

## **SSDs, SDs & Class diagram**

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### **Course Instructor**

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### **Submitted By**

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**Ahmad Javed\_21I-1108**

**Umama Saif\_22I-2558**



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**Apr 14, 2024**

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**Department of Software Engineering**

**FAST – National University of Computer & Emerging Sciences**

Task Description

Responsible Person(s)

**Use Case Development**

**Write Use Cases 1-5**

**Aamina Bokhari**

**Write Use Cases 6-10**

**Ahmad Javed**

**Write Use Cases 11-15**

**Umama Saif**

**System Sequence Diagrams (SSD)  
Development**

**Create SSDs for Use Cases 1-5**

**Aamina Bokhari**

**Create SSDs for Use Cases 6-10**

**Ahmad Javed**

**Create SSDs for Use Cases 11-15**

**Umama Saif**

## **Sequence Diagrams (SD) Development**

**Create SDs for Use Cases 1-5**

**Aamina Bokhari**

**Create SDs for Use Cases 6-10**

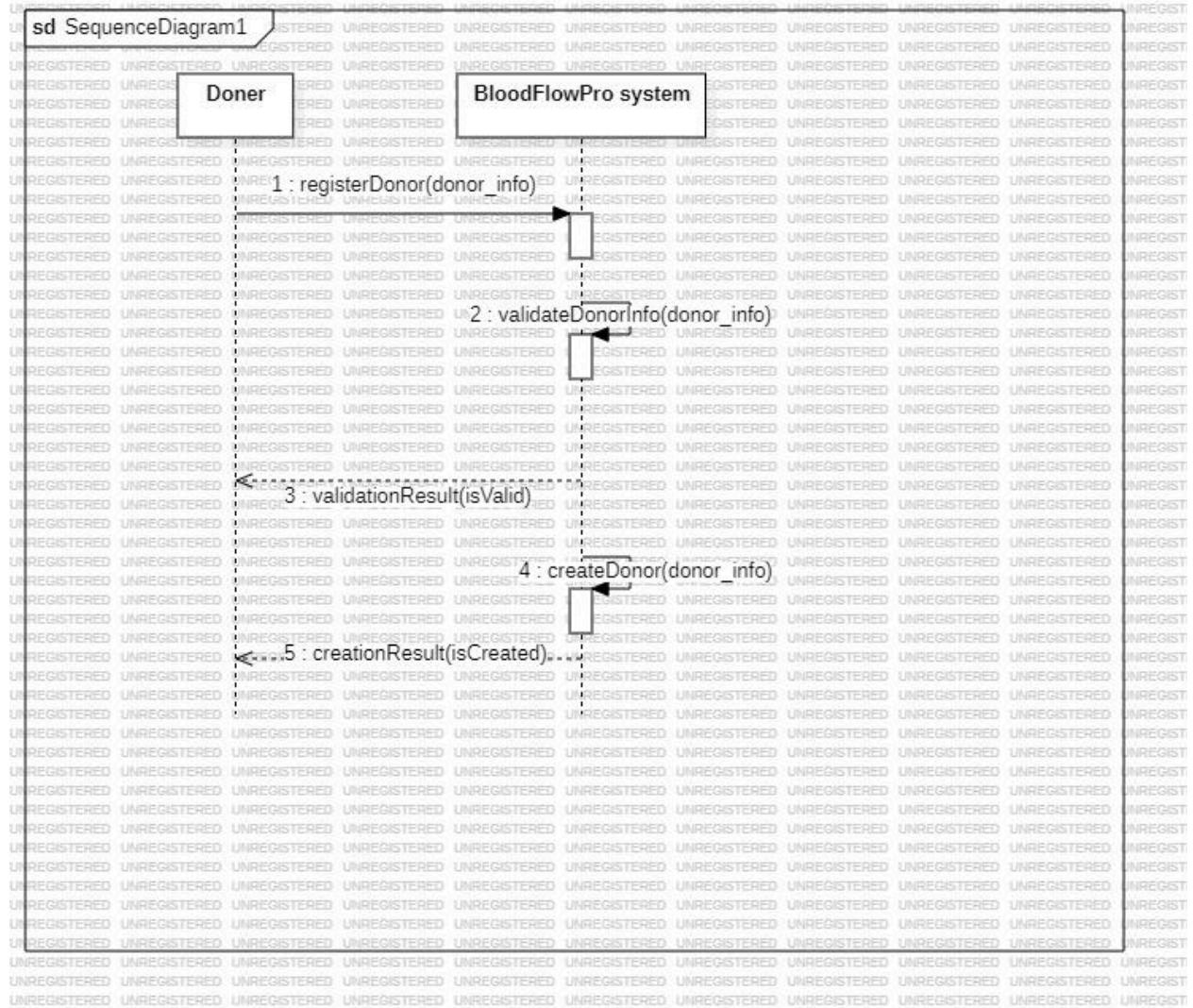
**Ahmad Javed**

**Create SDs for Use Cases 11-15**

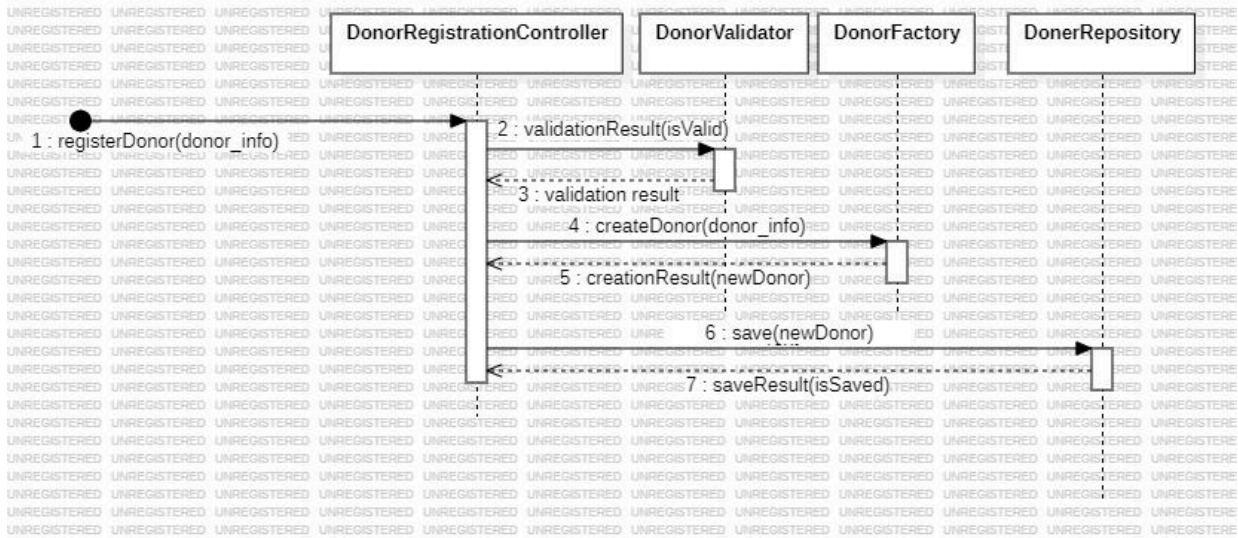
**Umama Saif**

# Use Case 1: Register Donor

System Sequence Diagram:

