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| **SEAT NUMBER:** | 380 |
| **PROJECT ID:** | 9 |
| **PROBLEM STATEMENT:** | MAILER |

1. **INTRODUCTION:**

Creating a responsive IQAC mailer using LAMP Stack. The LAMP stack is a widely-used open-source software bundle for web development. It consists of Linux as the operating system, Apache as the web server, MySQL as the database management system, and PHP as the programming language. LAMP provides a reliable and scalable environment for building dynamic websites and web applications, making it a popular choice for developers. This website comprises of two modules (Admin log page, Gmail Home Page(for both students and BIT committee).Login Page for logging in the page using student’s individual bitsathy email id, Home Page for viewing the inbox,sent mails,to compose mails and so on. Admin view page is to see the activity going on for the students on the daily basics and to check the priority when the timetable clashes for the committee and the student activities.

* 1. **PURPOSE:**

The Purpose of this document is to provide a detailed description of a mailer where the schedule of the students cannot get clashed and to avoid confusion among the committee members and the student activity. Through this document, we can understand the purpose and novelty of the project.

* 1. **REQUIREMENTS:**

1. Linux OS
2. Apache HTTP Server
3. MySQL Database Server
4. PHP,HTML,CSS, Javascript(Visual Studio Code/Sublime Code Editor) interpreter in the Linux OS System

**1.3 SCOPE OF THE PROJECT:**

* It is an open portal for students to view mails and to compose mails. They can view the mail received from the admin.
* Administrators have the power of authenticating the mail. If anyone wants to send the mail to anyone first it will be authenticated by the admin and then the admin checks if there is any clash .If not the mail will be sent otherwise the mail will not be sent to the receiver rather the admin will send the reply mail as the activity is suspended.

**1.4 SYSTEM OVERVIEW:**

**Users:**

1. **Students / BIT committee members :**

Students have to login the page using their bit-sathy email address. Students/BIT committee members have the facility to view mails inbox ,mails which have been sent and compose mail . But when they want to send the mail first the mail will be sent to the admin and then it will proceed further.

**2.** **Admin:**

Administrators have the power of authenticating the mail. If anyone wants to send the mail to anyone, first it will be authenticated by the admin and then the admin checks if there is any clash .If not the mail will be sent otherwise the mail will not be sent to the receiver rather the admin will send the reply mail as the activity is suspended or the mail is invalid. For example: if the Special labs committee want to send a mail to the students regarding meeting, the mail will be first sent to the admin and then the admin will authenticate,then the admin will check the current ongoing activity of the student in the corresponding year ,then the admin will check the priority if the admin decided to cancel the meeting then the admin will send the reply mail to the special labs committee that the mail you have sent has been suspended.

**1.2 PROJECT FLOW:**

* This Project opens with a user authentication (Login credential).
* If it pass user authentication (i.e. If the given mail id and password are correct) , then the php running in the login page will automatically direct us into a home page where we can view gmail.
* If the user authentication fails (i.e. If the given mail id or password is wrong), then an error message pops at the login page (“Invalid username or password”).
* After user authentication, an interactive gmail opens where students/BIT committee members can view mails and compose mails.
* According to Admin’s point of view, They will have activity log history of the students and the mails that have been sent by the students/BIT committee members.
* If the students/BIT committee have to send a mail to other members then the mail will be first received by the admin.
* After Admin’s side, the admin will check whether the mail is valid or not.
* If the mail received to the admin is valid, then the admin will forward to other member.
* If the mail is invalid,then the admin will send the reply mail that your mail is suspended/invalid.
* After this mail is sent to the corresponding member by the admin authentication.Without the admin authentication no mail will be sent.

