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# **1.0. Introduction**

## 1.1. Purpose

The purpose of this application is to serve as a tool for the efficient management of the events, activities, meetings etc. of Nirmaan organization.

***1.2. Scope of Project***

The scope of this project is limited to a single student chapter of Nirmaan organization.

## 1.3. Glossary

|  |  |
| --- | --- |
| **Term** | **Definition** |
| Coordinator | A person who controls and coordinates all the activities and events of the organization. |
| Member | A person who performs a set of tasks assigned to him and is a part of the organization. |
| Database | Collection of all the information monitored by this system. |
| Volunteer | A person who performs a set of tasks according to his will without being a part of the organization. |
| Software Requirements Specification | A document that completely describes all of the functions of a proposed system and the constraints under which it must operate. For example, this document. |

**2.0 Overall Description**

## 2.1 Functional Requirements Specification

This section outlines the use cases for each of the active users separately. The coordinator, the member and the volunteer have only one use case apiece.

**2.1.1 Coordinator Use Case**

#### Use case: Add/Modify Event

**Diagram:**

Coordinator

Add/Modify Event

**Brief Description**

The Coordinator accesses the Nirmaan Application, searches for an event and adds/modifies it.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Coordinator has already accessed the application.

1. The Coordinatorchooses to search by event name or description.
2. The system displays the choices to the Coordinator.
3. The Coordinatorselects the event desired.
4. The system presents the abstract of the event to the Coordinator.
5. The Coordinator chooses to add/modify the event.
6. The event is added/modified to the system.

#### Use case: Schedule Activities

**Diagram:**

Coordinator

Schedule Activities

**Brief Description**

The Coordinator accesses the Nirmaan Application, searches for activities and schedules them.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Coordinator has already accessed the application.

1. The Coordinatorchooses to search by activity name or description.
2. The system displays the choices to the Coordinator.
3. The Coordinatorselects the activity desired.
4. The system presents the abstract of the activity to the Coordinator.
5. The Coordinatorchooses to schedule the activity.
6. The activity is scheduled in the system.

#### Use case: Sign Up

**Diagram:**

Coordinator

Sign Up

**Brief Description**

The Coordinator accesses the Nirmaan Application and signs up.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Coordinator has already accessed the application.

1. The Coordinatorchooses thesign up option.
2. The system displays the sign up page to the Coordinator.
3. The Coordinatorenters the required details.
4. The Coordinator is signed up with the system.

#### Use case: Login

**Diagram:**

Coordinator

Login

**Brief Description**

The Coordinator accesses the Nirmaan Application and logs in.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Coordinator has already accessed the application.

1. The Coordinatorchooses the login option.
2. The system displays the login page to the Coordinator.
3. The Coordinatorenters the required details.
4. The Coordinator is logged in with the system.

#### Use case: Promote Event

**Diagram:**

Coordinator

Promote Event

**Brief Description**

The Coordinator accesses the Nirmaan Application, searches for an event and promotes it.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Coordinator has already accessed the application.

1. The Coordinatorchooses to search by event name or description.
2. The system displays the choices to the Coordinator.
3. The Coordinatorselects the event desired.
4. The system presents the abstract of the event to the Coordinator.
5. The Coordinator chooses to promote the event.
6. The event is promoted to the users of the application.

#### Use case: Search

**Diagram:**

Coordinator

Search

**Brief Description**

The Coordinator accesses the Nirmaan Application, searches for an event/activity/member/volunteer.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Coordinator has already accessed the application.

1. The Coordinatorchooses to search by event/activity name or description, or member/volunteer name or ID.
2. The system displays the choices to the Coordinator.
3. The Coordinatorselects the event/activity/member/volunteer desired.
4. The system presents the details of the event/activity/member/volunteer to the Coordinator.

#### Use case: Schedule Meeting

**Diagram:**

Coordinator

Schedule Meeting

**Brief Description**

The Coordinator accesses the Nirmaan Application and schedules a meeting.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Coordinator has already accessed the application.

1. The Coordinatorchooses to search by activity name or description.
2. The system displays the choices to the Coordinator.
3. The Coordinatorselects the activity desired.
4. The system presents the abstract of the activity to the Coordinator.
5. The Coordinatorchooses to schedule the activity.
6. The activity is scheduled in the system.

#### Use case: Logout

**Diagram:**

Coordinator

Logout

**Brief Description**

The Coordinator accesses the Nirmaan Application and logs out.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Coordinator has already accessed the application.