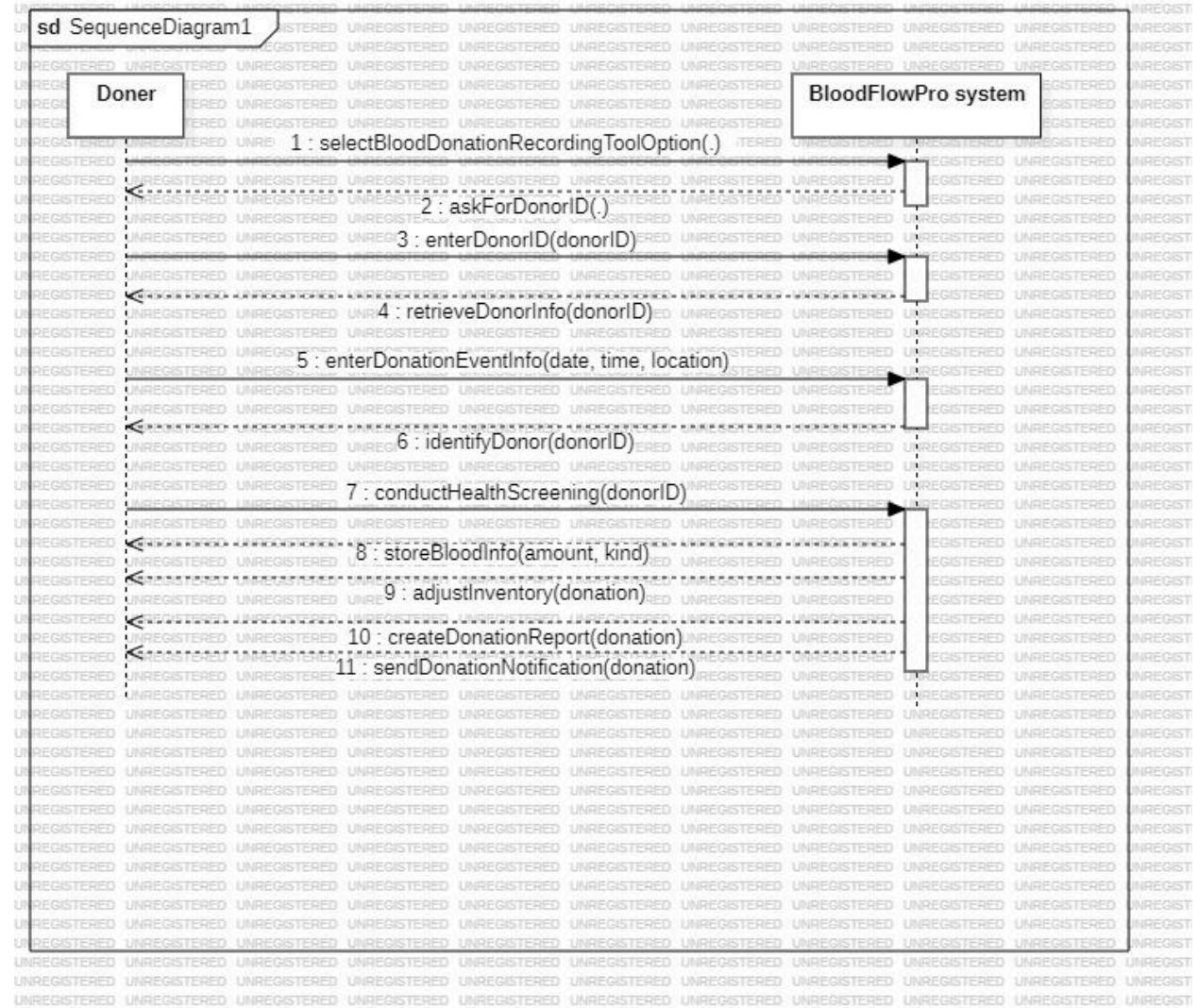


Sequence Diagram:

