

Assignment 1 Cover Sheet

IT1060 – Software Process Modeling

Semester 2 - 2023

PROJECT ID	MLB_04.02_12
CASE STUDY NAME	Blood Donation System
CAMPUS/CENTER	Malabe Campus

Group Details:

	Student Registration Number	Student Name
1	IT22246578	Weerasinghe W. P. D. A. S
2	IT22254948	Sanjaya W A I
3	IT22222640	Jayalath J R D S
4	IT22131324	Dinushani G G T B
5	IT22113122	Bandara T C N



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We hereby	We hereby certify,					
\checkmark	The attached is our own work and no further changes will be made.					
	We have contributed in this assignment to the best of our ability.					
And we un	nderstand,					
misc	We may be subject to student discipline processes in the event of an act of academic conduct by us including an act of plagiarism or cheating.					

Group Details:

	Student Name	Student Registration Number	Date	Signature
1	Weerasinghe W. P. D. A. S	IT22246578	15/09/2023	Stable
2	Sanjaya W A I	IT22254948	15/09/2023	Fail
3	Jayalath J R D S	IT22222640	15/09/2023	Lint
4	Dinushani G G T B	IT22131324	15/09/2023	Thagip
5	Bandara T C N	IT22113122	15/09/2023	Numare



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Introduction

The Blood Donation System serves as a crucial and user-pleasant platform, streamlining the system of blood donation for individuals keen to make existence-saving contributions. Within this system, users come upon more than a few critical functions upon coming into the net software. They can rapidly register, access complete information approximately the donation method, find out ongoing promotions, and discover nearby donation facilities.

Upon registering, both neighborhood and worldwide users can create person debts, successfully managed through diligent system administrators. Additionally, the device incorporates monetary contributions, allowing customers, whether or not registered or no longer, to donate budget to guide the operational aspects of blood collection and distribution.

Registered users advantage the ability to schedule donation appointments, share their studies, and, whilst vital, cancel appointments, pending approval via directors. Admins efficaciously manage the device, oversee appointment cancellations, and facilitate refunds as wished. They also handle staff debts, preserve an energetic presence on social media, and update important data about donation facilities. Managers, with the considered necessary credentials, utilize the gadget to generate reviews, conduct evaluation, and effectively control funds.

In this orchestration, Guests and Registered Users are the primary actors, riding the system's middle features, while Managers and Administrators serve pivotal secondary roles. The machine's workflow is depicted through unique use case diagrams, elucidating its seamless operation in facilitating the noble act of blood donation.



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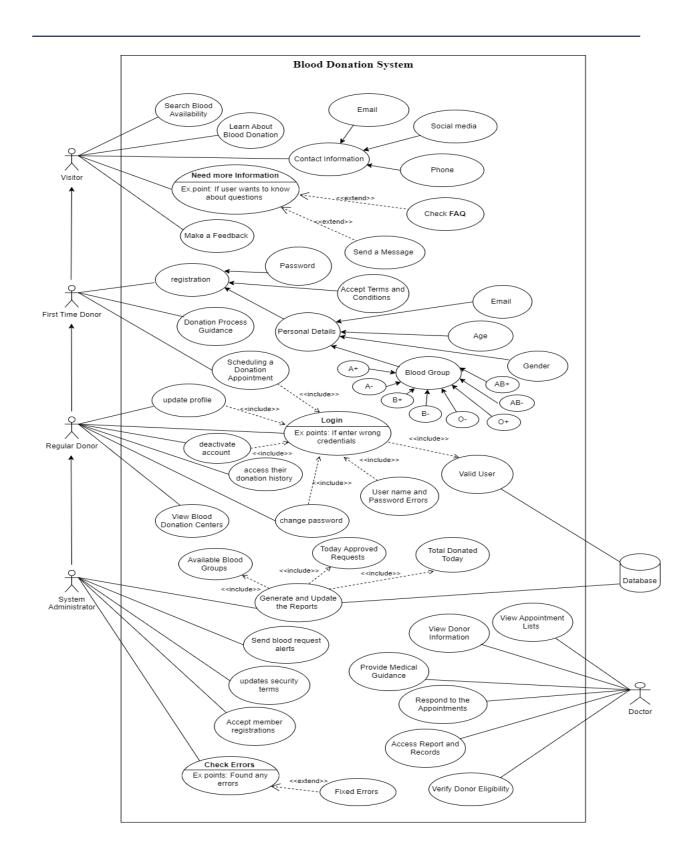
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Use Case Diagram and Use Case Scenarios



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IT22246578: Weerasinghe W. P. D. A. S

a) Individual Contribution:

- Worked on the actor **Visitor**
- Worked on generalizing the use cases for actor visitor
- Created use case scenarios for,
 - Make a Feedback
 - ➤ Learn about Blood Donation

b) Challenges faced:

- We had an IWT task to publish, so we needed to manipulate our time.
- I needed to trade use case diagrams two or 3 times after thinking about the other individual's thoughts.
- Difficult to pick out use case generalization.
- Short period to do this assignment because of the upcoming mid-examination.