1. The Coordinatorchooses the logout option.
2. The Coordinatorlogs out of the application.

#### Use case: Open/Close Event Registration

**Diagram:**

Coordinator

Open/Close Event Registration

**Brief Description**

The Coordinator accesses the Nirmaan Application, opens/closes an event registration.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Coordinator has already accessed the application.

1. The Coordinatorchooses to search by event name or description.
2. The system displays the choices to the Coordinator.
3. The Coordinatorselects the event desired.
4. The system presents the abstract of the event to the Coordinator.
5. The Coordinator chooses to open/close the registration for the event.
6. The registration for the event is opened/closed.

#### Use case: Post Feed

**Diagram:**

Coordinator

Post Feed

**Brief Description**

The Coordinator accesses the Nirmaan Application and posts feed.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Coordinator has already accessed the application.

1. The Coordinator selects the post feed option in the application.
2. The system displays the post feed page to the Coordinator.
3. The Coordinatorposts a feed to the page to be accessed by the users.

#### Use case: Recruit Volunteer

**Diagram:**

Coordinator

Recruit Volunteer

**Brief Description**

The Coordinator accesses the Nirmaan Application and recruits volunteers.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Coordinator has already accessed the application.

1. The Coordinator selects the option for viewing the details of each volunteer.
2. The system shows the details of each volunteer,
3. The Coordinatorchooses whether to recruit a volunteer or not.

#### Use case: Subscribe News Feed

**Diagram:**

Coordinator

Subscribe News Feed

**Brief Description**

The Coordinator accesses the Nirmaan Application and subscribes to the news feed of other Coordinators.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Coordinator has already accessed the application.

1. The Coordinator selects the option for viewing the details of each fellow Coordinator.
2. The system shows the details of each fellow Coordinator.
3. The Coordinatorchooses the option to subscribe to the news feed of the said Coordinator.
4. The Coordinator is subscribed to the news feed of the said Coordinator.

**2.1.2 Member Use Case**

#### Use case: Enroll for Event

**Diagram:**

Member

Enroll for Event

**Brief Description**

The Member accesses the Nirmaan Application and enrolls for an event.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Memberhas already accessed the application.

1. The Member searches for the event to be enrolled in.
2. Thesystemreturns the abstract of the event selected.
3. The Member chooses the enroll option.
4. The Volunteer is enrolled for the concerned event.

#### Use case: Sign Up

**Diagram:**

Member

Sign Up

**Brief Description**

The Member accesses the Nirmaan Application and signs up.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Member has already accessed the application.

1. The Memberchooses the sign up option.
2. The system displays the sign up page to the Member.
3. The Memberenters the required details.
4. The Memberis signed up with the system.

#### Use case: Login

**Diagram:**

Member

Login

**Brief Description**

TheMember accesses the Nirmaan Application and logs in.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Member has already accessed the application.

1. The Memberchooses the login option.
2. The system displays the login page to the Member.
3. The Memberenters the required details.
4. The Member is logged in with the system.

#### Use case: Logout

**Diagram:**

Member

Logout

**Brief Description**

The Member accesses the Nirmaan Application and logs out.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Member has already accessed the application.

1. The Memberchooses the logout option.
2. The Memberlogs out of the application.

#### Use case: Subscribe News Feed

**Diagram:**

Member

Subscribe News Feed

**Brief Description**

The Member accesses the Nirmaan Application and subscribes to the news feed of Coordinators.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Member has already accessed the application.

1. The Member selects the option for viewing the details of each Coordinator.
2. The system shows the details of each Coordinator.
3. The Memberchooses the option to subscribe to the news feed of the said Coordinator.
4. The Member is subscribed to the news feed of the said Coordinator.

#### Use case: Search

**Diagram:**

Member

Search

**Brief Description**

The Member accesses the Nirmaan Application, searches for an event/activity/member/volunteer.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Member has already accessed the application.

1. The Memberchooses to search by event/activity name or description, or member/volunteer name or ID.
2. The system displays the choices to the Member.
3. The Memberselects the event/activity/member/volunteer desired.

76. The system presents the details of the event/activity/member/volunteer to the Member.

#### Use case: Promote Event

**Diagram:**

Member

Promote Event

**Brief Description**

The Member accesses the Nirmaan Application, searches for an event and promotes it.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Member has already accessed the application.

