A PROJECT REPORT

ON

Faculty Portal - Faculty Profile Management Module

By

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CERTIFICATE

This is to certify that the practical / term work carried out in the subject of

System Design Practice

and recorded in this journal is the bonafide work of

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Abstract:

This is system for managing faculty's profile details. In this system faculties can't register themselves, but admin or module admin register them. After registration faculty will get their username and temporary password, using which they can log in tot the system.

After login they can add their profile details, which includes attend events, conducted events, organized events and research papers. After adding profile details the can manage their details appropriately. They can also upload certificates related to some events.

This system also provides filter functionality, using which faculty can search their profile details easily. It also provides functionality for exporting details in csv file. In this system faculties can manage their profile details easily with less manual efforts and time.

Introduction:

This project is for managing faculty's profile. There are mainly three roles for users which are faculty, admin and module admin. According to their roles users can perform different actions.

Admin or module admin can register any new faculty. They can also update registered details for any faculty. They can disable any faculty account, after that faculty can't log in to the system. Admin can change roles of any user. They can also view all the faculties and their publication details.

Faculty can add their profile details, which includes details of their attended, organized or conducted events and publications (research papers – conference or journal) made by them. They can upload certificate or proof for any events. They can view all their events or publications. Faculty can also update details of their profile after adding them. They can delete any events or publications.

There are some other features like update account, forgot password and change password. In update account any user can update their account details like birth date, name, email, gender and qualification, but then can't update details like department, designation and join date.

<u>Technologies</u>:

- JavaScript
- React JS
- Express JS
- > MYSQL
- Material UI

<u>Tools :</u>

- Visual Studio Code
- PhpMyAdmin
- ➢ Git

Platform:

Local Development Server

<u>Software Requirement Specifications (SRS):</u>

Types of User:

- > Admin
- Faculty

System Functional Requirements:

R.1 Manage Account

R.1.1 Login

- Description: User have to sign in for use functionality of web application.
- Input : Username and password.
- Output : Home page will be displayed.

R.1.2 Forgot Password

- Description : User can change the password if one forgot it. Reset link will be sent to specified email address.
- ➤ Input : Email id
- Output : Reset password link will be sent.

R.1.3 Change Password

- > Description: User can change his/her password after login to the system.
- > Input: Old and New password.
- Output : Appropriate message.

R1.4 Update/View Account Details

- Description: User can view or update his/her account details.
- Input : New account details (If any).
- Output : Appropriate message.

R.2 Manage Event Attended

User can manage their attended event details in this module. In this module user can add details of attended events like workshop, seminar, STTP, FDP etc. User can edit or delete existing event details. User can also upload certificate and manage it appropriately.

R.2.1 Add Event Details

- Description : User can add their event details or upload certificates.
- Input : Event details and scanned copy of certificate (if any)
- Output : Appropriate message

R.2.2 Update Event Details

- > Description : User can update their event details or certificate.
- > Input: Updated details and new certificate
- Output : Appropriate message

R.2.3 Delete Event Details

- Description : User can delete their event details.
- > Input : Select event.
- Output : Appropriate message.

R.2.4 View/Download Event Details

- > Description : User can view/download their event details or certificate.
- > Input : Selected event.
- > Output : Event details or certificate.

R.3 Manage Event Conducted

User can manage their conducted event details in this module. In this module user can add details of conducted events like workshop, seminar, STTP, FDP etc. User can edit or delete existing event details. User can also upload certificate and manage it appropriately.

R.3.1 Add Event Details

- Description : User can add their conducted event details
- > Input : Event details
- Output : Appropriate Message

R.3.2 Update Event Details

- Description: User can update their conducted event details or guest details.
- > Input : Enter new details
- Output : Appropriate Message

R.3.3 Delete Event Details

Description : User can delete their Event details.

➤ Input : Selected event

Output : Appropriate message

R.3.4 View/Download Event Details

Description : User can view/download their event details or certificate.

> Input : Selected event

Output : Event details or certificate.

R.4 Manage Event Organized

User can manage their organized event details in this module. User can add details of organized events like workshop, seminar, STTP, FDP etc. User can edit or delete existing event details. User can also upload certificate and manage it appropriately.

