



PROJECT REPORT

Student Domain CRUD

Submitted By

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GITHUB Link

<https://github.com/Priyansuvaish/project>

ACKNOWLEDGEMENT

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Introduction

The Student Domain CRUD System aims to facilitate the administration department's tasks by providing a platform to manage domains, their capacities, qualifications required, and view students within specific domains. The system ensures efficient data management and user access control for authorized personnel.

Implementation

We implement this using the following technologies:

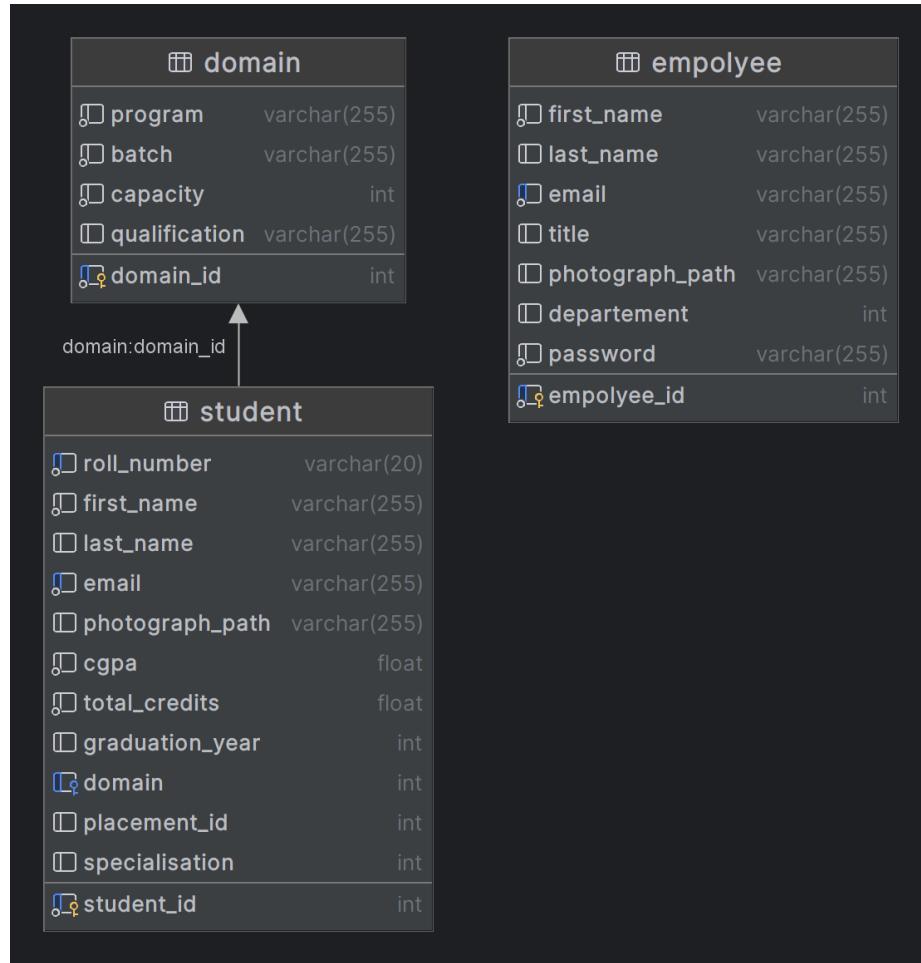
For the front end we use:

- HTML
- CSS
- JavaScript

For Backend we use:

- MySQL
- Spring Boot

UML Diagram of the Database



OR Mapping

For domain:

Attributes	Type	NULL	KEY	EXTRA
domain_id	int	NO	PRIMARY	auto_increment
program	varchar(255)	NO		
batch	varchar(255)	NO		
capacity	int	NO		
qualification	varchar(255)	YES		

For employee:

Attributes	Type	NULL	KEY	EXTRA
department	int	YES		
email	varchar(255)	NO	UNIQUE	
employee_id	int	NO	PRIMARY	auto_increment
first_name	varchar(255)	NO		
last_name	varchar(255)	YES		
password	varchar(255)	NO		
photograph_path	varchar(255)	YES		
title	varchar(255)	YES		

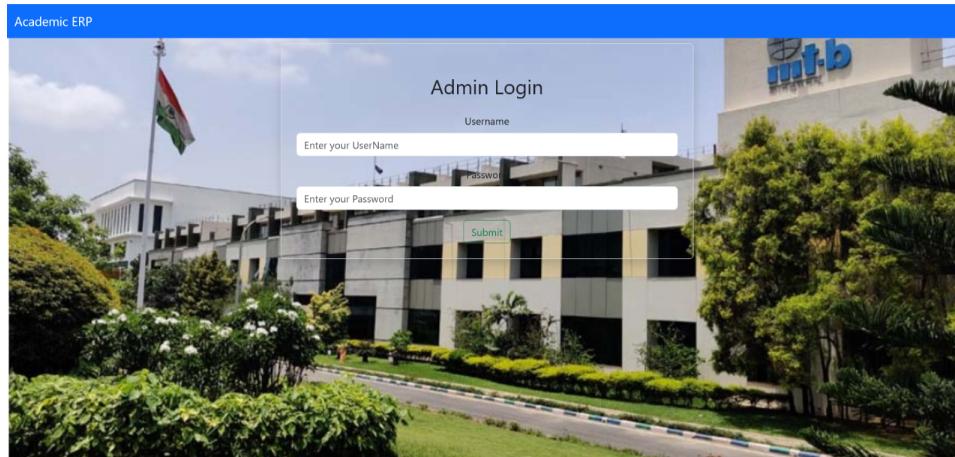
For student:

Attributes	Type	NULL	KEY	EXTRA
student_id	int	NO	PRIMARY	auto_increment
roll_number	varchar(20)	NO	UNIQUE	
first_name	varchar(255)	NO		
last_name	varchar(255)	YES		
email	varchar(255)	NO	UNIQUE	
photograph_path	varchar(255)	YES		
cgpa	float	NO		
total_credits	float	NO		
graduation_year	int	YES		
domain	int	YES	FOREIGN	
placement_id	int	YES		

specialisation	int	YES		
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Functionalities

- **Employee Login:** Allows authorized admin department employees to access the system securely.

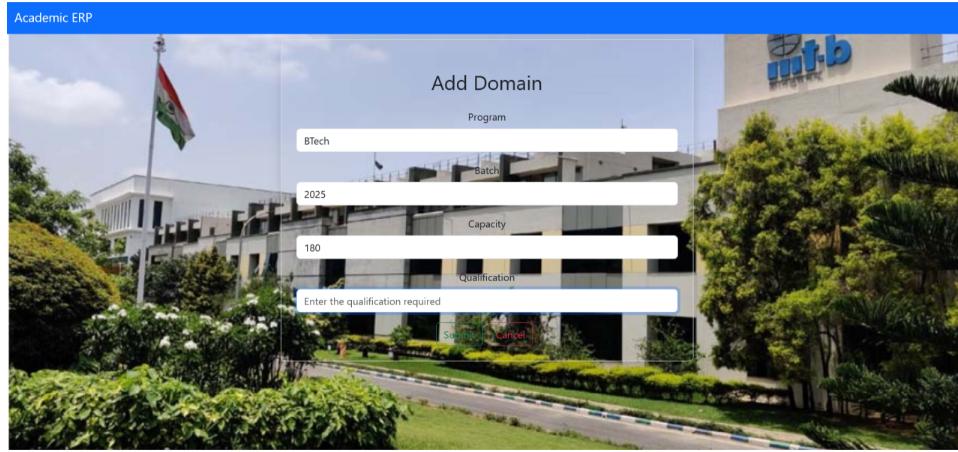


- **Add and Modify Domains:** Permits addition and modification of domain details including name, capacity, and required qualifications.

Academic ERP

Domains					
Domain ID	Program	Batch	Capacity	Qualification	Action
1	iM.Tech CSE	2023	18	School	<button>View Students</button> <button>Edit Domain</button>
2	iM.Tech ECE	2023	150	School	<button>View Students</button> <button>Edit Domain</button>
3	M.Tech CSE	2023	180	Graduation	<button>View Students</button> <button>Edit Domain</button>
4	M.Tech ECE	2023	30	Graduation	<button>View Students</button> <button>Edit Domain</button>
5	M.Sc. DT	2023	30	Bachelors	<button>View Students</button> <button>Edit Domain</button>
6	PHD	2023	20	Masters	<button>View Students</button> <button>Edit Domain</button>
7	MBA	2023	150	Graduation	<button>View Students</button> <button>Edit Domain</button>
8	Digital Society	2025	50	graduation	<button>View Students</button> <button>Edit Domain</button>

Click the "Add Domain" button, then enter the required data to add the domain.



Click the “Submit” button, to add the domain.

Domain ID	Program	Batch	Capacity	Qualification	Action
1	iM.Tech CSE	2023	18	School	<button>View Students</button> <button>Edit Domain</button>
2	iM.Tech ECE	2023	150	School	<button>View Students</button> <button>Edit Domain</button>
3	M.Tech CSE	2023	180	Graduation	<button>View Students</button> <button>Edit Domain</button>
4	M.Tech ECE	2023	30	Graduation	<button>View Students</button> <button>Edit Domain</button>
5	M.Sc. DT	2023	30	Bachelors	<button>View Students</button> <button>Edit Domain</button>
6	PHD	2023	20	Masters	<button>View Students</button> <button>Edit Domain</button>
7	MBA	2023	150	Graduation	<button>View Students</button> <button>Edit Domain</button>
8	Digital Society	2025	50	graduation	<button>View Students</button> <button>Edit Domain</button>
9	BTech	2025	180	Intermediate	<button>View Students</button> <button>Edit Domain</button>

- **View Students by Domain:** Enables the display of students associated with a specific domain.

Roll Number	First Name	Last Name	Email	Graduation year
4	Yash	Pandey	Yash.Pandey@iitb.ac.in	2025
6	API Abdul	Kalam	ApjAbdul.Kalam@iitb.ac.in	2025
3	Yash	Gupta	Yash.Gupta@iitb.ac.in	2025
10	Elon	Musk	Elon.Musk@iitb.ac.in	2025