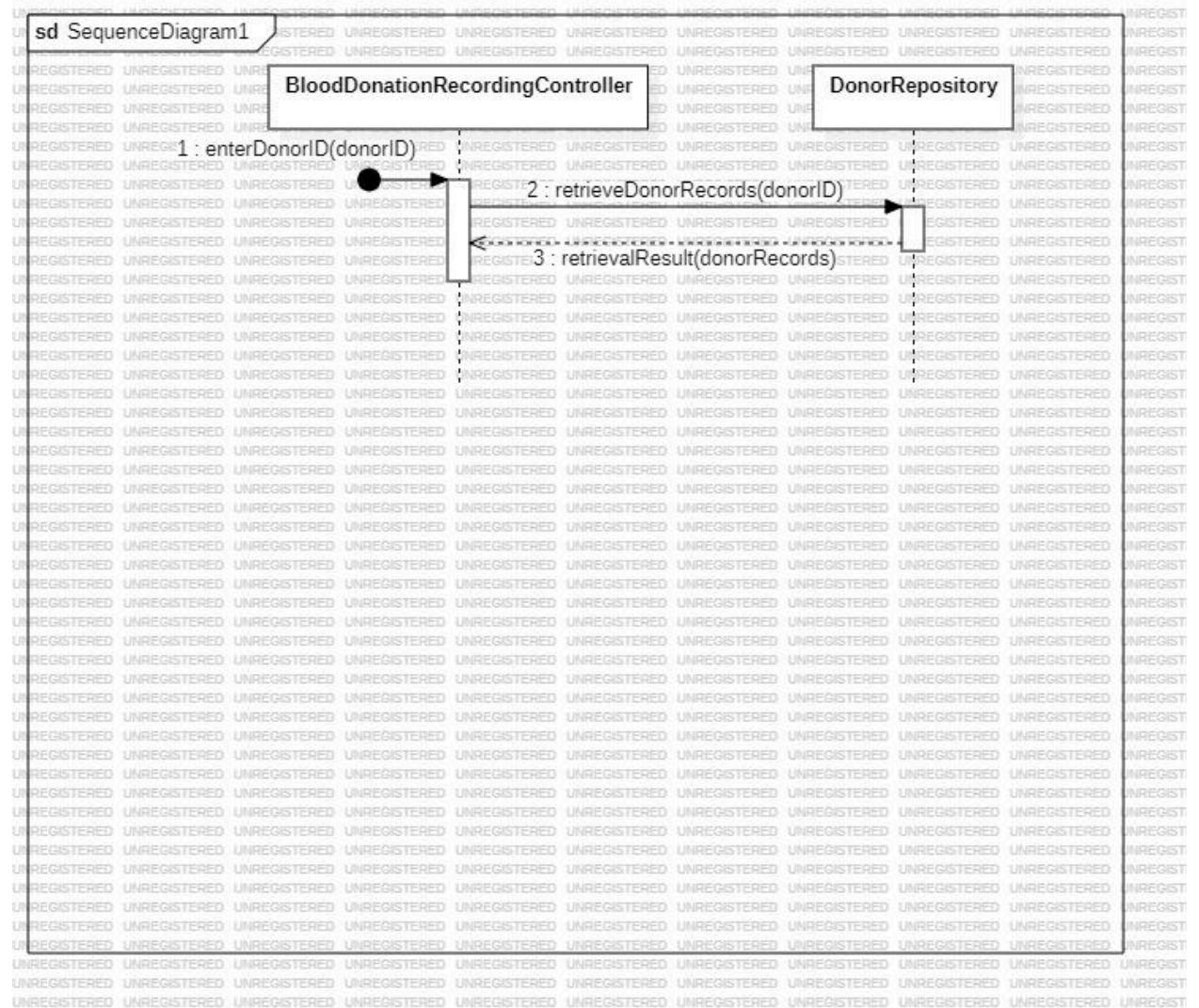
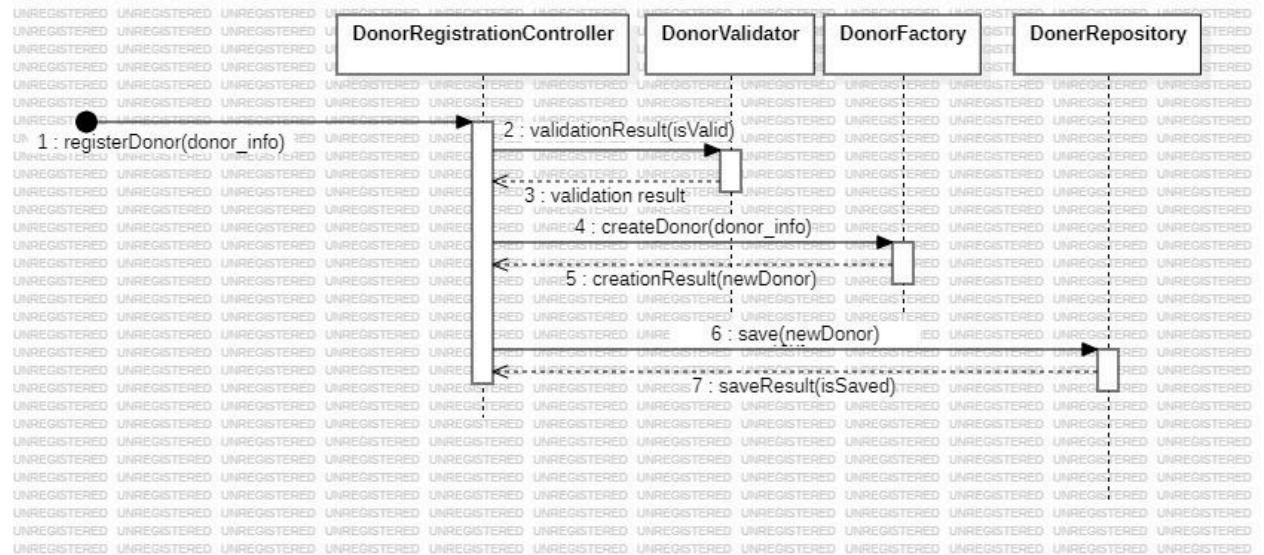