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Number	001	001	
Name	Learn a	Learn about Blood Donation	
Summary	The vis	sitor seeks information about blood donation.	
Priority	03		
Pre-condition	The vis	sitor is required to visit the website.	
Post-condition	Get an	Get an idea about blood donation.	
Primary actor	Visitor	Visitor	
Trigger	Visitor wants to know about blood donation.		
Main scenario	Ston	Step Action	
Main Scenario	Step	Action	
Wain Scenario	1.	Visitor see an advertisement from Facebook.	
Main Schaile	_		
Nam Scharlo	1.	Visitor see an advertisement from Facebook.	
Nam Scharto	1.	Visitor see an advertisement from Facebook. Visitor Click the URL in the advertisement.	
Nam Scharto	1. 2. 3.	Visitor see an advertisement from Facebook. Visitor Click the URL in the advertisement. Visitor visits to the website.	
Nam Scharlo	1. 2. 3. 4.	Visitor see an advertisement from Facebook. Visitor Click the URL in the advertisement. Visitor visits to the website. Visitor click donation page.	
Extensions	1. 2. 3. 4. 5.	Visitor see an advertisement from Facebook. Visitor Click the URL in the advertisement. Visitor visits to the website. Visitor click donation page. System shows the details about blood donation.	



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Number	002		
Name	Make a	Make a Feedback	
Summary	Visitor	makes a Feedback	
Priority	3		
Pre-conditions	Visitor	has logged in to the account	
Post-conditions	Visitor	submit the feedback	
Primary Actor	Visitor		
Trigger	Visitor	can express his/her own idea	
Main Scenario	Steps	Actions	
	01	The visitor opens the website.	
	02	The visitor enters their username and password to access their account.	
	03	The visitor selects the "Feedback" option at the top of the webpage.	
	04	The system shows a page where the visitor can provide feedback.	
	05	The visitor writes his/her own feedback in the text box.	
	06 The visitor submits their feedback by clicking the "Submit" button.		
	07	The system sends an email confirming receipt of the feedback.	
Extension	Steps	Branching Action	
	2a	Visitor entered user name or password are invalid.	
	6a	The visitor provided feedback but did not complete the submission.	
	7a	Visitor did not receive an email confirming receipt of the feedback.	



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IT22131324 - Dinushani G G T B

a) Individual Contribution:

- Worked on the actor **First -Time doner**
- Worked on generalizing the use cases for First-Time doner
- related use case scenarios for,
 - Registration
 - > Scheduling a Donation Appointment

b) Challenges faced:

- We held online meetings in addition to on-campus ones to discuss and complete assignments effectively.
- Efficient time management was essential to meet deadlines for assignments in other modules.



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	1		
Number	003	003	
Name	Registr	Registration	
Summary	Create	a new account	
Priority	2		
Pre-condition	Should	visit to the website	
Post-condition	First ti	me donor has a new account	
Primary actor	First T	ime Donor	
Trigger	First ti	me donor wants to create a new account	
Main scenario	Step	Action	
	1.	The visitor opens the website.	
	2.	first-time donor selects the "Registration" button.	
	3.	The system shows a form for the donor to fill out.	
	4. The donor provides their name, username, email address, and password in the form.		
	5. The system sends an email with the pin number to confirm the E-mail and Fir time donor enters the pin number for verification.		
	6.	The donor submits the registration form by clicking the "Submit" button.	
Extensions	Step	Branching Action	
	4a	The system notifies First time donor that the entered email is not valid.	
	4b	The system notifies first time donor that the entered username already exists.	
	4c	The system notifies first time donor that the created password is weak.	
	4d	The system notifies first time donor that the re-entered password is not match with previous password.	
	6a		



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Number	004		
Name	Schedu	Scheduling a Donation appointment	
Summary	First ti	me donor Request a donation appointment	
Priority	3		
Pre-condition	First ti	me donor login visits to the website	
Post-condition	Make a	appointment successfully	
Primary actor	First T	ime Donor	
Trigger	First time donor wants know about donation ability		
Main scenario	Step Action		
	1.	The first-time donor enters their username and password to access the system.	
	2.	The donor selects the "Registration" button.	
	3.	The donor chooses the type of blood donation they want to make.	
	4.	The donor picks an available appointment slot.	
	5.	The donor submits their registration by clicking the "Submit" button.	
Extensions	Step Branching Action		
	1a	The first-time donor entered an invalid username and password.	
		r	



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IT22254948: Sanjaya W. A. I

a) Individual Contribution

- Worked on the actor **Regular Doner**
- Worked on generalizing the use cases for Regular Doner
- Created use case scenarios for,
 - ➤ Change Password
 - View Blood Donation Centers

b) Challenges faced

• Had Assignments from other modules, requiring efficient time management to meet all deadlines.