R.4.1 Add Event Details

Description : User can add their organized event detail

➤ Input : Event details

Output : Appropriate Message

R.4.2 Update Event Details

Description: User can update their Organized Event details.

> Input : Enter new details

Output : Appropriate Message

R.4.3 Delete Event Details

Description : User can delete their Event details.

> Input : Select details

Output : Appropriate message

R.4.4 View/Download Event Details

Description : User can view/download their event details or certificate of particular event

> Input : Select event

Output : Event details or certificate

R.5 Manage Publications

User can manage their publication's details in this module. User can add conference and journal details and also can edit or delete existing publication details.

R.5.1 Add Publication Details

- Description : User can add publication details in this function.
- Input : publication details
- > Output : Appropriate Message

R.5.2 Update Publication Details

- Description : User can update their publication details.
- > Input : Enter new details
- Output : Appropriate Message

R.5.3 Delete Publication Details

- Description : User can delete their Publication details.
- > Input : Selected publication
- Output : Appropriate message

R.5.4 View/Download Publication Details

- Description: User can view/download their publications details.
- Input : Selected publication
- Output: Publication details

R.6 Manage Faculty Details

Admin or module admin can use this functionality. They can register new faculty and view all faculties details. They can also disable existing faculty account.

R.6.1 Register Faculty

- > Description : User can register faculty in this function.
- Input : Faculty details
- Output : Appropriate Message (notification will be sent to registered faculty)

R.6.2 Update Faculty Details

- > Description : User can update details of specific faculty.
- ➤ Input : Enter new details
- > Output : Appropriate Message

R.6.3 Disable Faculty Account

- > Description : User can disable faculty account.
- > Input : Selected faculty
- > Output : Appropriate message

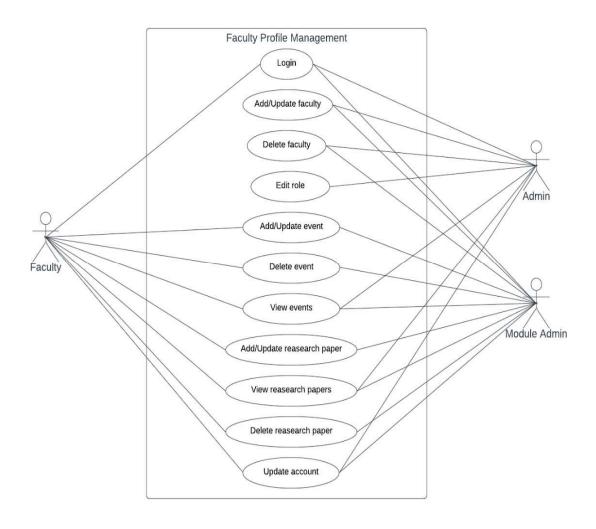
R.6.4 View Faculty Details

> Description : User can view faculty's details.

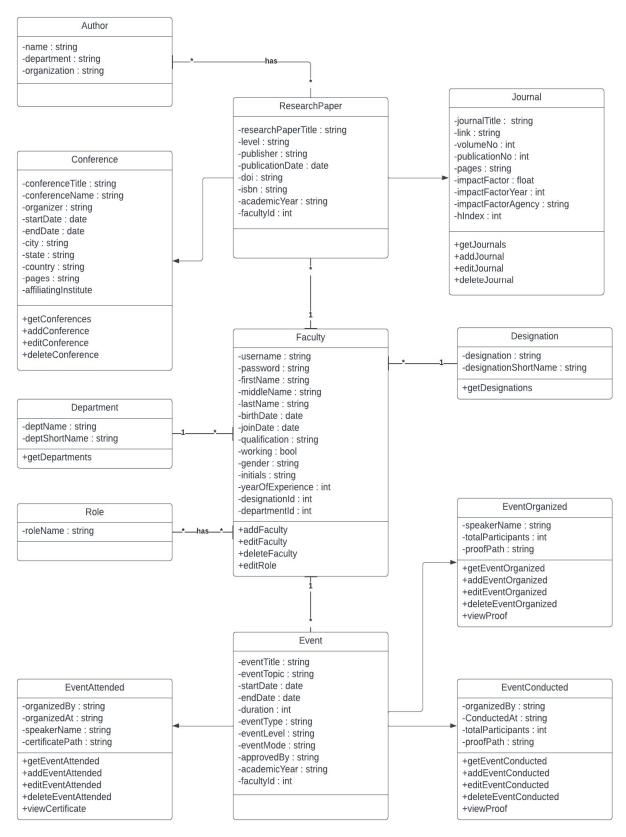
Input : Selected facultyOutput : Faculty details

