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1. **Introduction**

Based on the document and the initial requirements here is a comprehensive project definition:

1.1 Project Overview:-

The Community Management System aims to develop an innovative and efficient online platform for managing various activities and services within the community. The system will digitize management processes, making it easier for the Admin, committee Major, Committee Members, and Members to collaborate and manage services such as Manage announcement type, Events, Scholarships, Donation, and Hall booking.

* 1. Project Purpose:-

The Purpose of the Community Management System is to manage and coordinate various activities and services offered by the community.

* 1. Project Scope:-

The scope of the Community Management system is within the particular state(Gujarat).

* 1. Identification of needs:-

A community management system is an online Platform and it reduces the time. Before a year, we took the physical form, which took too much time.

1. **System Specific Requirement:-**

**2.1. Functional Requirement:-**

Functional requirements define the Fundamental action that the system must perform.

**Module 1: Manage User:**

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will Provide the Following facility to Member:   * Register | Registration |
| FR2 | This module will Provide the Following facility to Users:   * Forget Password * Login * Change Password | sendotp  Login  Handle\_recovery |
| FR3 | This module will provide the Following facility to the admin:   * Add Committee major * Active/De-active Committee major | Manage\_committee\_major |
| FR4 | This module will Provide the Following facility to Member:   * Request for committee member | committee\_member\_request |
| FR5 | This module will Provide the Following facility to committee major:   * Approve/decline commiittee Member request | committee\_member\_request |

**Module 2: Manage announcement type:**

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will Provide the Following facility to the Committee major:   * Create announcement type. * Modify announcement type. * Delete announcement type. | Manage\_announcement\_type |
| FR2 | This module will Provide the Following facility to the Committee major/committee member/ Members:   * View announcement type. | announcement |

**Module 3: Manage announcement:**

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will Provide the Following facility to the Committee major/committee member:   * Create announcement * Modify announcement. * Delete announcement. | Manage\_announcement |
| FR2 | This module will Provide the Following facility to the Committee major/committee member/ Members:   * Register for particular announcement * View announcement | announcement |

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will provide the Following facility to the Members:   * Give donation | donation |
| FR2 | This module will provide the Following facility to the committee member/committee major/member:   * View Donation. | View\_Donation |

**Module 4: Manage Donation:**

**Module 5: Manage Hall**

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will provide the Following facility to the Committee Members/committee major:   * Add Hall . * Update Hall * Active/deactive hall | Manage\_Hall |
| FR2 | This module will provide the following facilities to Committee Member/Committee major/member:   * View hall | View\_Hall |

**Module 6: Manage Hall Booking**

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will provide the Following facility to the Member:   * Book Hall . * Update Hall booking * Delete hall booking | Manage\_Hall\_booking |
| FR2 | This module will provide the following facilities to Committee Member/Committee major/member:   * View hall booking | View\_Hall\_booking |
| FR3 | This module will provide the following facilities to Committee Member/Committee major:   * Approve/decline hall booking | View\_hall\_booking |

**Module 7: Manage Profile**

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will provide the Following facility to the Committee Major/Member/Committee Member:   * Add details * Update details * Delete details * View details | Manage\_Profile |

**Module 8: Manage Payment**

|  |  |  |
| --- | --- | --- |
| **FRN** | **DESCRIPTION** | **Page** |
| FR1 | This module will provide the Following facility to the Member:   * Make payment * View payment | Manage\_hall\_booking |
| FR2 | This module will provide the Following facility to the committee Member/committee Major:   * View payment | Manage\_hall\_booking |

* 1. **Non-Functional Requirement:-**

|  |  |  |
| --- | --- | --- |
| **NFRN** | **DESCRIPTION** | **COMMENTS** |
| NFR1 | The system will be using Password-Protected. Users will have to enter an ID/Password to access the application and we also use md5 for the authenticated. | Security |
| NFR2 | The system will be accessed 24\*7 with a proper internet connection. | Availability |
| NFR3 | The application will be user-friendly and easy to operate. The functions will be easily understandable effective design and easy navigation. | Usability |
| NFR4 | The application can be easily tested by providing various inputs to check the models. | Testability |

1. **User Characteristics:-**
   * Admin:

* Manage user roles (Admin, Committee Manager, Committee Member).
* Add, Update, and Delete Committee Manager and Committee Members.
* Access functionalities across modules.
  + Committee Manager:
    - Create, Modify, and Delete Event schedules, Scholarships, Hall booking, and Donations.
    - Review, Approve, and Reject Scholarship applications and Hall booking applications.
    - View details of committee members who have made donations.
    - Generate reports based on Events, Scholarships, Hall booking, and Donations.
  + Committee Member:
    - Register for event.
    - View event schedules and filter events by year.
    - Apply for scholarships.
    - Check the status of submitted scholarship applications.
    - Request for hall booking.
    - Check the status of the Hall booking.
    - Apply for Donation.
    - View the status of donation applications.

**­­­­­­Admin**

* + - **Add committee Major.**
    - **Active/De-active Major.**

**Committee Major**

* **Approve/Decline Committee Member request**
* **Create, Modify and Delete announcement type.**
* **View announcement type.**
* **Create, Modify and Delete announcements and Manage announcement**
* **Register for Announcement.**
* **View Announcement.**
* **View Donation.**
* **Add, Update and active/de-active Hall.**
* **View Hall Booking.**
* **Approve/Decline Hall Booking.**
* **Manage Profile.**
* **view payment.**

**Committee Member**

* **Create, Modify and Delete announcements and Manage announcement**
* **Register for Announcement.**
* **View Announcement.**
* **View Donation.**
* **Add, Update and active/de-active Hall.**
* **View Hall Booking.**
* **Approve/Decline Hall Booking.**
* **Manage Profile.**
* **view Payment.**

**Member**

* + **Registration for Memebr.**
  + **Request to Committee Memebr.**
  + **Give Donation.**
  + **view Donation.**
  + **Book the hall and update and delete it.**
  + **View Hall Booking.**
  + **Manage Profile.**
  + **Make and view Payment.**

1. **Use case diagram:**
2. **Data Dictionary:-**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Field name** | **Data type** | **Size** | **Constraints** | **Description** |
| 1 | U\_Id | Int | - | Primary key | Uniquely Identifies the committee member |
| 2 | Name | varchar | 10 | Not null | Defines the name |
| 3 | Gender | Char | - | Not null | Defines the gender |
| 4 | Dob | Date | - | Not null | Defines the date of birth |
| 5 | c\_ no | Bigint | 10 | Not null | Defines the contact no |
| 6 | Address | Varchar | 30 | Not null | Defines the address |
| 7 | Email | Varchar | 20 | Not null | Defines the Email |
| 8 | Password | Varchar | 15 | Not null | Defines the Password |
| 9 | Caste\_ certificate | Varchar | 255 | Not null | Defines the Caste certificate |
| 10 | Status | Bit | - | Not null | Defines the member status is active or not |
| 11 | role | varchar | 10 | Not Null | Defines the role of the user |

**Table Name: User**

**Table Name: Event**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No** | **Field name** | **Data type** | **Size** | **Constraints** | **Description** |
| 1 | E\_ id | Int | - | Primary key | Uniquely Identifies the Event |
| 2 | Event\_ name | Varchar | 20 | Not null | Defines the name of the Event |
| 3 | H\_ id | Int | - | Foreign Key | Defines the type of hall booking Referenced from Tbl\_hall\_booking(H\_id ) |
| 4 | Event\_ date | Date | - | Not null | Defines the date of the Event |
| 5 | Event\_ time | Time | - | Not null | Defines the Time of the Event |
| 6 | Description | Varchar | 250 | Not null | Defines description of the Event |
| 7 | Form | Varchar | 255 | Not null | Defines the form of the Event |
| 8 | Status | Bit | - | Not null | Defines whether the status is active or not |

**Table Name: Hall\_ booking\_ master**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr. No. | Field name | Data type | Size | Constraints | Description |
| 1 | Hall\_ id | int | - | Primary key | Uniquely Identifies the Hall booking master |
| 2 | Name | Varchar | 20 | Not null | Defines the name of the Hall booking master |
| 3 | Capacity | Int | - | Not null | Defines the capacity of the Hall booking master |
| 4 | Image | Varchar | 255 | Not null | Define the image of the hall booking master |
| 5 | Address | Varchar | - | Not null | Define the Address of the hall booking master |

