**Use Case Diagram**

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| --- | --- |
| **Symbol** | **Name** |
| 🛉 | Actor |
|  | Use Case |
| ⸏ | Connector |
| ⟶ | Generalization |
| ⇢ | Stereotype |

A diagram of a diagram

Description automatically generated

**High-Level Use Case**

**Register**

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| **Use Case:** | Register Details |
| **Actors:** | Donor, Volunteer, NGO, Farmer |
| **Descriptions:** | All users can input their respective details into the system. Upon submission, the system automatically registers the provided information, ensuring seamless integration and efficient data management. |

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| **Use Case:** | Success Message |
| **Actors:** | Donor, Volunteer, Farmer |
| **Descriptions:** | The user can provide the details and go to register if it is valid then show the successful message. |

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| **Use Case:** | Error Message |
| **Actors:** | Donor, Volunteer, Farmer |
| **Descriptions:** | The user can provide the details and go to register if it is not valid then show the error message. |

**Take Membership**

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| **Use Case:** | Take Membership |
| **Actors:** | Volunteer, NGO |
| **Descriptions:** | A new volunteer provides the personal details, and his/her details are registered with the system. The NGO provide the membership then volunteers take the new membership. |

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| **Use Case:** | Privilege |
| **Actors:** | Volunteer |
| **Descriptions:** | After taking a new member, a new volunteer gets the privilege of the food donation system. |

**Login**

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| **Use Case:** | Login |
| **Actors:** | Donor, Volunteer, Farmer |
| **Descriptions:** | After registering details in the system, all the users can provide valid details and log in to the system Then successfully log in to the system. |

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| **Use Case:** | Verification |
| **Actors:** | Donor, Volunteer, Farmer |
| **Descriptions:** | A new user-provided login details are checked in the database where it is registered or not registered in the system. If its details are registered, then verify to give the login access in the system. |

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| **Use Case:** | Error Message |
| **Actors:** | Donor, Volunteer, Farmer |
| **Descriptions:** | If the user login details are not registered or invalid, then the system shows the error message. |

**View History**

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| --- | --- |
| **Use Case:** | View History |
| **Actors:** | Donor, Volunteer, NGO, Farmer |
| **Descriptions:** | All the users can view the history of food donation where who donate, where to donate or more details. |

**Food Donate**

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| **Use Case:** | Food Donate |
| **Actors:** | Donor, Farmer |
| **Descriptions:** | The Donor or Farmer can donate the proper food information and details with location. The system can show the donation food details in the history after posting the donated food. |

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| **Use Case:** | Food Donate Information |
| **Actors:** | Donor, Farmer, Volunteer |
| **Descriptions:** | When a donor donates food posted in the system all the volunteers can get the donation information (Notification). |

**View Donation info**

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| --- | --- |
| **Use Case:** | Donation Rating |
| **Actors:** | Volunteer |
| **Descriptions:** | After receiving the donation info, the volunteer can view the donation details if it is possible or not possible to distribute. |

**Donation Rating**

|  |  |
| --- | --- |
| **Use Case:** | Donation Rating |
| **Actors:** | Volunteer, Donor |
| **Descriptions:** | After the food is completely donated to some people the volunteer can give the donation rating to the donor with food distributed information. |

**Complain with Administration**

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| --- | --- |
| **Use Case:** | Complain with Admin |
| **Actors:** | Donor, Volunteer, Admin |
| **Descriptions:** | After contact with donors and volunteers the donors cannot be provided or donate food and the receiver cannot come to receive the donation food, they can complain to the admin |

**Context Diagram**

A diagram of food donation system

Description automatically generated

**Data Flow Diagram (DFD)**

**Class Diagram**

**Activity Diagram**

**Entity Relationship Diagram (ERD)**

**System Architecture**

**Wireframe**