Design:

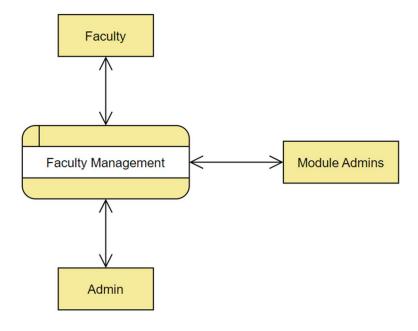
<u>Use-Case Diagram:</u>



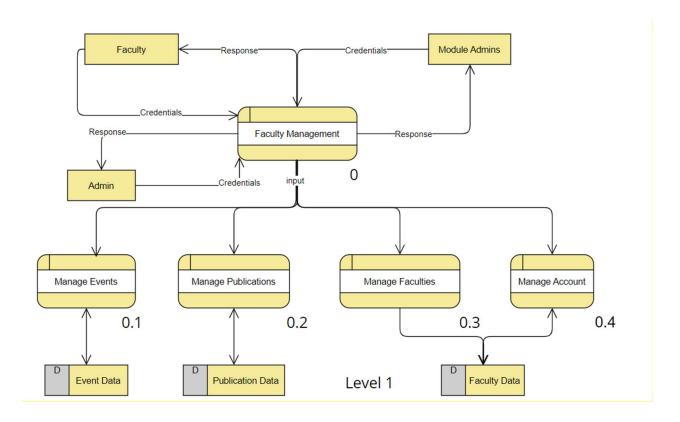
<u>Class Diagram :</u>

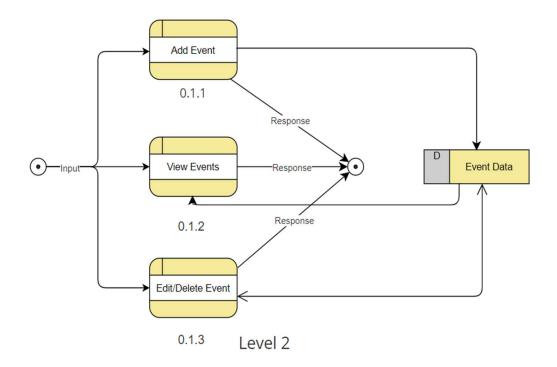


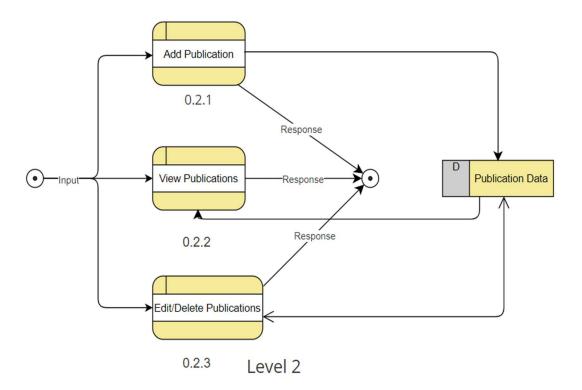
Data Flow Diagram:

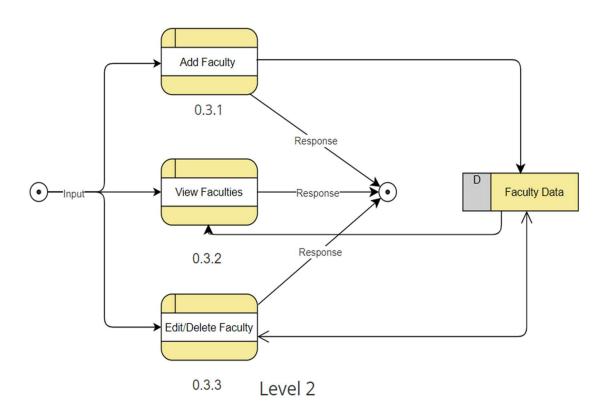


Level 0

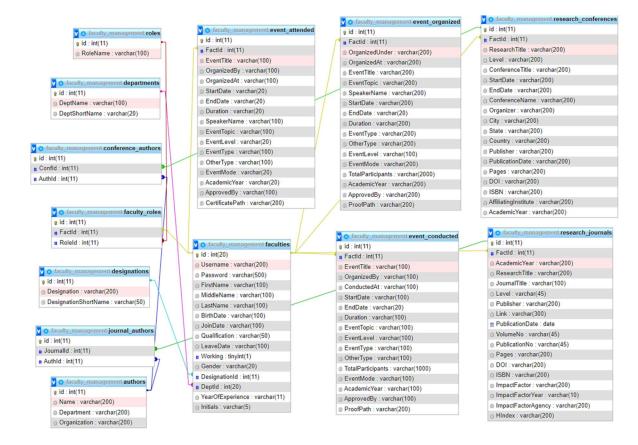








ER Diagram:



Implementation Details:

Modules created are as below:

Manage Faculties:

This module contains functionalities like view all faculties, register new faculty, update faculty details and disable faculty account.

- · Add or Update faculty
 - Add faculty details / update selected faculty details
 - Click on the given button
 - > Faculty will be added / faculty details will be updated
- View faculties
 - Select appropriate link for viewing faculties
 - List of all the faculty will be displayed with edit and delete button for each faculty
 - View / Download csv file
- Delete faculty
 - Select faculty which needs to be deleted
 - System will ask for confirmation
 - > If yes is selected faculty will be deleted

Manage Events:

There are 3 sub modules under this module. Each for different type of event which are event-attended, event-organized and event-conducted.

Each sub module contains functionalities like view events, add new event, update event details, and delete events.

- Add or Update event
 - Add event details and upload certificate (if any) / update selected event details and certificate
 - Click on the given button
 - > Event will be added / event details will be updated
- View events

- > Select appropriate link for viewing events
- List of events belonging to current logged in faculty will be displayed with edit, delete and view certificate (if uploaded) button for each event
- View / Download csv file
- Delete event
 - Select event which needs to be deleted
 - System will ask for confirmation
 - If yes is selected event will be deleted

Manage Publications:

This module contains functionalities like add research-paper, view research-papers, update research-paper details and delete research-paper.

- Add or Update research-paper
 - Select type (conference or journal) of the research-paper to add (in case of update research-paper type will has been already selected)
 - > Add research-paper details / update research-paper details
 - Click on the given button
 - > Research-paper will be added / research-paper details will be updated
- View research-papers
 - Select appropriate link for viewing research-papers
 - > Select type (conference, journal or both) of the research-paper
 - ➤ List of research-papers belonging to current logged in faculty will be displayed with edit and delete button for each research-paper
 - View / Download csv file
- Delete research-paper
 - Select research-paper which needs to be deleted
 - System will ask for confirmation
 - > If yes is selected research-paper will be delete
- View all research-papers
 - Select appropriate link for viewing all the research-papers
 - > Select type (conference, journal or both) of the research-paper
 - List of research-papers belonging to any faculty will be displayed
 - View / Download csv file

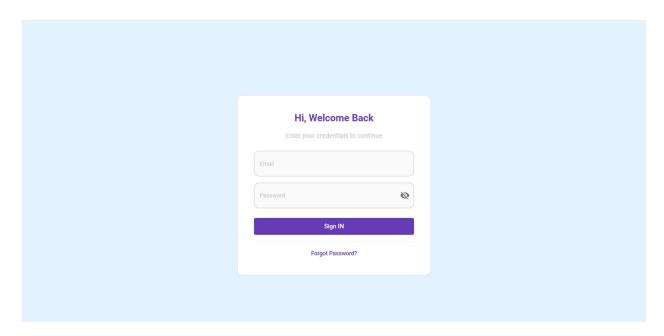
Testing:

Manual testing is performed in order to find and fix the bugs in development process.