1. The Memberchooses to search by event name or description.
2. The system displays the choices to the Member.
3. The Memberselects the event desired.
4. The system presents the abstract of the event to the Member.
5. The Memberchooses to promote the event.
6. The event is promoted to the users of the application.

#### 2.1.3 Volunteer Use Case

#### Use case: Sign Up

**Diagram:**

Volunteer

Sign Up

**Brief Description**

The Volunteer accesses the Nirmaan Application and signs up.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Volunteer has already accessed the application.

1. The Volunteerchooses the sign up option.
2. The system displays the sign up page to the Volunteer.
3. The Volunteerenters the required details.
4. The Volunteer is signed up with the system.

#### Use case: Login

**Diagram:**

Volunteer

Login

**Brief Description**

TheVolunteer accesses the Nirmaan Application and logs in.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Volunteer has already accessed the application.

1. The Volunteerchooses the login option.
2. The system displays the login page to the Volunteer.
3. The Volunteerenters the required details.
4. The Volunteer is logged in with the system.

#### Use case: Logout

**Diagram:**

Volunteer

Logout

**Brief Description**

The Volunteer accesses the Nirmaan Application and logs out.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Volunteer has already accessed the application.

1. The Volunteer chooses the logout option.
2. The Volunteer logs out of the application.

#### Use case: Subscribe News Feed

**Diagram:**

Volunteer

Subscribe News Feed

**Brief Description**

The Volunteer accesses the Nirmaan Application and subscribes to the news feed of Coordinators.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Volunteer has already accessed the application.

1. The Volunteer selects the option for viewing the details of each Coordinator.
2. The system shows the details of each Coordinator.
3. The Volunteer chooses the option to subscribe to the news feed of the said Coordinator.
4. The Volunteer is subscribed to the news feed of the said Coordinator.

#### Use case: Search

**Diagram:**

Volunteer

Search

**Brief Description**

The Volunteer accesses the Nirmaan Application, searches for an event/activity/member/volunteer.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Volunteer has already accessed the application.

1. The Volunteer chooses to search by event/activity name or description, or member/volunteer name or ID.
2. The system displays the choices to the Volunteer.
3. The Volunteer selects the event/activity/member/volunteer desired.
4. The system presents the details of the event/activity/member/volunteer to the Volunteer.

#### Use case: Promote Event

**Diagram:**

Volunteer

Promote Event

**Brief Description**

The Volunteer accesses the Nirmaan Application, searches for an event and promotes it.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Volunteer has already accessed the application.

1. The Volunteer chooses to search by event name or description.
2. The system displays the choices to the Volunteer .
3. The Volunteer selects the event desired.
4. The system presents the abstract of the event to the Volunteer .
5. The Volunteer chooses to promote the event.
6. The event is promoted to the users of the application.

#### Use case: Enroll for Event

**Diagram:**

Volunteer

Enroll for Event

**Brief Description**

The Volunteer accesses the Nirmaan Application and enrolls for an event.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Volunteer has already accessed the application.

1. The Volunteer searches for the event to be enrolled in.
2. Thesystemreturns the abstract of the event selected.
3. The Volunteer chooses the enroll option.
4. The Volunteer is enrolled for the concerned event.

**2.1.4 Database Use Case**

#### Use case: Sign Up

**Diagram:**

Database

Sign Up

**Brief Description**

The Database stores the personal data of the users.

**Initial Step-By-Step Description**

Before this use case can be initiated, the userhas already accessed the application.

1. The userchooses the sign up option.
2. The system displays the sign up page to the user.
3. The userenters the required details.
4. The entered data is stored in the Database.

#### Use case: Login

**Diagram:**

Database

Login

**Brief Description**

Thesystem retrieves the login details of the user from the Database for validation.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Volunteer has already accessed the application.

1. The userchooses the login option.
2. The system displays the login page to the user.
3. The userenters the required details.
4. The data stored in the Database is retrieved and is used to validate the login details.

## 2.2 User Characteristics

The Coordinator is expected to be internet literate andbe able to use a search engine. The Nirmaan Application will have the search function and a link to all the relevant options. He is also expected to be able to use email with attachments.

The Member and Volunteer are expected to be internet literate and be able to use a search engine.

# **3.0. Requirements Specification**

## 3.1 External Interface Requirements

The only link to an external system is the link to the Relational Database Management System (RDBMS) to verify the membership of a user.

### 3.3.2 Security

The server on which the database resides will have its own security to prevent unauthorized *write*/*delete* access. There is no restriction on *read* access.

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