NMS

(NGO Management Software)

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System Requirements Specification

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1.0 Introduction

1.1 Purpose

This Software Requirements Specification provides a complete description of all the functions and specifications of the NGO Management System (NMS) developed for the management of the NGO which works for providing free school education for poor children.

1.2 Document Convention

Actor

Connection

Activity
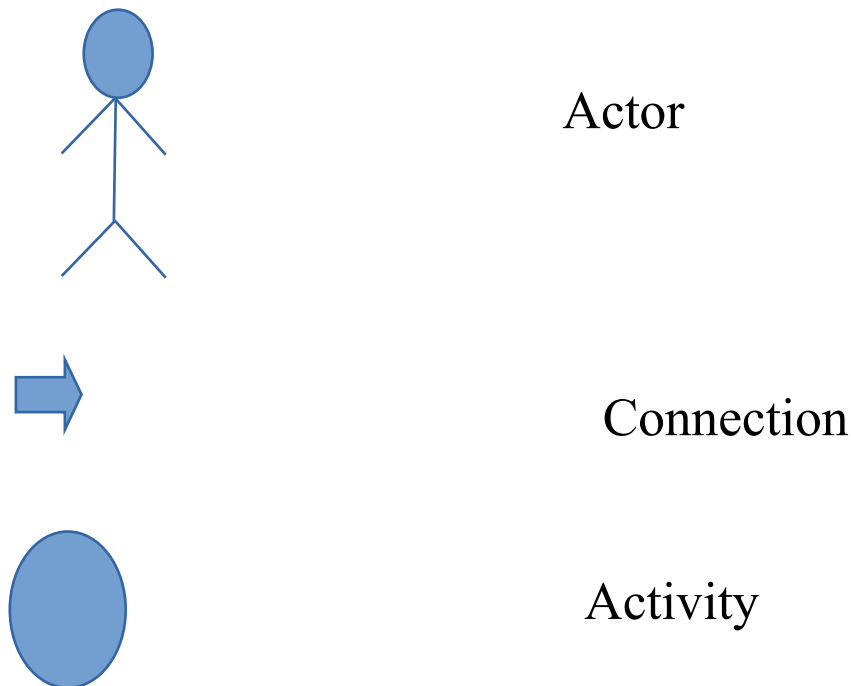
1.3 Audience and Reading Suggestion

The expected audiences of this document are President, Volunteers and also the donors who have pledged to help the NGO.

Term/Abbreviation Definition (Reading Suggestion)

Term	Definition
NMS	NGO Management Software
Volunteers	Poor students approach volunteers for help and they in turn register them and maintain a record of their performance. Also contact donors when required.
Donors	The people who pledge to help NGO with a certain amount of money or other donations such as books, dress, shoes, bags.
President	The person who manages funds and supervises the NGO.

1.4 Project Scope

• The NGO Management Software (NMS) is designed to provide NGO, which works for providing free school education to children, a system for its management.
• This software allows the _volunteers_ to register poor students who approach them for help and maintain track record of their performance. Also, volunteers contact donors when asked to by the President.
• This software allows the _donors_ to register and enter the amount of money or other donations they intend to contribute, the NGO allows anonymous donations also.
• This software also allows the _President_ to check the various records. It allows him to check the amount of

money needed to continue its operations, check for insufficiency of funds in case of which it alerts the volunteers to contact the pledged donors and maintain an account of expenditure made by the NGO in the present year. The President can keep track of all the volunteers also, he is responsible to add/remove volunteers.

• This software has a very user-friendly interface resulting in knowing each and every usability feature of the system.

1.5 References

1. [IEEE] the applicable IEEE standards are published in "IEEE Standards
Collection", 2001 Edition.
2. Class slides.

2.0 Overall Description

The NMS provides the NGO with a system for its management. The volunteers register poor students and update their performance. The donors can donate by registering with the amount of money or they can donate anonymously. The President checks the records, checks the funds and keeps an account of expenditure.