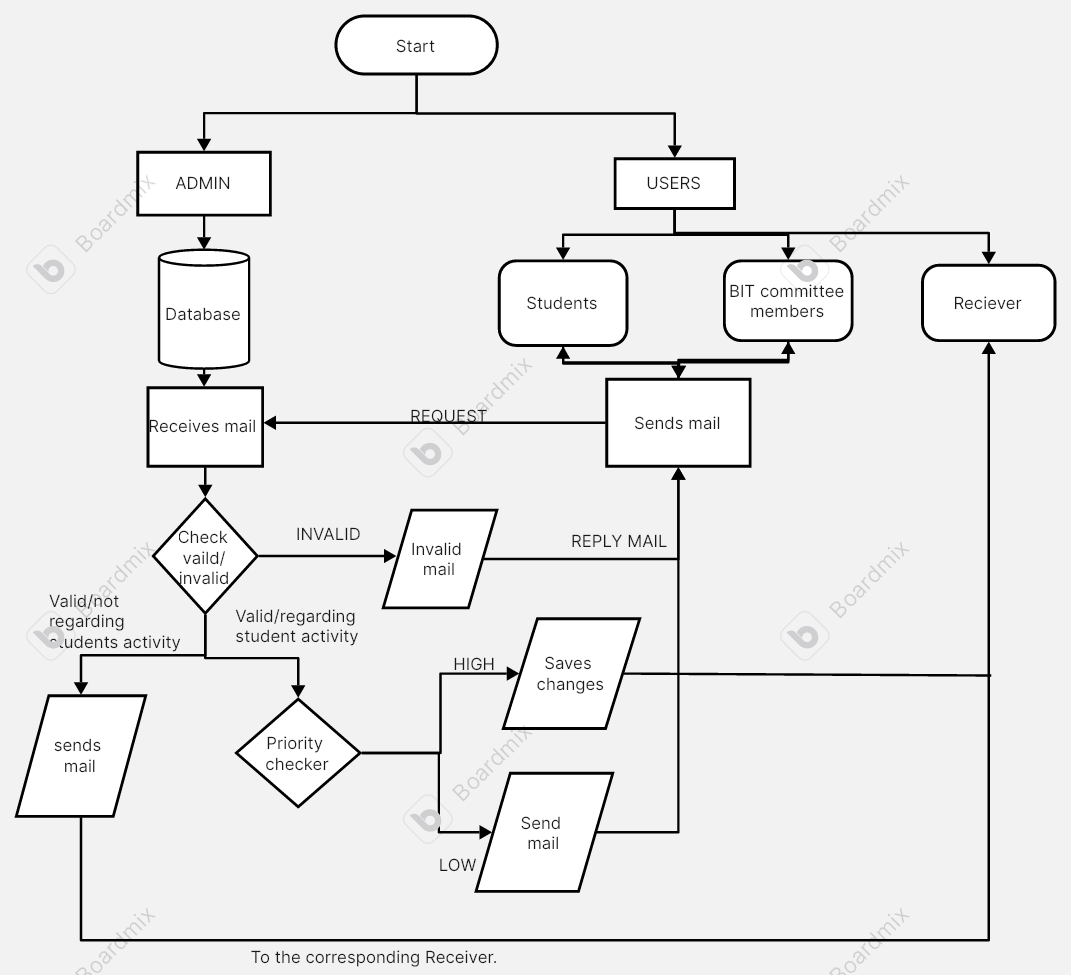
**3.1 WORKING MECHANISM:**

This Project uses a Linux-Based Server System which hosts the LAMP Components. In this project, Linux is preferred over Windows because it is designed to handle high workloads and can operate continuously without requiring frequent reboots. The Working Mechanism of this website includes,

1. When we write the Site Name in the Search bar, then Apache Server receives the HTTP request and starts running the PHP based on the requested site or URL.
2. After that, A Login Page pops up which needs user authentication (like the Login system opens when we sign in with our Bit Sathy email id).
3. When the given Email Id and Password are correct then the PHP running in the login site will automatically direct into a home page of gmail.
4. If the user's email or password is wrong, then the error message will pop up at the login site which is triggered by the JavaScript.
5. When the user authentication succeeds, a Home page will appear which consists of a gmail homepage.
6. According to the admin, the home page will open which consists of an activity log of students.
7. On the other side, the admin will have the mails that have been sent by the users.
8. All the acidity log history and mail composed,sent will be stored in the database(mysql database).
9. For evaluation, Admin’s have the power to view the mails that have been sent by the user and check whether it is valid and admin will check if there is any clash with the students current activity.
10. After this the mail will be sent to the corresponding receiver by the admin.

**1.2** **WORKFLOW CHART:**

**User Interface:**

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