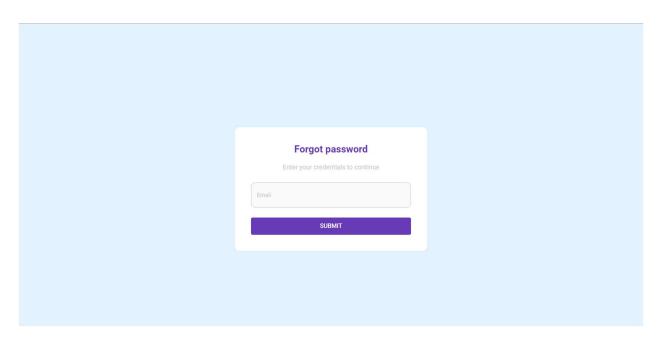
Sr No.	Test Scenario	Expected Result	Actual Result	Status
1	Add Event details of Faculty	Event details should be added to database.	Event details is added to database.	Success
2	Update Event details of Faculty	Event details should be updated to database.	Event details is updated to database.	Success
3	Delete Event details of Faculty	Event details should be erased from database.	Event details is erased from database.	Success
4	Download Certificate of Faculty	Certificate should be downloaded.	Certificate is downloaded successfully.	Success
5	Add Publications details of Faculty	Publications details should be added to database.	Event details is added to database.	Success
6	Update Publications details of Faculty	Publications details should be updated to database.	Event details is updated to database.	Success
7	Delete Publications details of Faculty	Publications details should be erased from database.	Event details is erased from database.	Success
8	Register Faculty	Faculty's Registration should be done.	Faculty's Registrations done successfully.	Success
9	Update Faculty Details	Faculty details should be updated from database.	Faculty details is updated to database.	Success

Snapshots of the System:

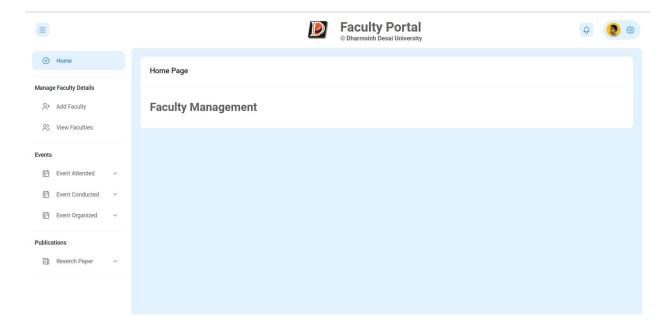
<u>Login</u>



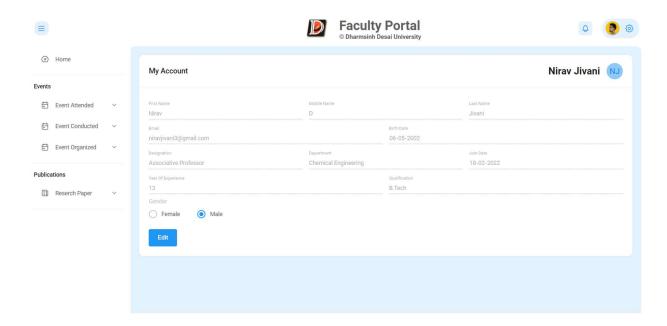
Forgot Password



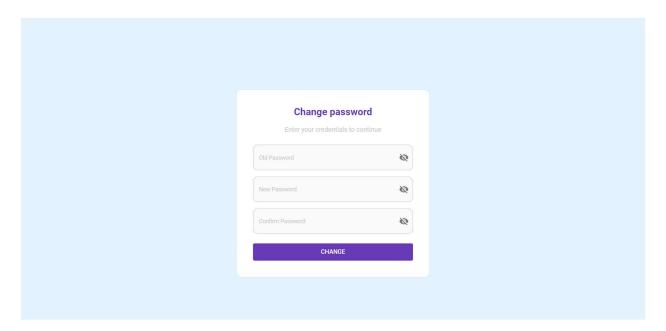
Home Page



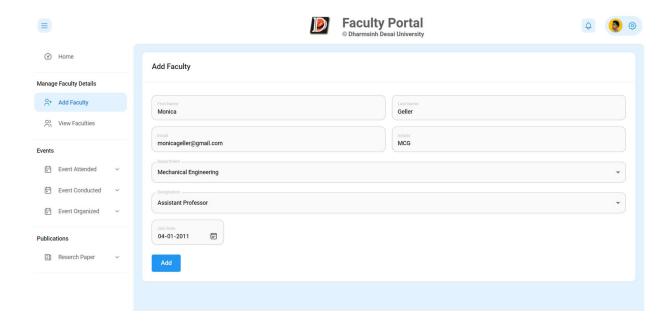
My Account



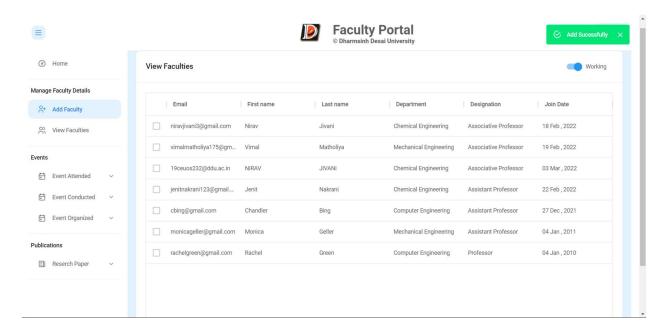
Change Password



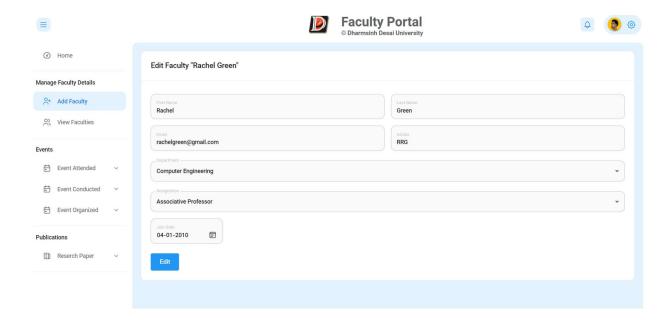
Add Faculty (Admin)



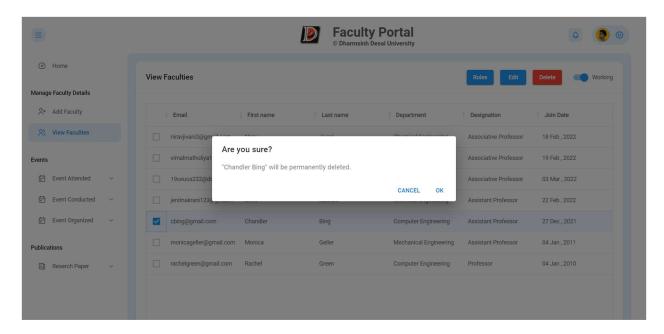
View Faculties (Admin)



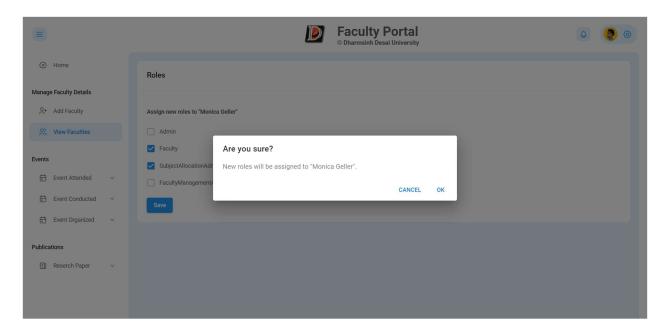
Edit Faculty (Admin)