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Number	005			
Name	Chang	Change Password		
Summary	Regul	ar donor wants to change Password		
Priority	1			
Pre-condition	Regul	ar donor log in to the account		
Post-condition	Regul	ar donor received a new password		
Primary actor	Regul	ar donor		
Trigger	Regul	ar donor needs to improve the account privacy		
Main scenario	Step	Action		
	1.	Regular donor goes to the website		
	2. Regular donor Click the login button			
	3. System displays the login page to regular donor.			
	Regular donor enters username and password			
	5. System verifies the regular donor as a valid user			
	6. Regular donor goes to his own profile			
	7. Click on the change password			
	8. Change the password and submit.			
Extensions	Step Branching Action			
	4a	A regular donor provided an invalid username or a weak password during the login.		
	8a	The password used by the regular donor was deemed weak during the login process.		



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Number	006	006		
Name	View	View blood donation centres		
Summary	Regul	ar donor finds a Blood donation centre		
Priority	2			
Pre-condition	Regul	ar donor must visit the website		
Post-condition	Regul	ar donor confirmed a Blood Donation center		
Primary actor	Regul	Regular donor		
Trigger	Regul	Regular donor wants to know nearest center		
Main scenario	Step	Step Action		
	1.	Regular donor logs in to the system.		
	2.	2. System displays the Dashboard.		
	3. Regular donor goes to the donation page and select the location section.			
	4. System shows the blood donation canters.			
	5.	5. Regular donor picks the nearest canter where he can go easily.		
	6.	6. System shows the direction where regular donor selection.		
Extensions	Step	Step Branching Action		
	1a	Regular Donar entered invalid User name or Password.		



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IT21377280: Jayalath J. R. D. S

a) Individual Contribution:

- Worked on the actor **Doctor**
- Worked on generalizing the use cases for an actor as a doctor
- Created use case scenarios for,
 - > Respond to the Appointments
 - > Access Report and Records

b) Challenges Faced:

• I encountered difficulty identifying the appropriate primary scenarios for specific use cases while writing them.



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Number	007	
Name	Respond to the Appointments	
Summary	Docto	r Response to the Appointments
Priority	5	
Pre-condition	Docto	r must visit the Website
Post-condition	Send t	he confirmation mail
Primary actor	Docto	r
Trigger	Docto	r receives an appointment requests
Main scenario	Step Action	
	1.	Doctor goes to the website.
	2.	The doctor securely logs in by entering their username and password.
	3.	doctor reviews and approves appointment requests, considering factors like urgency and availability.
	4.	Doctor Approves Appoint Request.
	5	System sends the user an appointment confirmation email.
Extensions	Step Branching Action	
	2a	Doctor entered invalid Username or Password.
	5a	Those Who have made an appointment did not receive confirmation mail.



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Number	008	
Name	Access reports and records	
Summary	Docto	r access the reports and records
Priority	4	
Pre-condition	Docto	r must visit the Website
Post-condition	Addin	g Recommendations
Primary actor	Docto	r
Trigger	Docto	r wants to access reports and records
Main scenario	Step	Action
	1.	Login to the Website.
	2.	The doctor enters their username and password for authentication.
	3.	After logging in, the doctor lands on the home page.
	4.	The doctor uses the search bar to access the "Search Records" option.
	5.	Within the "Search Records" section, the doctor views donor information.
	6.	The doctor navigates to donation reports for further insights.
	7.	While reviewing records, the doctor adds recommendations as necessary.
	8.	The doctor logs out of their account.
Extensions	Step	Branching Action
	2a	Doctor entered invalid Username or Password.



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IT22113122: Bandara T. C. N

c) Individual Contribution:

- Created the use case diagram for Send Blood Request alerts
- Worked on the actor **Admin**
- Worked on creating use case scenario for Admin sends Blood Request Alert

d) Challenges Faced:

• there was a time management problem



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Number	009	
Name	Send Blood Request Alert	
Summary	Admin sends Blood Request Alert	
Priority	3	
Pre-condition	Admin log in to the admin account	
Post-condition	Regular donors have received notification massage	
Primary actor	System Administrator	
Trigger	Admin wants to send a blood request massage to registered donors	
Main scenario	Step	Action
	1.	Admin goes to the website.
	2.	Login using with admin credentials.
	3.	Admin checks the reports.
	4.	Admin will identify which blood groups are missing.
	5.	Admin check the donor's information.
	6.	Admin sends the blood donation request alert to the selected donors.
Extensions	Step	Branching Action
	2a	Admin entered username or password invalid.
	6a	Registered donors have not received the blood donation request alert