2.1 Product Perspective
This software is a new, self-contained product which provides the NGO a system for its management
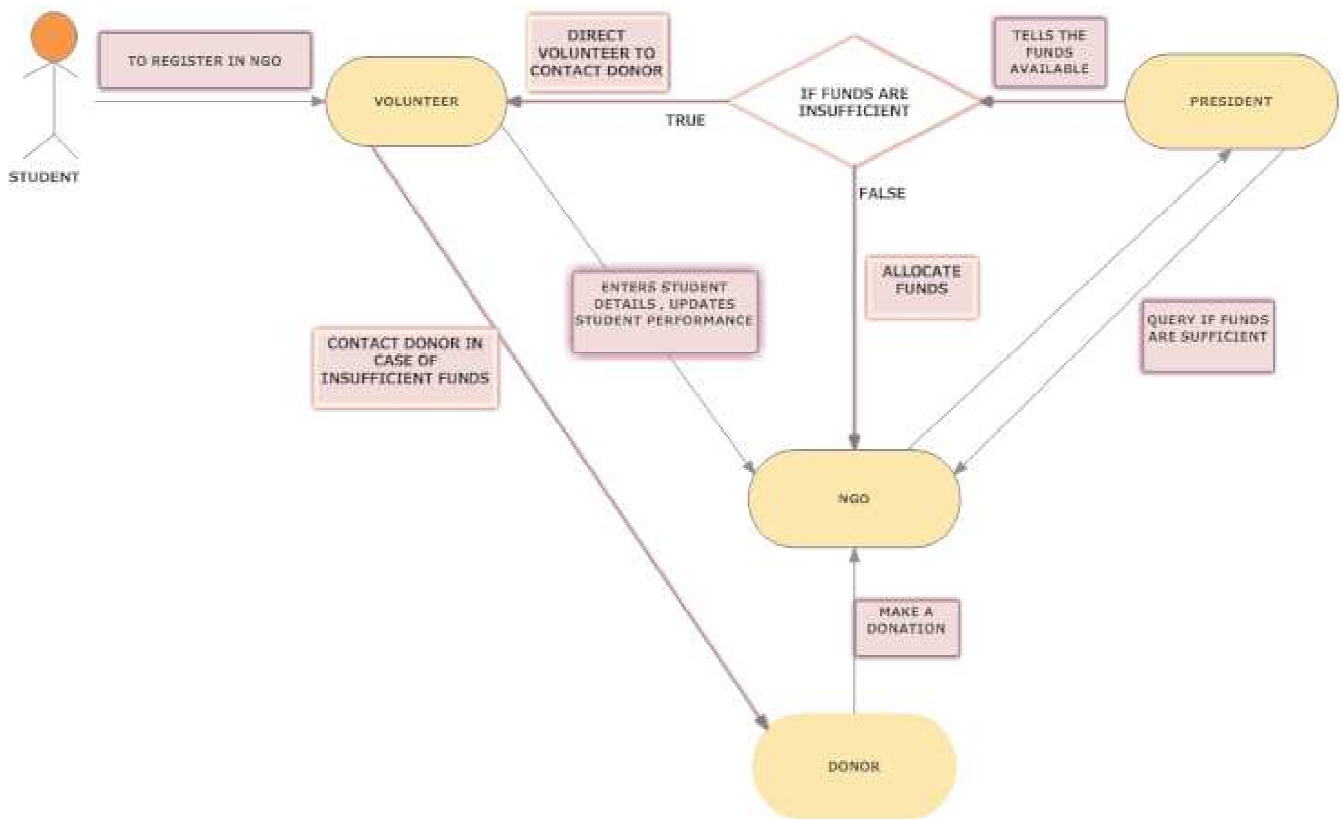
The NMS is developed as an extension of the work either done manually through volunteers using paper records etc. NMS will make not only volunteer work easy but also the work of President easy much comforted. The main software will operate from the head office of the NGO.

2.2 Product Features

The major objective of this software is to provide the NGO a system for its management. Records can be maintained both in soft copy as well as hard copy. Lesser manual work will be required as the record keeping and accounting can be done by the software, making it less inconvenient and more efficient. This software will be used by volunteers to register students and maintain the track record of their performance, generating the priority list etc by the President

to act accordingly in case of insufficient funds, estimate the funds and alert volunteers to contact donors and keep records of the students, donors and volunteers.