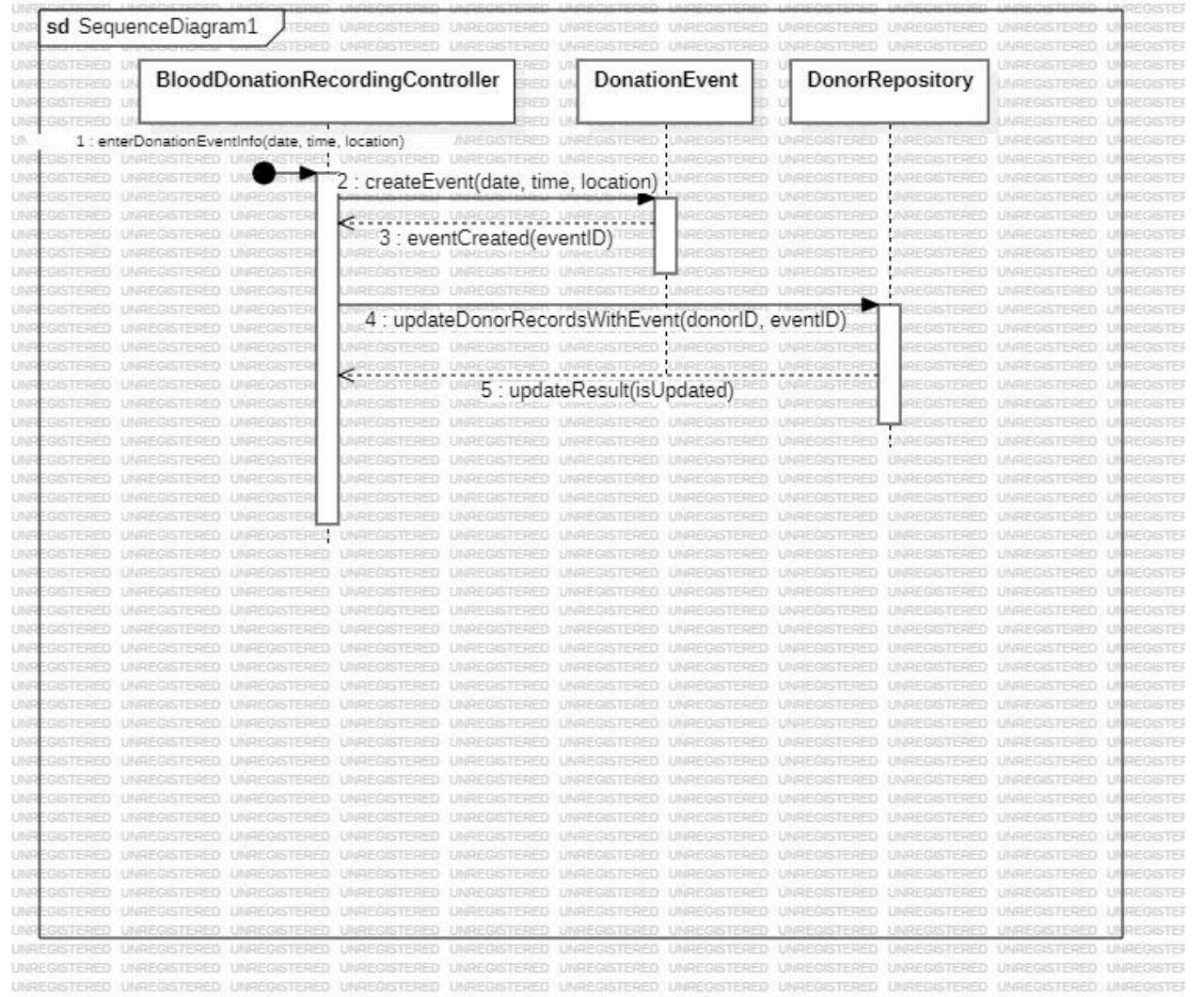
## Use Case 2: Record Blood Donation

### System Sequence Diagram:



### Sequence Diagram:

