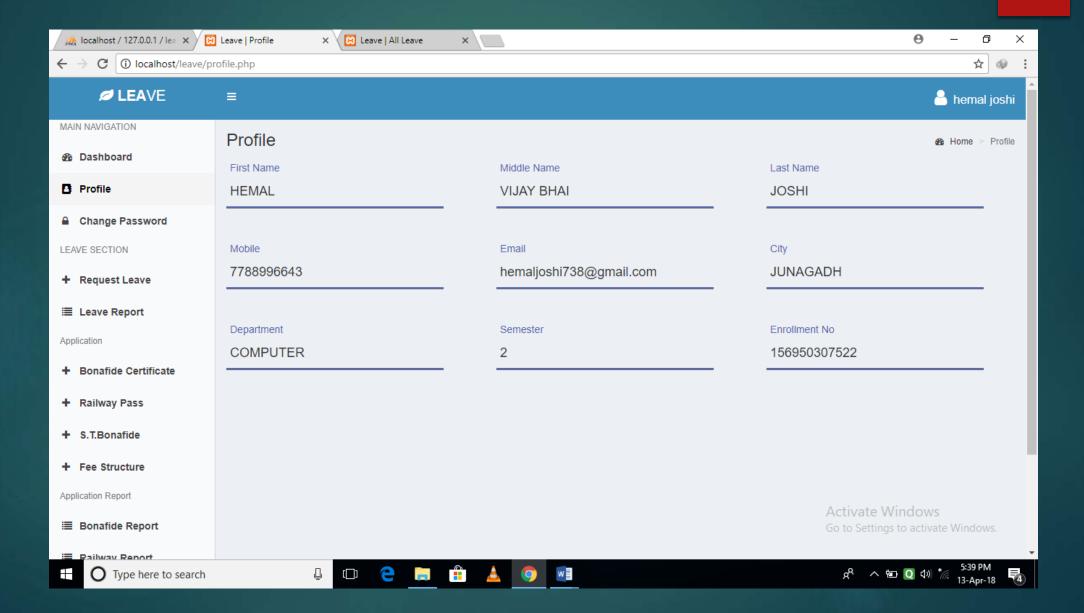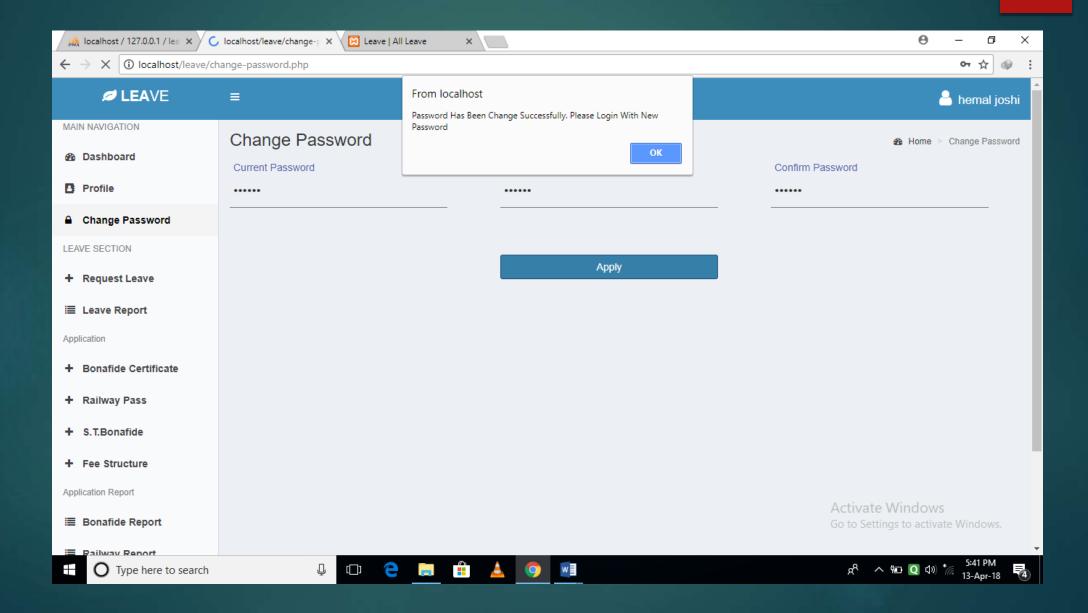# Change Password
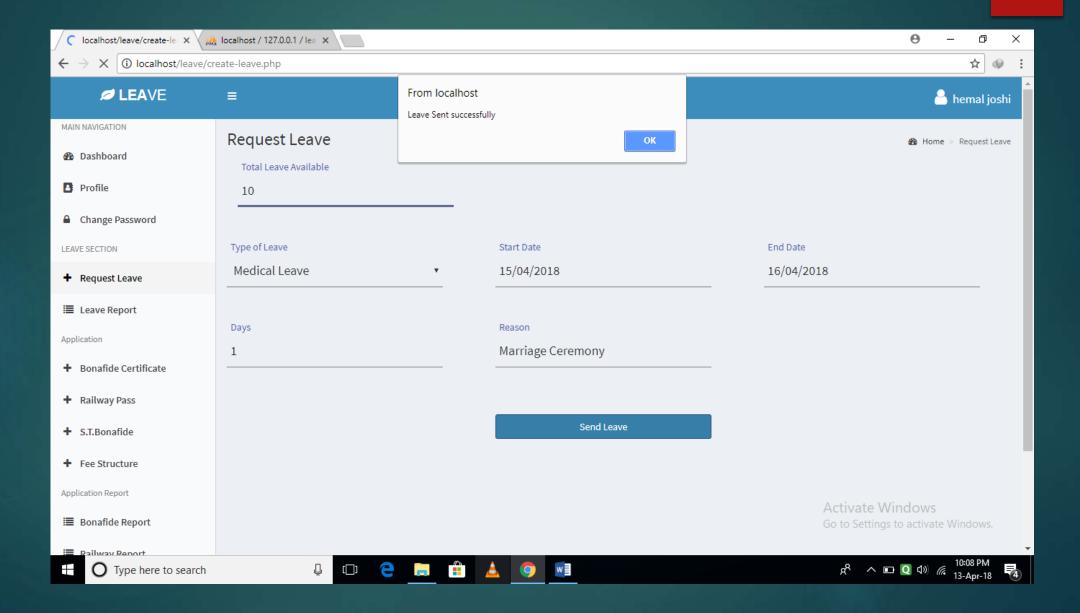
▶ All Leave