2.3 User classes and characteristics

The system will contain NMS interface with three selections:
The first selection is for the <u>volunteers</u>. First they will be verified with login ID and password. Their job is to register new students, enter their performance. They contact the donors when told by the President.
The second selection is for <u>donors</u>. They will be verified with login ID and password. Any user can register and become a new donor. If he want he can donate anonymously also. They can donate money or other items required by the students.
The third selection is for the <u>president</u>. He can also get an estimate of funds and in case of insufficient funds contact the donors. If the funds are insufficient again, then he gets a student's priority list from the software depending on their performance, gender and parental income. He also maintain an inventory to check if there is a need to buy items such as books, dress, shoes and bags. In addition to this, he also keeps an account of the overall expenditure made in the present year. He can access the complete donors list with the amount of money they contribute or other donations. He can also access the list of students registered in the NGO and what kind of help, if provided, is being delivered to each one of them. He is provided with the list of all the volunteers and is also responsible to add/remove

volunteers.

## 2.3.1 User class for access to VOLUNTEERS
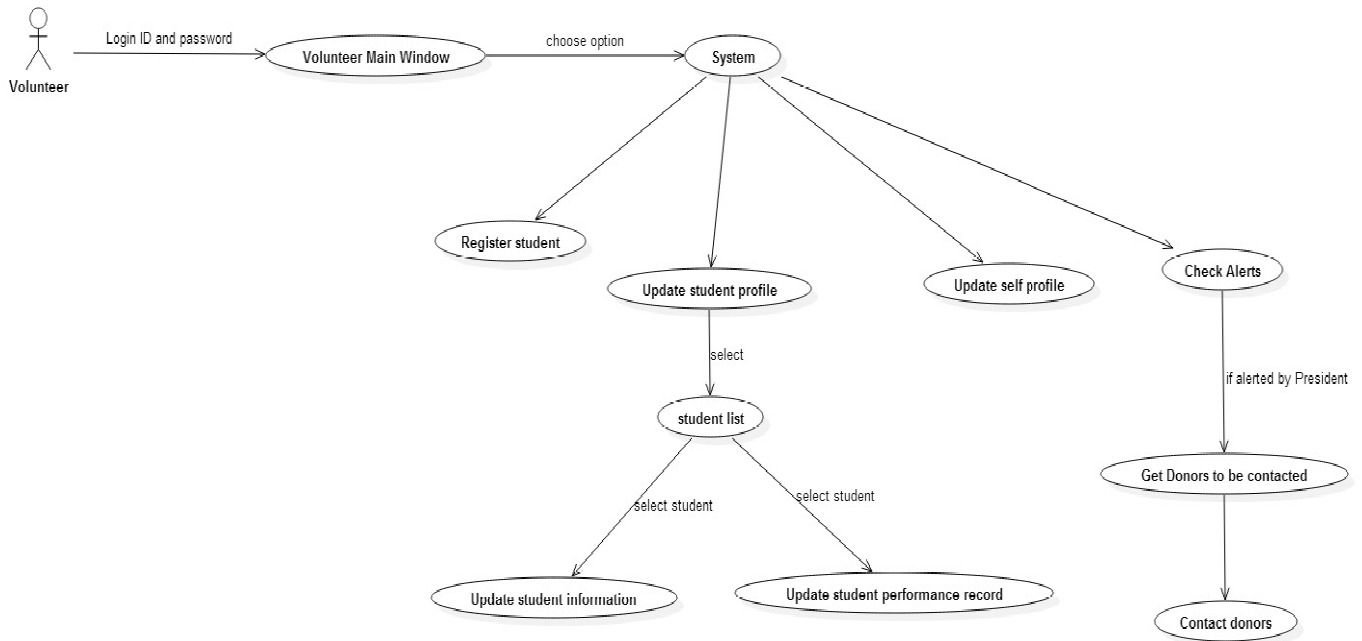
Brief description: Volunteer registers a new student and updates the performance.

Step-by-step description:

1. Volunteer enters login ID and password
2. Volunteer main window opens
3. Volunteer selects an option among
• Register new student
• Update student profile
• Update self profile
• Check alerts
The volunteer is then re-directed to the particular window.