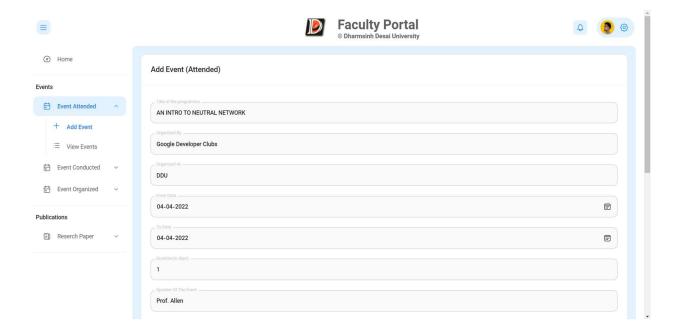
Delete Faculty (Admin)



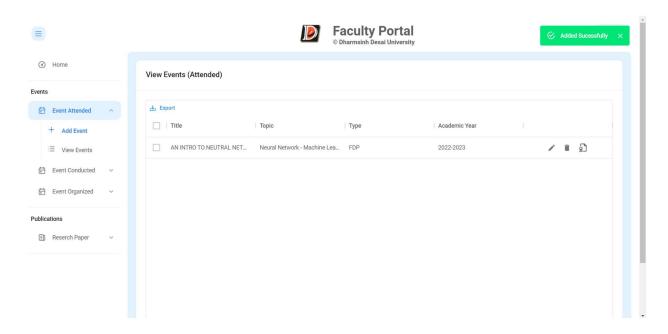
View/Edit Roles(Admin)