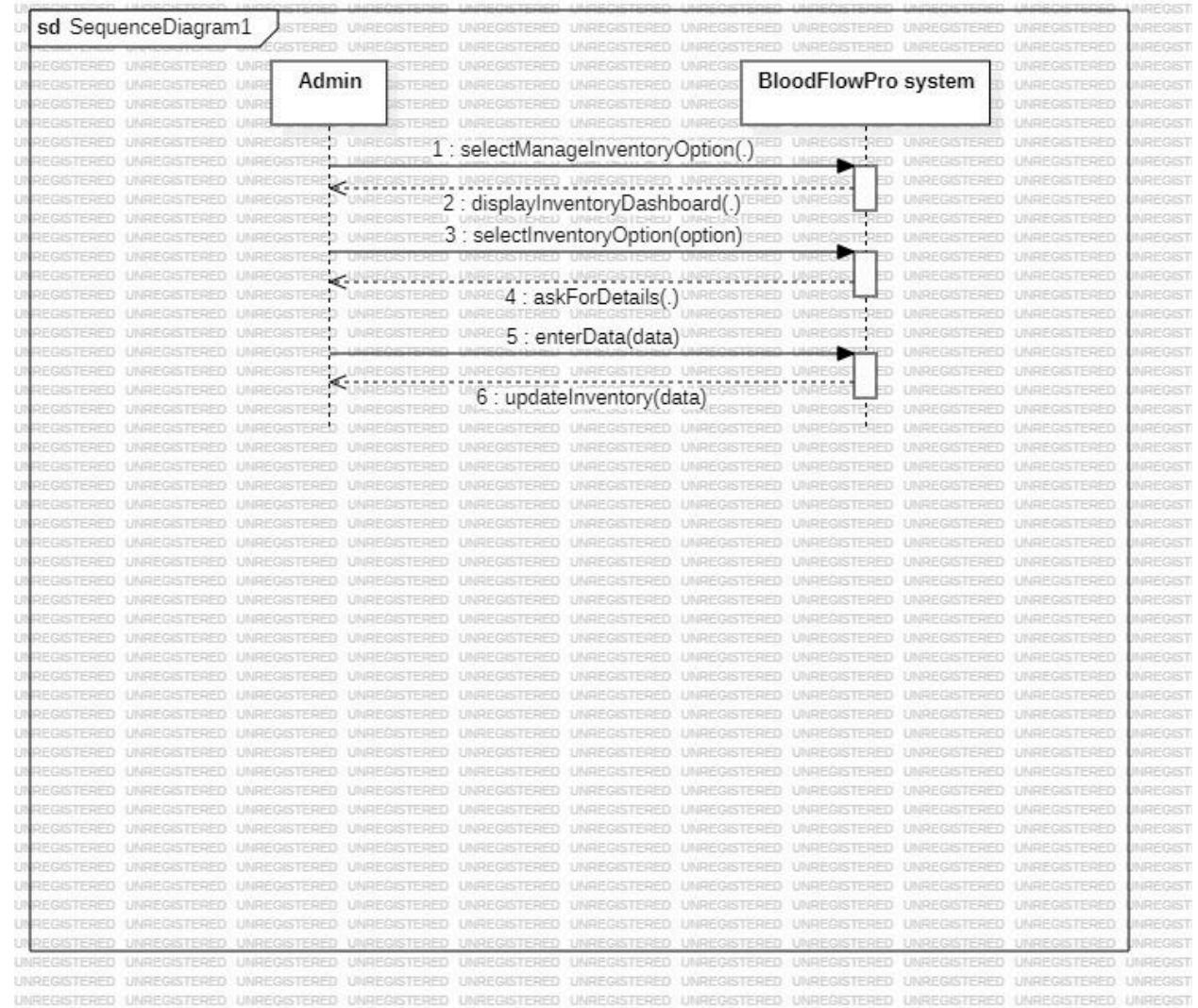




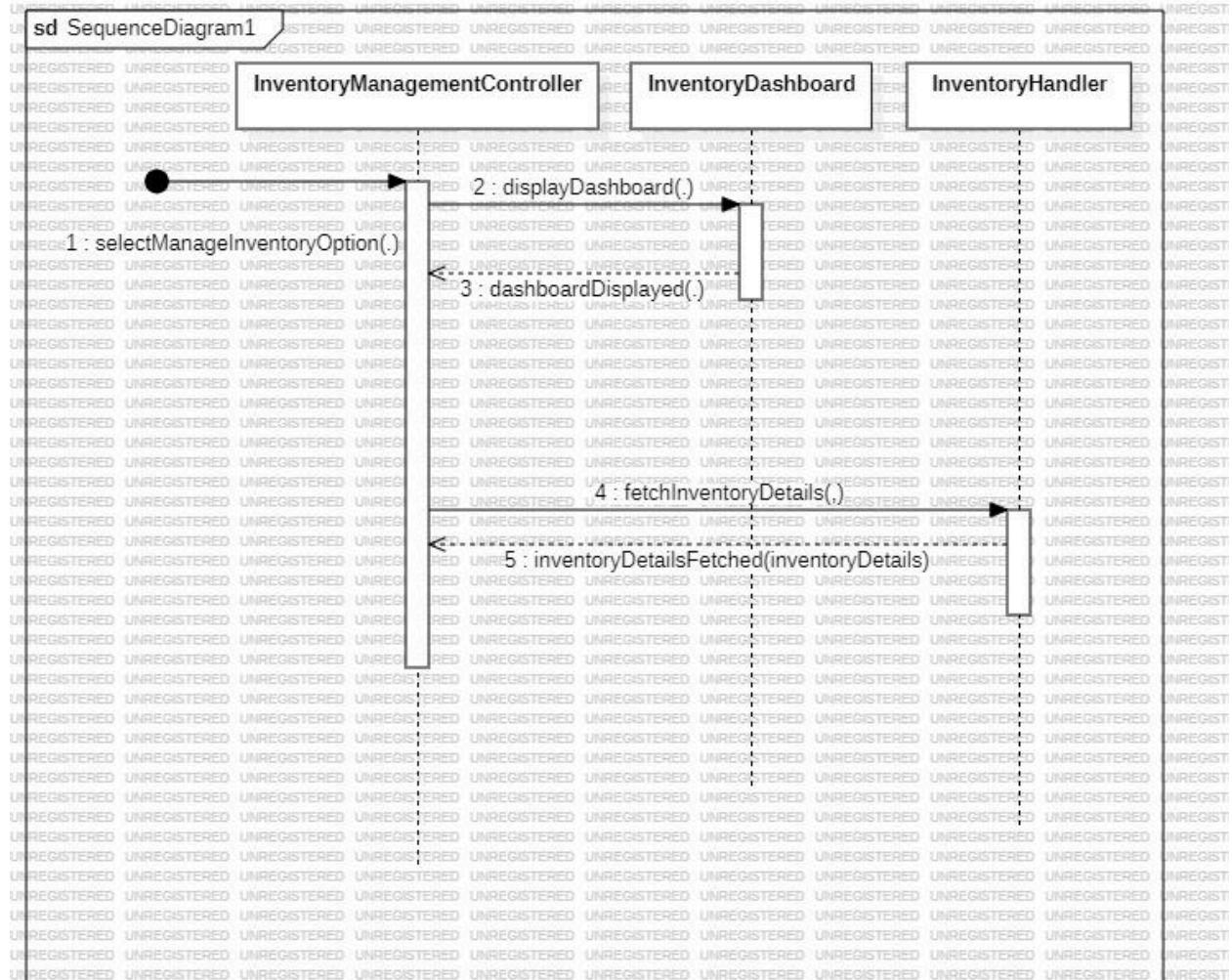


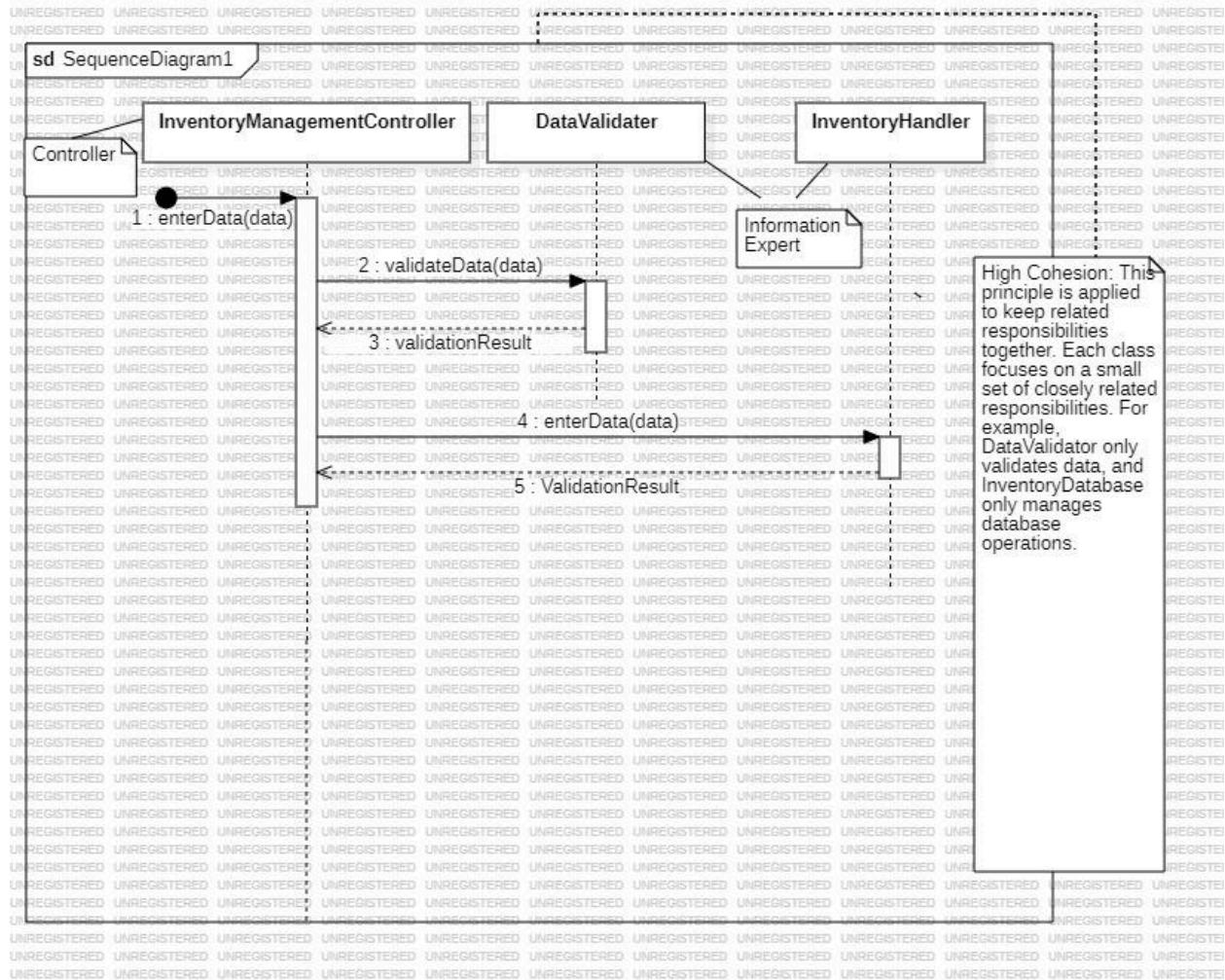