Leave (Approved)
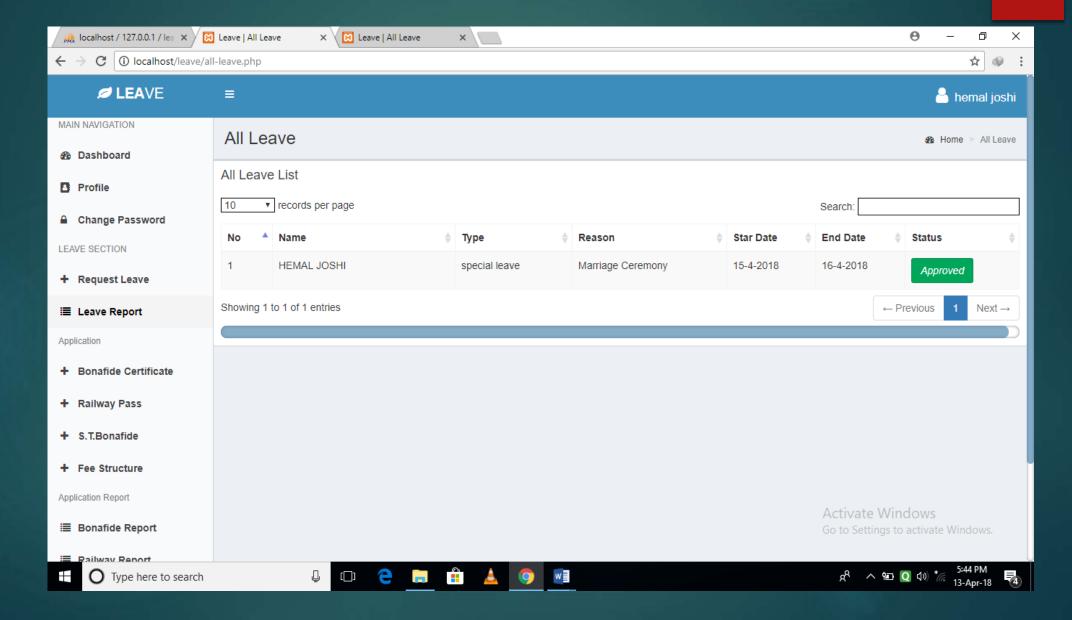
Student Login

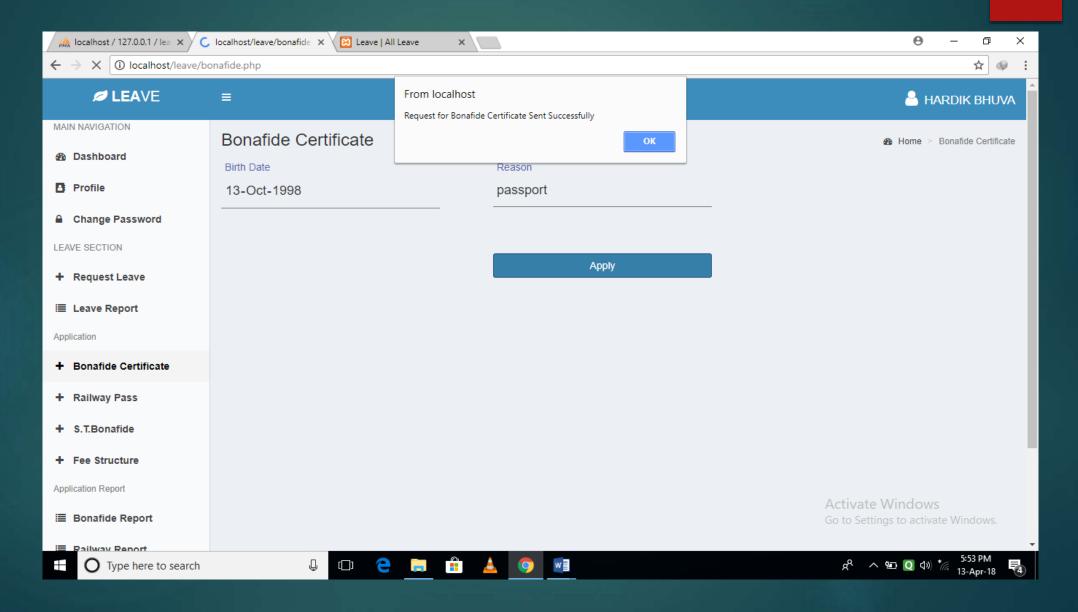# ▶ Student Dashboard

Profile

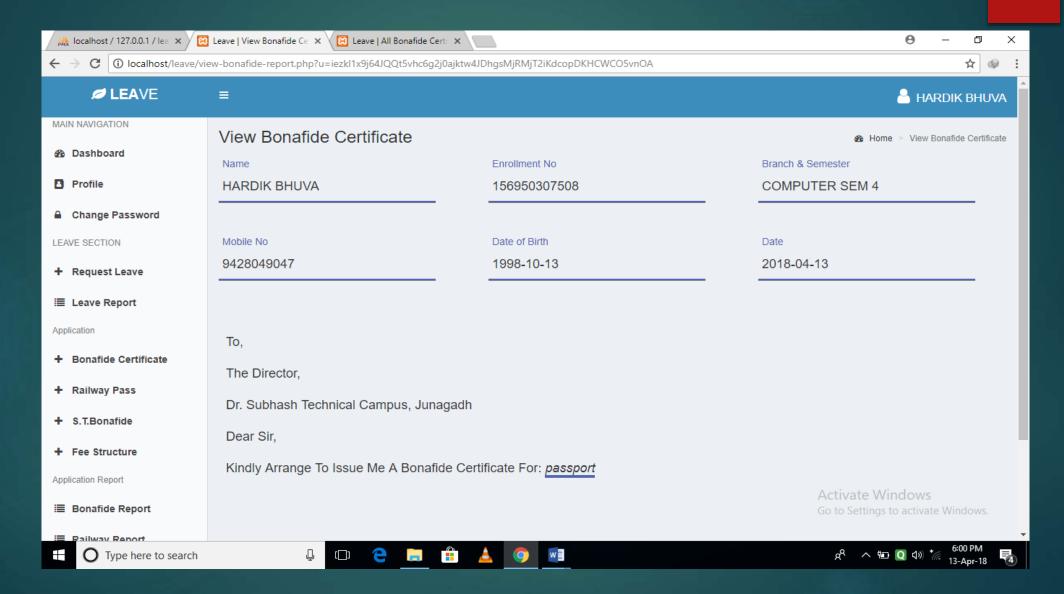# Change Password
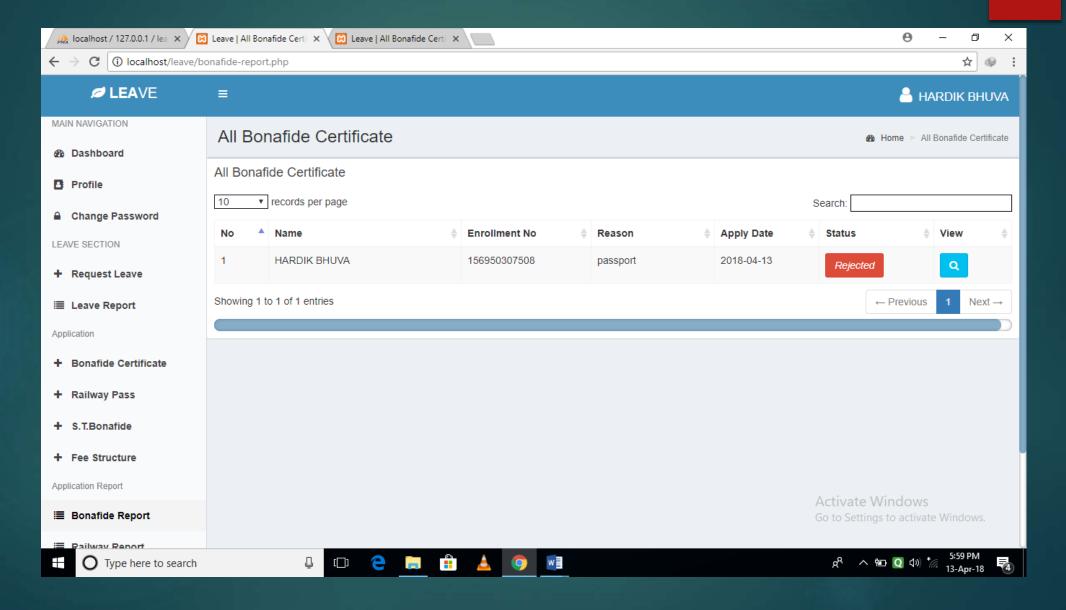
Request Leave

Leave Report

Bonafide Certificate Application

View Bonafide Certificate Application

Bonafide Certificate Application Report

Validation

▶ **Required field validation**

   It indicate filed must be required to enter.

▶ **First name, Middle name, Last name validation**

   It should be more than 3 alphabet required.

▶ **Mobile number validation**

   It should be 10 digits required and also unique.

▶ **Email address validation**