2.3.2 User class: Access to Donor
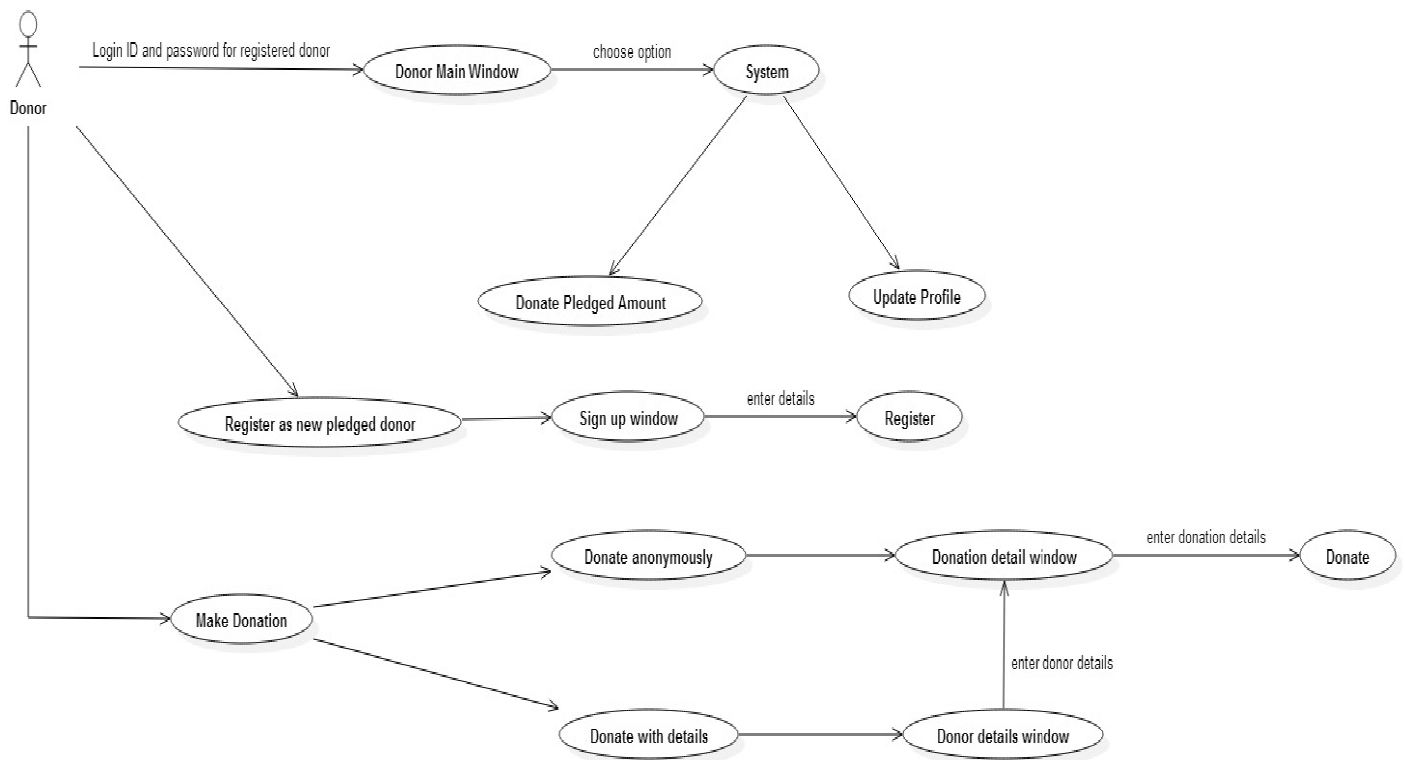
Brief description: Donor can make donation either via money or in-kind or both. Users can register as a new donor.

Step-by-step description:

1. Existing donor will login and main donor window will open. He can also update his profile.
2. Donor can choose what kind of donation he wants to make.
3. User can register as a new donor by selecting "register as a new donor" button and sign-up window opens. On entering details, he is registered. User could also make an anonymous donation selecting "donate anonymously" . The Donor is re-directed to the Donor main window.