# Use Case 3: Manage Inventory

## System Sequence Diagram:



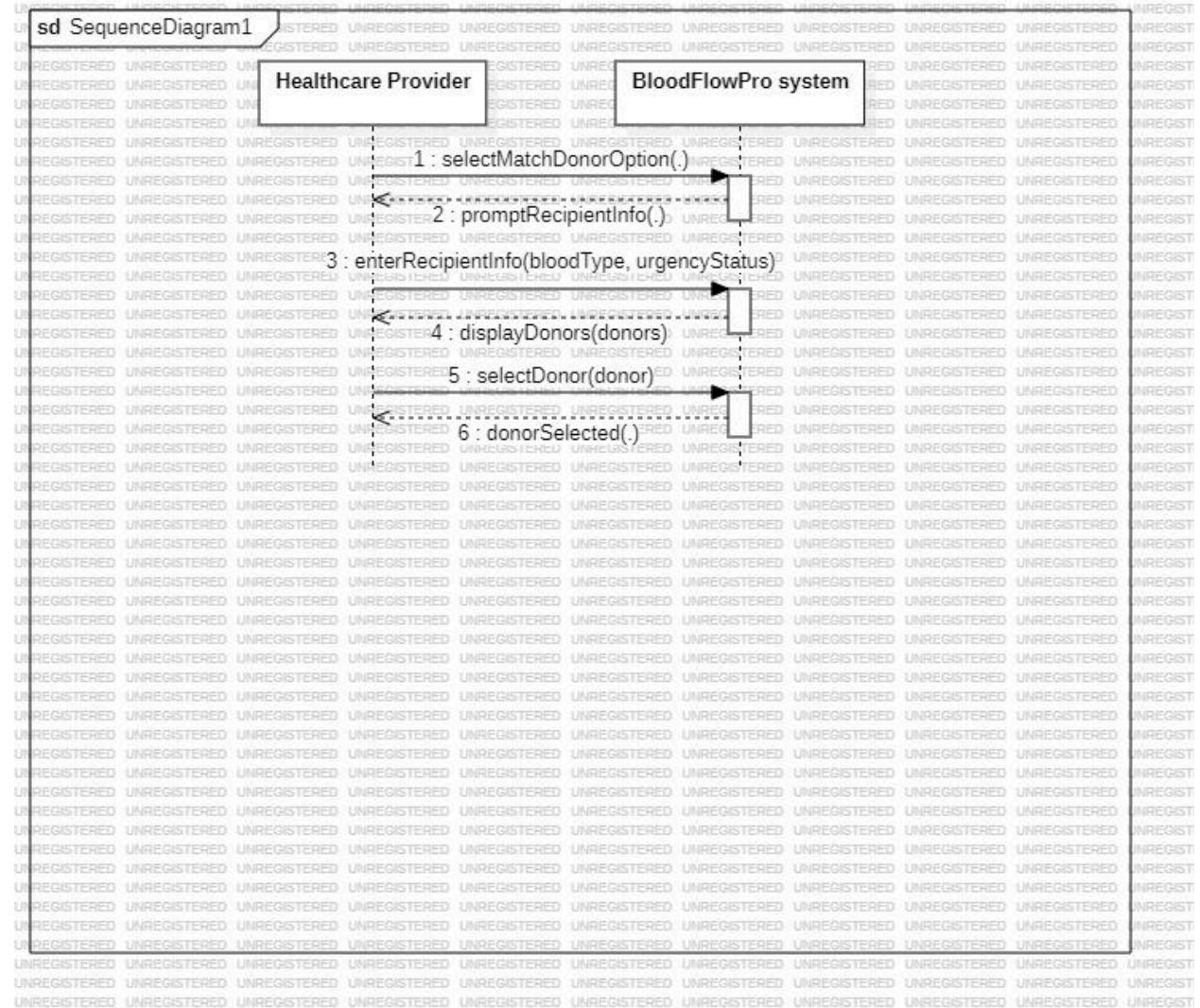
## Sequence Diagram:



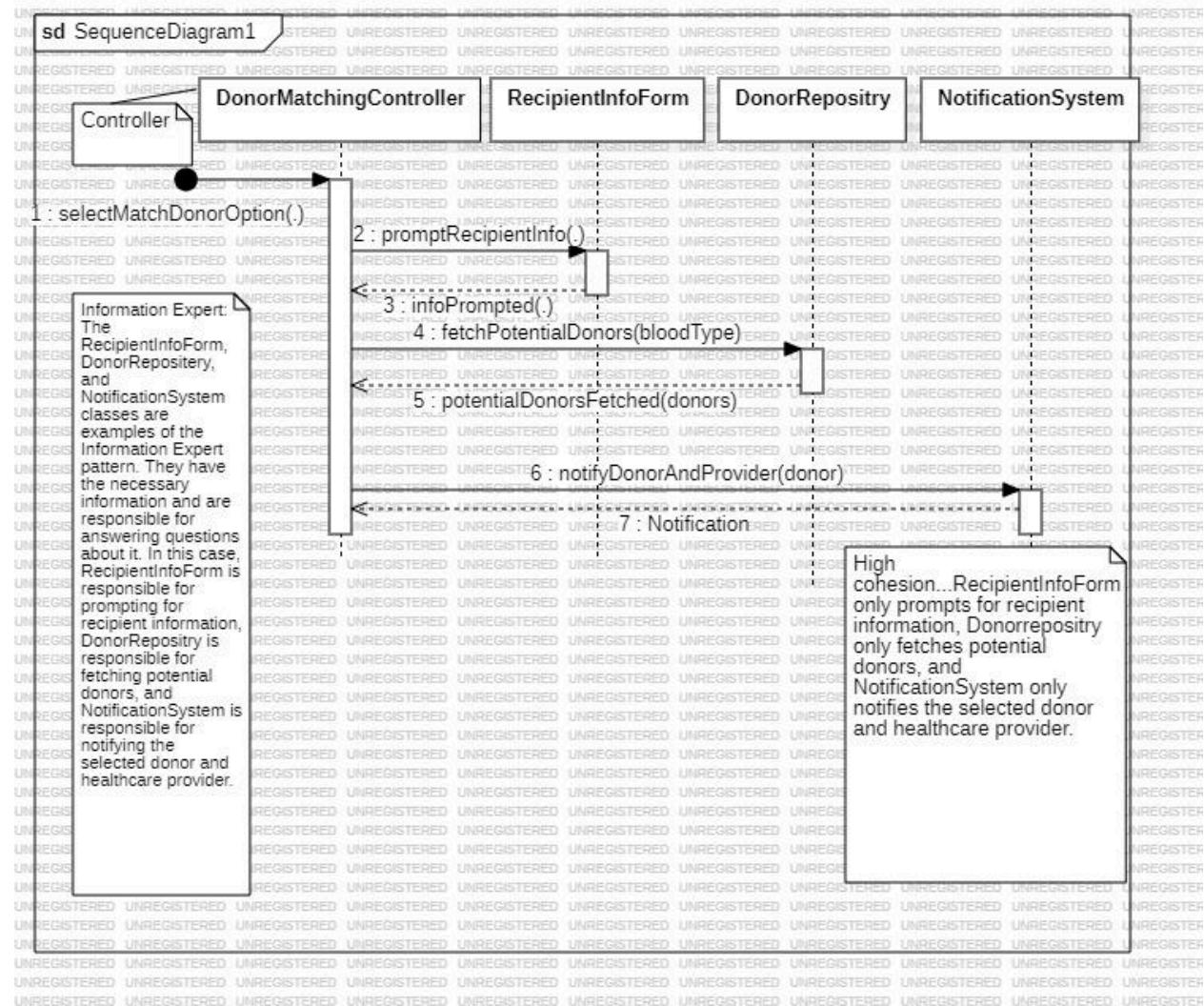


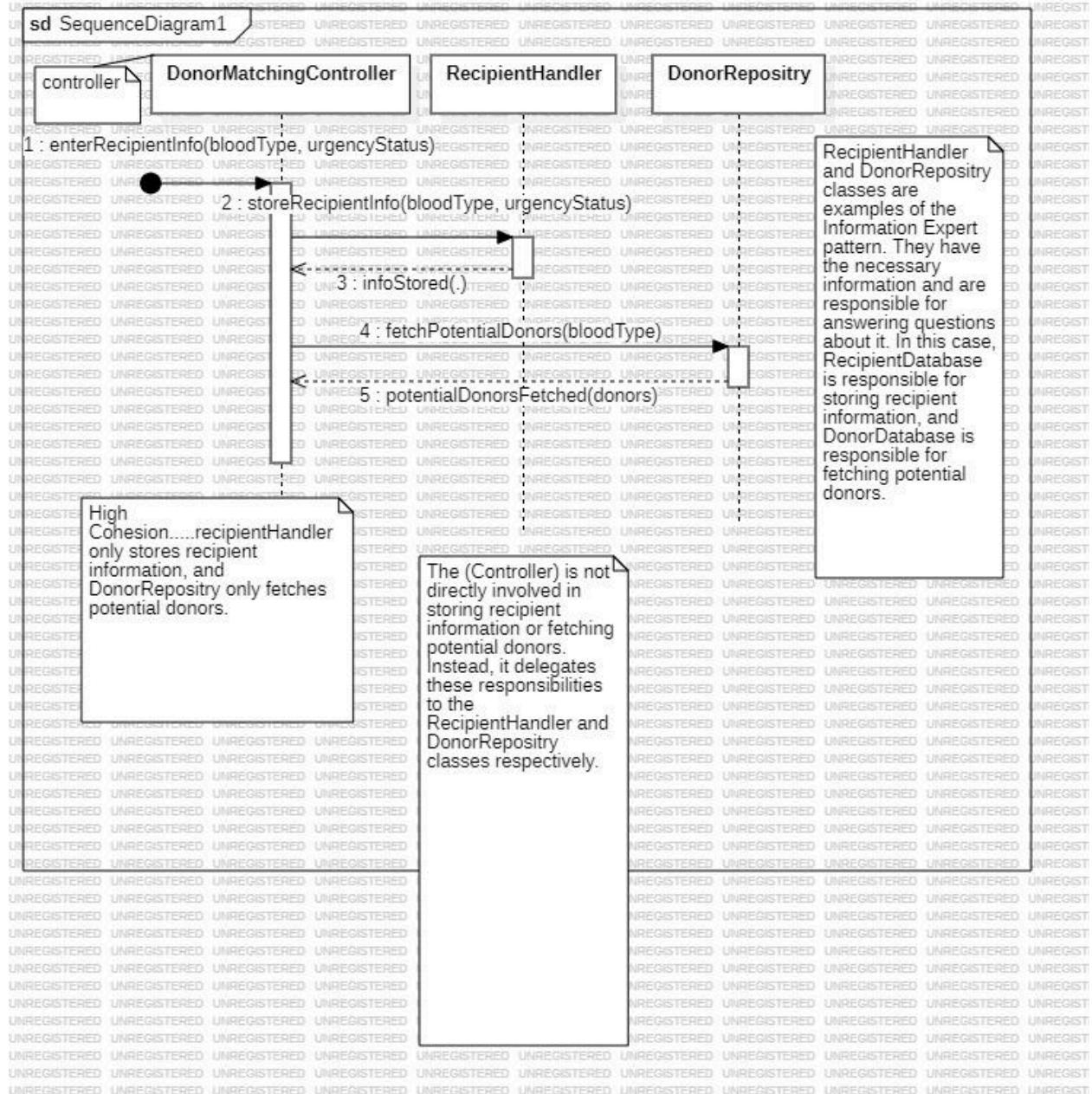
## Use Case 4: Match Donor