   Email address must be valid.

- **User name validation**

  User name minimum 3 digits and alphabet required.

- **Password validation**

  Password minimum 6 digits and alphabet required.

- **URL validation**

  URL will be change all time (unique).

Reference

Home » Employee Leave Applications » Create

Create Employee Leave Application

Operations

Leave Type	CL	RH	C Off
Total	12	2	2
Consume	1.5	0	2
Available	10.5	2	0

*Fields with * are required.*

Application Date *   03/07/2017 1:01:59 PM

Leave Type *   Select Leave ▼

Start Date *   [   ]   ☐ **Hint:-** "Check Checkbox for Halfday Leave"

End Date *   [   ]   ☐

Leave Days *   [   ]

Leave Purpose *   [   ]

[Create]

▶ Links

- **Website**

https://www.zoho.com/people/leave-management-system.html

https://planmyleave.com/TakeATour.aspx

https://www.slideshare.net/pratikmahorey/leave-management-system-15373132?qid=52549c9f-bd72-4b95-b435-0408b74695b0&v=&b=&from_search=1

https://www.slideshare.net/ayushigaur7359/leave-management-system-39206288?qid=52549c9f-bd72-4b95-b435-0408b74695b0&v=&b=&from_search=3

https://www.slideshare.net/GreytipOnline/leave-management-system-20387957?qid=52549c9f-bd72-4b95-b435-0408b74695b0&v=&b=&from_search=5

https://www.slideshare.net/1300bpo/leave-management-50889831?qid=52549c9f-bd72-4b95-b435-0408b74695b0&v=&b=&from_search=10

- **Book**

Book Name Fundamentals of Software Engineering

By (Madhav M. Ajwalia)

Thank you