2.3.3 User class: Access to President
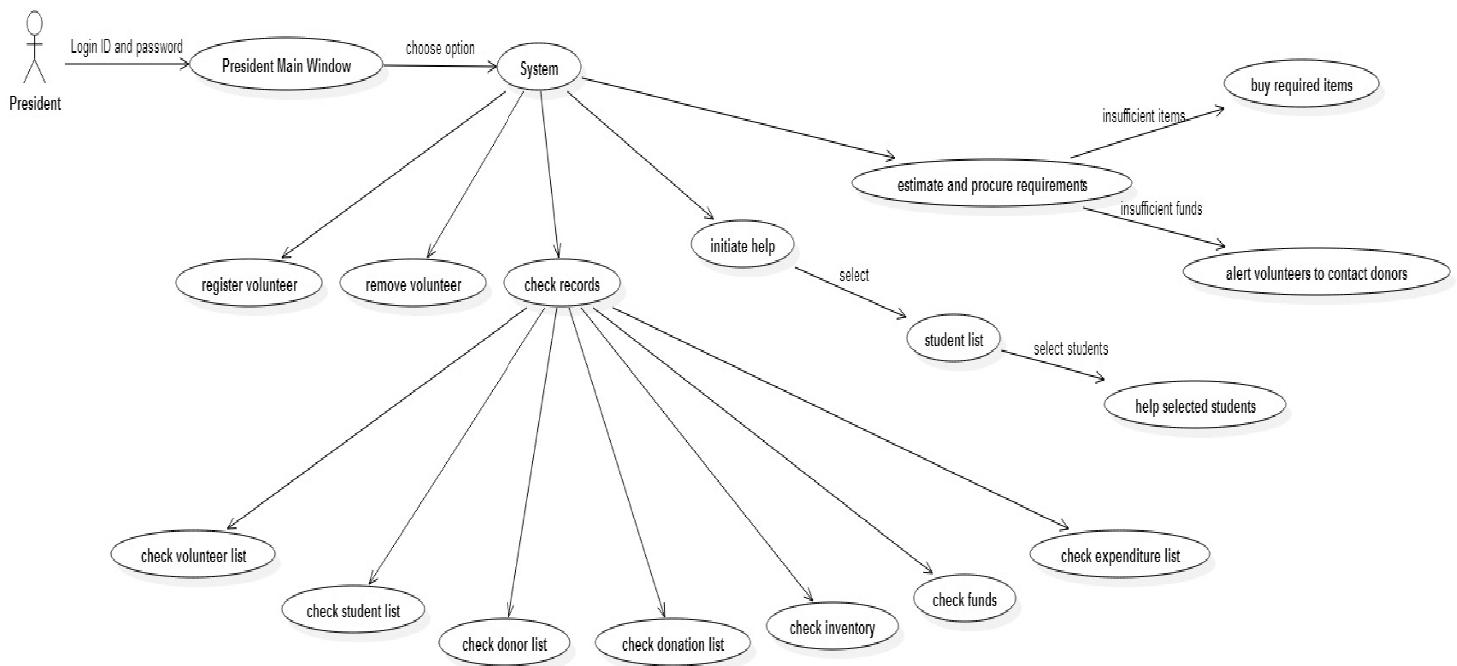
Brief description: President can check the records of expenditure, students, volunteers, donors, donations, funds and inventory and allocate help or ask volunteer to contact donors, depending on the sufficiency of the funds, add or remove volunteers, initiate help etc.

Step-by-step description:

1. President will login using his login ID and password and President main window will open.
2. President can check records of students, donors etc by selecting get student list, get donor list and so on.
3. He can estimate funds and check inventory and if funds are insufficient, he will alert the volunteers to contact donors and if funds are insufficient . If funds are sufficient he will initiate the help to students.
4. He can also maintain an account of annual expenditure.

5. He maintains the record of volunteers, he can add/remove them.

2.4 Operating Environment

The NMS will run on personal computers on both Linux as well as Windows environment. No special hardware will be required. However, software required includes NetBeans and Libre Office Package. There is no software with which this software cannot exist peacefully.

2.5 Design and Implementation Constraints

This software will run only on Windows or Linux environment. The language used in graphical user interface is only English.

2.6 User Documentation

This is very user-friendly software where one does not require any special skills to work on it. A user manual will be provided in the form of ReadMe.txt which will guide through the basic working of this software and various options available for different types of users. One of the special features is that this software also consists of an audio manual for those who cannot read or have problem in understanding English. Since this is a very simple GUI software and involves only basic and clicking options, anyone can use it. Still if anyone has a problem, they can send a query to the specified email-ID.

