
Department Bulletin Board

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Introduction

- The Online Bulletin Board System is intended for colleges and institutions where information and file sharing on a regular basis plays a vital role in the performance.
- The proposed system will act as an online notice board which will make use of modern communication methodologies and techniques for information flow.
- The proposed system aims to create a platform for issuing notices, sharing information and files between the members of the institution.
- In the context of a college, there shall be 3 users of the software-Administrator, student, teacher.

Problem Statement:

In today's world, everything is digitalized and paper is being used less and less every day. How often has it happened that we miss some important notice because we have to go to a wall and read the notice there? There are dedicated file hosting sites and clouds used by some institutions, but there is a definite need for dedicated noticeboard system. The proposed system is such a system.





Modules

User Module

- ◆ Admin
- ◆ Staff
- ◆ Student

Subject Module

Event Module

Department Module

User Module

1) Admin

- Admin has the overall control of the website
- Admin has ability to manage all data and information.

2) Staff

- Staffs can edit their account and view other staffs & details
- Staffs can able to view their department subject
- If they have a department function they will notified

User Module

3) Student

- *Students can create & update account.*
- *Once their account is valid, they can login using created account.*
- *Student can view their subject.*
- *If they have any department function they will be notified.*

Subject Module

- *Students and staffs can see their departments subject list.*
- *In this module the list of subject displayed*

Event Module

- *This module is visible for both students and staff*
- *Department functions ,events and holidays are posted here.*
- *The event date also notified to staffs and students.*

Department Module

- *Number of department names are listed here.*
- *This is only visible for admin*
- *Hod's and department id's were provided for each department.*

Technology Stack:

FRONT END:



TypeScript



Angular

BACK END



Disadvantage of Existing System:

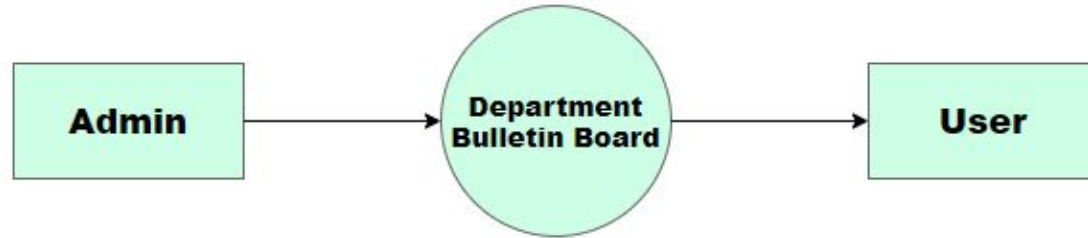
- Bulletin boards can be distracting to students.
- Student Fairness
- Clutter and Confusion
- Sharp Object
- Not very Green

Advantages of Proposed System:

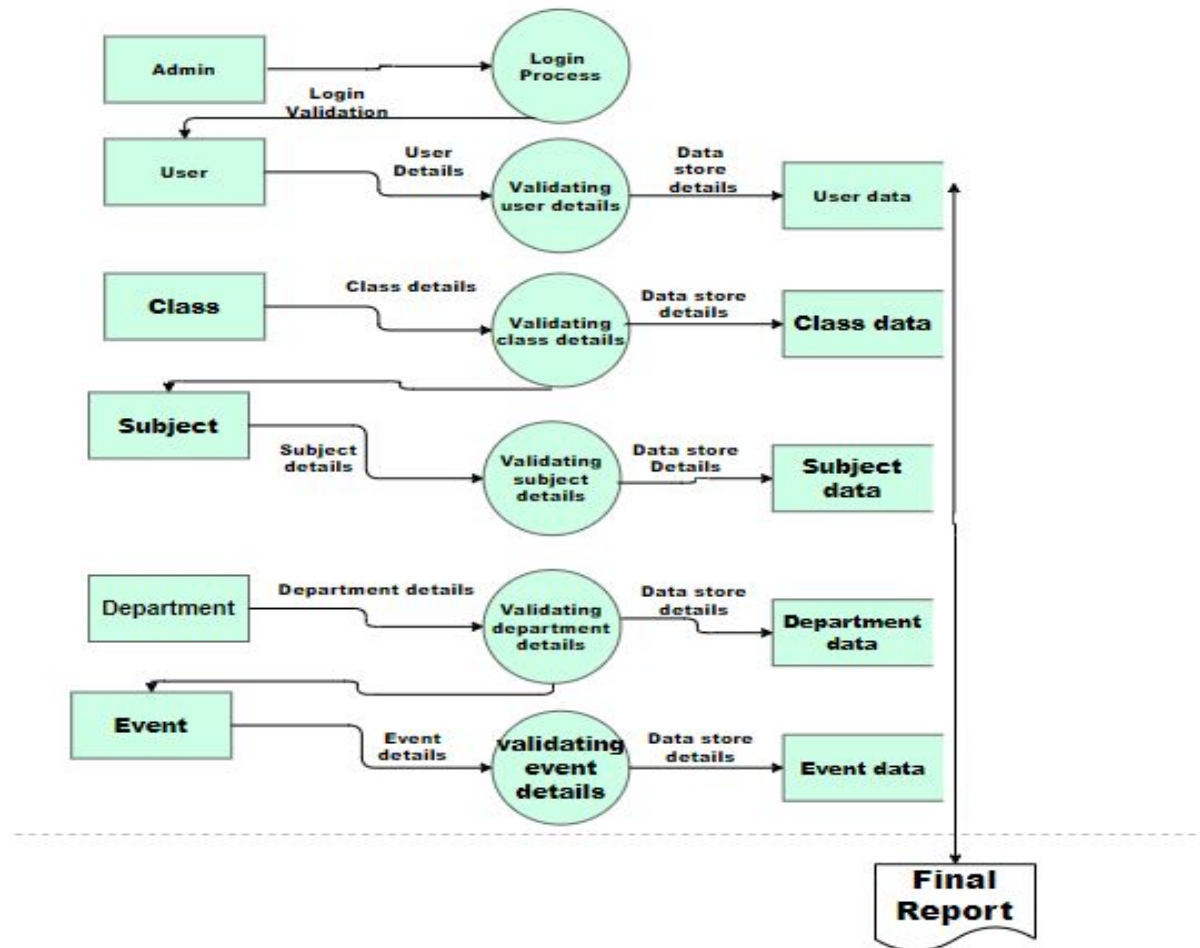
- Effective
- Budget-friendly
- Eco-Friendly
- Portable
- Scalable
- Easy to use

Data Flow Diagram:

Level 0



Level 1



ER-Diagram

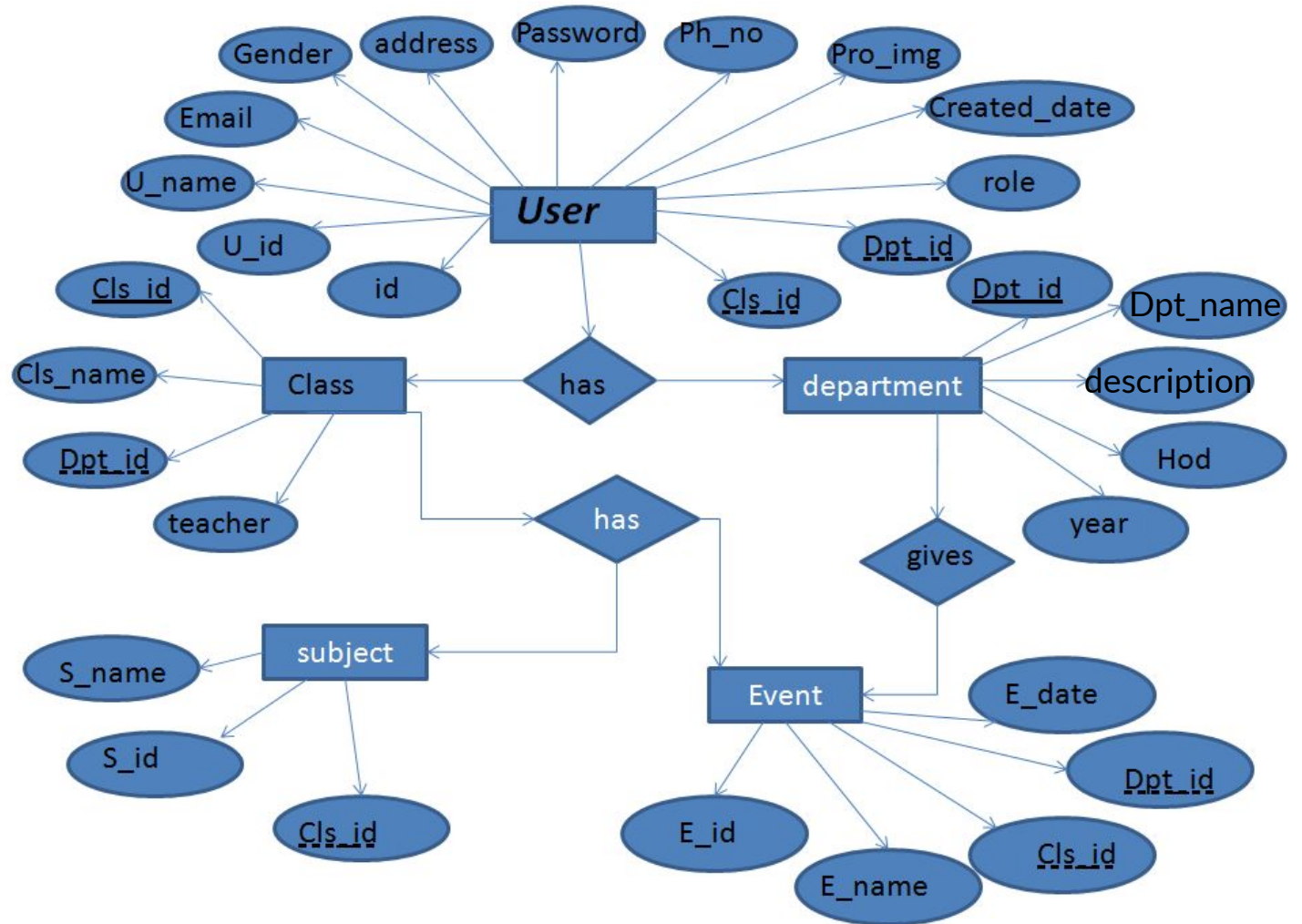


Table Design

User

Column name	Datatype	Size	Constrains	Description
id	int	11	Primary key	Id of the user account
User_id	varchar	45	Not null	User id
User_name	varchar	100	Not null	Name of the user
email	varchar	100	Not null	Email
gender	varchar	45	Not null	Gender of the user
address	varchar	255	Not null	Address of the user

password	varchar	45	Not null	Password
phone_number	varchar	15	Not null	Phone_number
profile_image_url	varchar	100	Not null	Profile picture of the user
Cls_id	int	11	Foreign key	Class of the user
Dpt_id	int	11	Foreign key	Department of the user
role	int	11	Not null	Role of the user
created_date	datetime	20	Not null	User id created date

Class

Column Name	Datatype	Size	Constrains	Description
C_id	int	11	Primary key	Class id
C_name	varchar	45	Not null	Name of the class
teacher	int	11	Not null	Attending Teachers
Dpt_id	int	11	Foreign key	Department id

Department

Column Name	Datatype	Size	Constraints	Description
Dpt_id	int	11	Primary key	Department id
Dpt_name	varchar	45	Not null	Name of the Department
description	varchar	45	Not null	Description of the department
hod	int	11	Not null	Allocated hod
year	varchar	45	Not null	Establishing Year of the department

Subject

Column name	Datatype	Size	Constrain	Description
S_id	int	11	Primary key	Subject id
S_name	varchar	45	Not null	Name of the subject
C_id	int	11	Foreign key	Subject taken for class

Event

Column name	Datatype	Size	Constrains	Description
E_id	int	11	Primary Key	Event id
E_name	varchar	100	Not null	Name of the Event
Dpt_id	int	11	Froeign key	Event conected for the Deaprtment
C_id	int	11	Froeign key	Event conected for the Class
event_date	datetime	20	Not null	Event date



Thank You