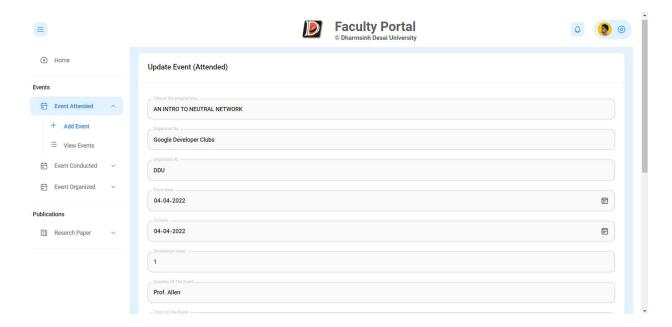
Add Event



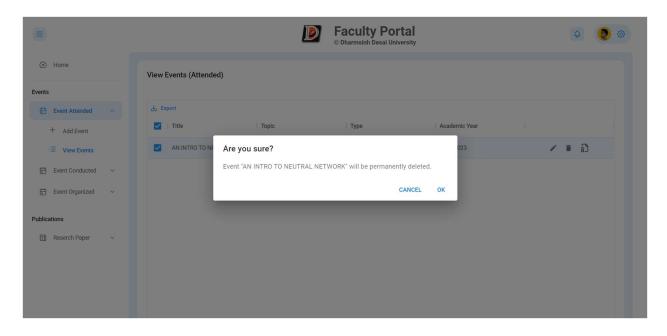
View Event



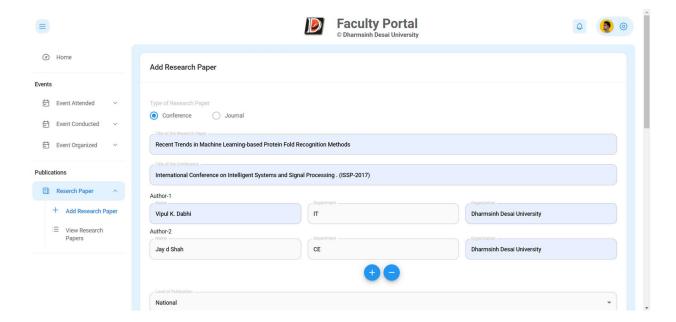
Edit Event



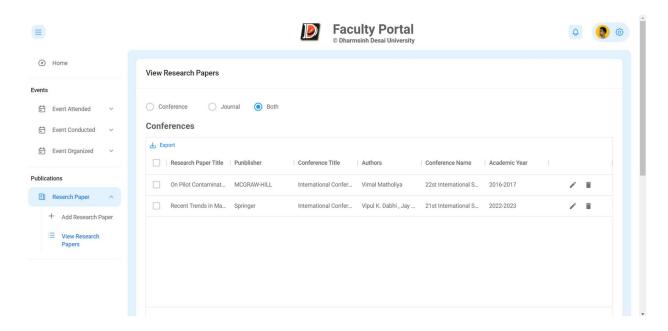
Delete Event



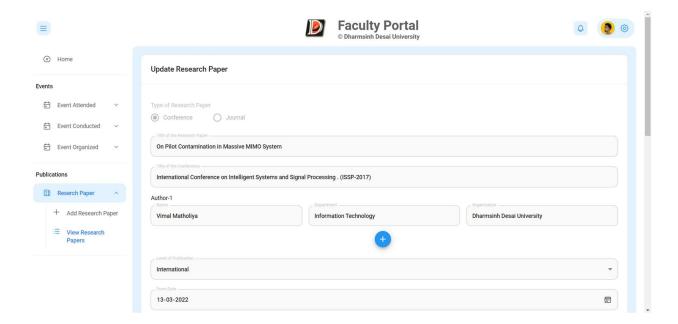
Add Research Paper



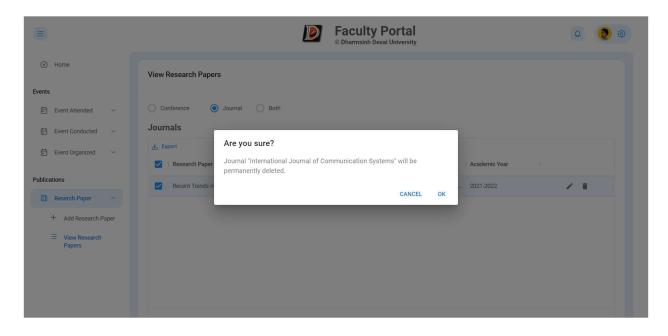
View Research Paper



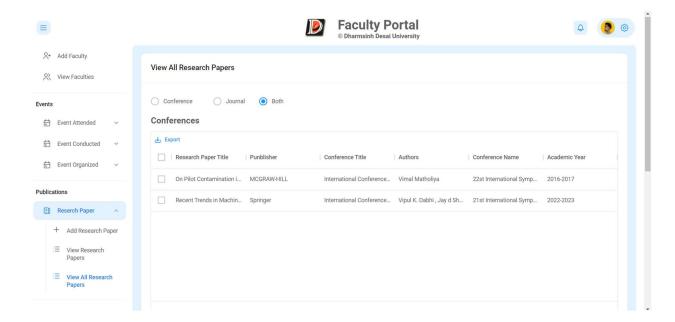
Update Research Paper



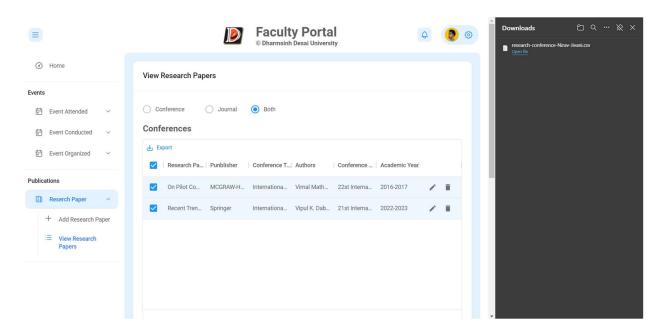
Delete Research Paper



View All Faculty's Research Paper (Admin)



Exporting Data



Conclusion:

We have implemented all the functionality after understanding all the system modules according to requirements. Modules implemented in the system is as below:

- Manage Accounts
- Manage Events of Faculty
- Manage Publications
- Manage Administration

After implementation testing was also performed to check for the errors and flaws of the system.

Limitations & Future Extension:

<u>Limitations</u>:

We can't add multiple events or publications using csv file.

<u>Future Extensions</u>:

- We can add functionality to add multiple events or publications using csv file.
- We can add one field in publication form for uploading document related to publication.
- We can extend publication module by adding articles, books and some notifications management.
- > we can try to further increase scalability and performance of our system.

Bibliography:

- > React Documentation : Getting Started React
- > Express Documentation : Express Node.js web application framework
- ➤ Material UI : Components MUI
- > Stack Overflow