2.7 Assumptions and Dependencies

This software assumes a basic 2-level hierarchy with the President of the NGO and volunteers. Also, donors are users who can register themselves and become a part of the NGO. When donor makes donation the mode of payment can be manual, i.e., via cash or cheque In the name of "Shiksha" or via internet banking. The passwords entered during the Login process are stored by encrypting it using SHA-1

3.0 Functional Requirement

3.1 External Interface Specifications
None.

3.2 Functional Requirements

3.2.1 Access to VOLUNTEER

User Case Name	Access to VOLUNTEER
Priority	Essential
Trigger	Selecting appropriate buttons.
Pre-Condition	Volunteer's computer should support NMS and has it installed, and the introduction dialogue box should be open.
Basic Path	1. A new window is opened when identity of volunteer is confirmed(by entering login ID and password) which is specially designed for

	volunteers in which volunteer clicks on "Register Student" or "Update Student Profile" or "Update Self Profile" or "Check Alerts" and a new window opens for corresponding actions. 2. In the "Register Student" window, the volunteer enters details of the student like name, age, gender, etc. And the student is registered 3. In the "Update Student Profile" window, a student list is generated and the volunteer selects the student whose profile is to be updated and enters the corresponding details. 4. In the "Update Self Profile" window, the volunteer has to enter his id n password then he is directed to his page where he can input the details which are to be updated. 5. In the "Check Alerts" window, the volunteer checks whether there is an alert associated with contacting the donors.
Alternate Path	N/A
Post Condition	The volunteer should be on the introduction dialog box.
Exception Path	If the login ID and password do not match, access to volunteer is denied message box is displayed and introduction dialog box remains open.

3.2.2 Access to DONOR

User Case Name	Access to DONOR
Priority	Essential
Trigger	Selecting appropriate buttons.

Pre-Condition	Donor's computer should support NMS and has it installed, and the introduction dialogue box should be open.
Basic Path	1.A new window is opened when identity of donor is confirmed(by entering login ID and password) which is specially designed for donors in which donor clicks on "Make donation"(For pledged donors) or "New Donor " option. 2.If the donor is not registered, he can click on "Register as a new donor" option on the welcome page and he will be redirected to a sign up page where he can register as a new donor and pledge the amount and type of donation. He can also donate without pledging or donate anonymously selecting appropriate option. 3.On clicking "Make donation" a new window opens in which donor is prompted to select "Donate money". 4.In "Donate money" donor will be prompted to enter the amount of money he wants to donate .
Alternate Path	N/A
Post Condition	The donor should be on the introduction dialog box.

Exception Path	1.If the login ID and password do not match for a registered donor access to donor denied message will be displayed and the introduction dialog box remains open. 2.If the user enters invalid amount of money pledged an error message will be displayed.

3.2.2 Access to PRESIDENT

User Case Name	Access to PRESIDENT
Priority	Essential
Trigger	Selecting appropriate buttons.
Pre-Condition	President's computer should support NMS and has it installed, and the introduction dialogue box should be open.
Basic Path	1. A new window opens when identity of President is confirmed (by entering login ID and password) which is specially designed for President in which President clicks on "Register Volunteer" or "Remove Volunteer", "Check Records", "Initiate Help" , or "Estimate and Procure Requirements" 2.In Register Volunteer, the president can register a new volunteer, providing his details, this will update the volunteer list. 3. In Remove Volunteer, the list of all the volunteers present will be displayed, and the president can remove any of them. 4. In Check Records, the president can access any of the following lists,

	volunteer, student, donor, donation, inventory, funds, and expenditure. 4. In Initiate help, the president can initiate the help procedure meant to help students. 5. In Estimate and Procure Requirements, according to the given conditions, insufficient funds or insufficient items , the president can choose amongst the options, alert volunteers to contact donor or buy the required items respectively.
Alternate Path	N/A
Post Condition	The donor should be on the introduction dialog box.
Exception Path	1.If the login ID and password do not match for president, access to president is denied. A message will be displayed and the introduction dialog box remains open.

3.3 Non Functional Requirements

Hardware: Personal computer

Operating System: Windows or Linux

Internet Connection: any.

Code Standard: This software will be coded in JAVA editor using NETBEANS 8.0

Performance: This software should function properly 100% of the time.

4.0 External Interface Requirements

4.1 User Interface

The software is very user-friendly and can be easily used by

everyone.