**Table Name: Hall \_booking**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No** | **Field name** | **Data type** | **Size** | **Constraints** | **Description** |
| 1 | H\_ id | Int | - | Primary key | Uniquely Identifies the Hall booking |
| 2 | U\_ Id | int | - | Foreign key | Defines the type of complaint Referenced from Tbl\_User(U\_id ) |
| 3 | Hall\_ id | Int | - | Foreign key | Defines the type of Hall booking Referenced from Tbl\_hall\_booking\_master(Hall\_id ) |
| 4 | Status | bit | - | Not null | Defines whether the status is active or not |
| 5 | Start\_Date\_Time | DateTime | - | Not null | Defines the start time of the Hall Booking |
| 6 | End\_ Date\_Time | DateTime | - | Not null | Defines the End time of the Hall Booking |

**Table Name: Donation**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No** | **Field name** | **Data type** | **Size** | **Constraints** | **Description** |
| 1 | D\_ id | Int | - | Primary key | Uniquely Identifies the Donation |
| 2 | Amount | Float | - | Not null | Defines the Amount for Donation |
| 3 | Date | Date | - | Not null | Defines the Date for Donation |
| 4 | Status | varchar | 255 | Not null | Defines whether the status is active or not |
| 5 | U\_Id | int | - | Foreign Key | Defines the type of user Referenced from Tbl\_User(U\_id ) |
| 6 | Mode | Varchar | - | Not null | Define the mode of Donation |

**Table Name: Scholarship**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No** | **Field name** | **Data type** | **Size** | **Constraints** | **Description** |
| 1 | S\_ id | Int | - | Primary Key | Uniquely Identifies the Scholarship id |
| 2 | U\_ Id | Int | - | Foreign Key | Defines the type of complaint Referenced from Tbl\_User(U\_id |
| 3 | Adhar\_ card \_no | Int | - | Not null | Define the Adhar card no |
| 4 | Voter \_id\_ no | Int | - | nullable | Define the Voter card no |
| 5 | Pan\_ card\_ no | Int | - | Not null | Define the Pan card no |
| 6 | status | Varchar | - | Not null | Defines whether the status is active or not |
| 7 | School/university name | Varchar | 30 | Not null | Define the School/College Name |
| 8 | S.S.C\_ marks | Float | - | Not null | Define the SSC Marksheet |
| 9 | H.S.C\_ marks | Float | - | Not null | Define the HSC Marksheet |
| 10 | Course\_name | Varchar | 30 | Not null | Define the Course Name |
| 11 | Pan\_card\_no\_father | varchar | 11 | Not null | Define the Pan Card of Father |
| 12 | Pan\_card\_no\_mother | Varchar | 11 | Not null | Define the Pan card of Mother |
| 13 | Occupation\_father | Varchar | 20 | Not null | Define the Occupation of Father |
| 14 | Occupation\_mother | Varchar | 20 | Not null | Define the Occupation of Mother |
| 15 | Father\_income | Float | - | Not null | Define the Father's Income |
| 16 | Mother\_income | Float | - | Not null | Define the Mother's Income |
| 17 | Bank\_name | Varchar | 30 | Not null | Define the Bank Name |
| 18 | Bank\_Distric | Varchar | 20 | Not null | Define the Bank district |
| 19 | Bank\_IFSC\_code | Varchar | 11 | Not null | Define the Bank IFSC code |
| 20 | Account\_no | Big int | - | Not null | Define the Account no |
| 21 | Aadhar\_card\_student | Varchar | 255 | Not null | Define the Adhar card |
| 22 | Voter\_id | varchar | 255 | Not null | Define the voter id |
| 23 | Income\_certificate | Varchar | 255 | Not null | Define the Income certificate |
| 24 | Fees\_receipt | Varchar | 255 | Not null | Define the Fees receipt |
| 25 | Pass\_book(first-page\_photo) | Varchar | 255 | Not null | Define the Pass\_book |
| 26 | Pan\_card\_student | Varchar | 255 | Not null | Define the Pan card |