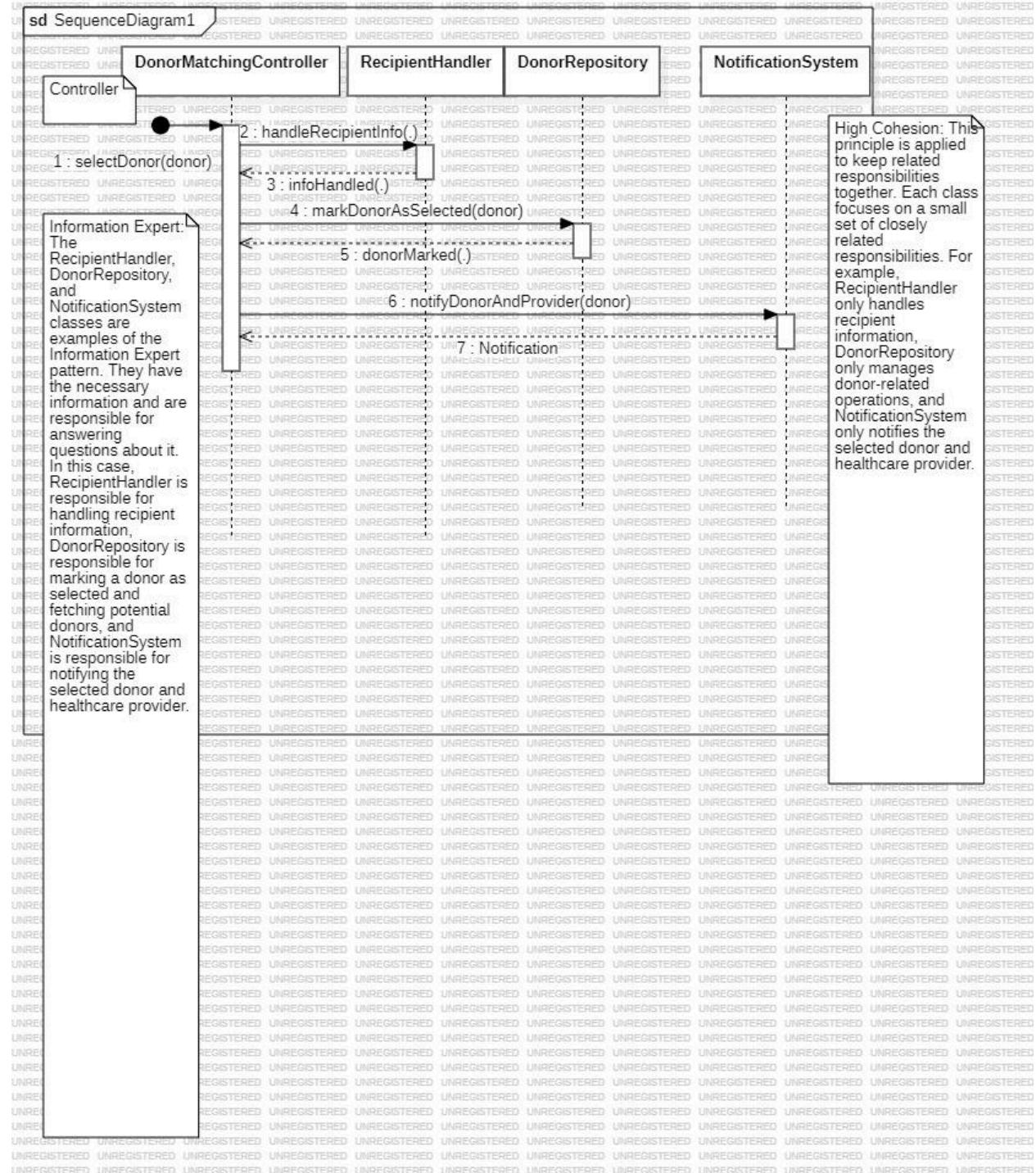
System Sequence Diagram:



## Sequence Diagram:



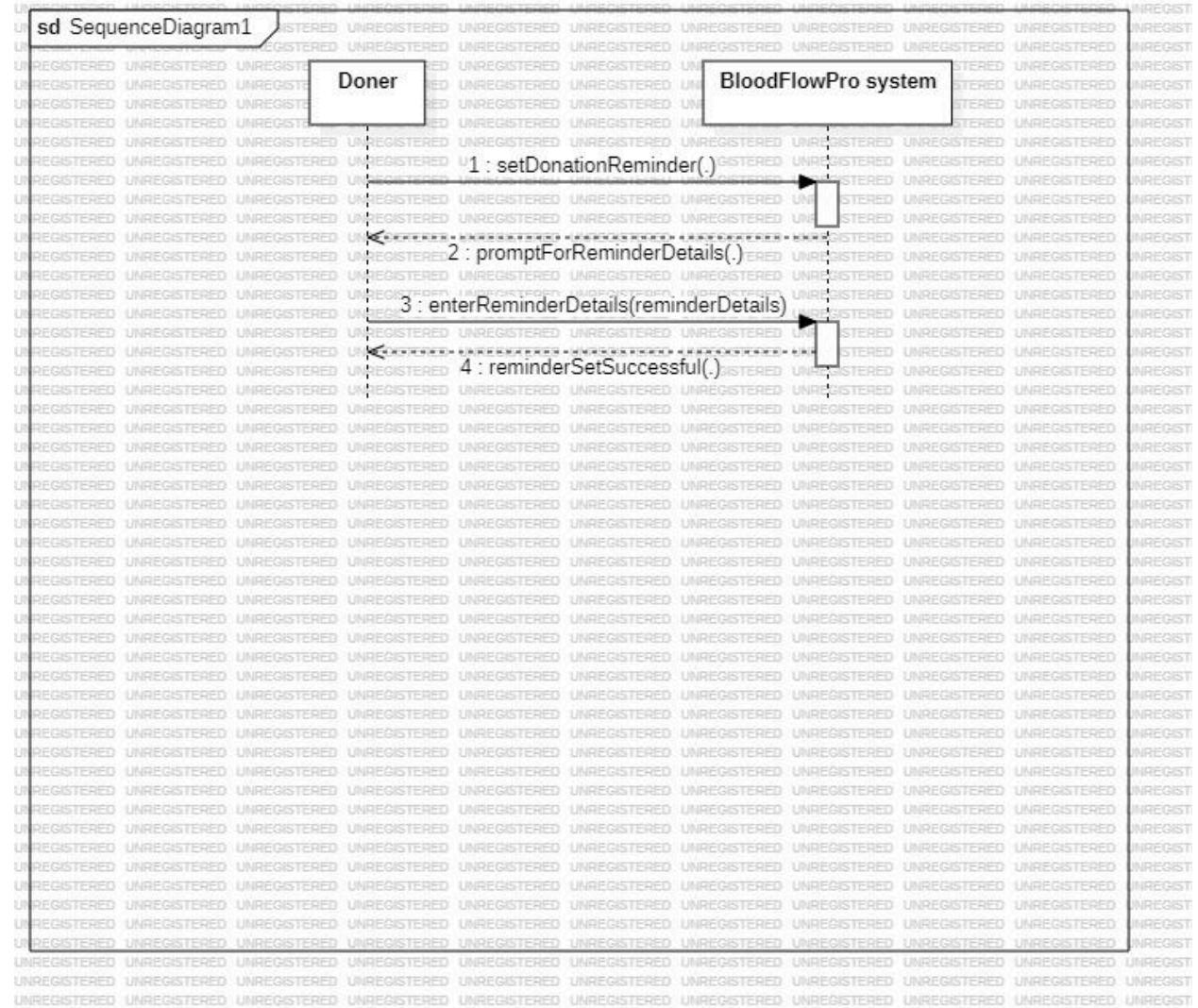




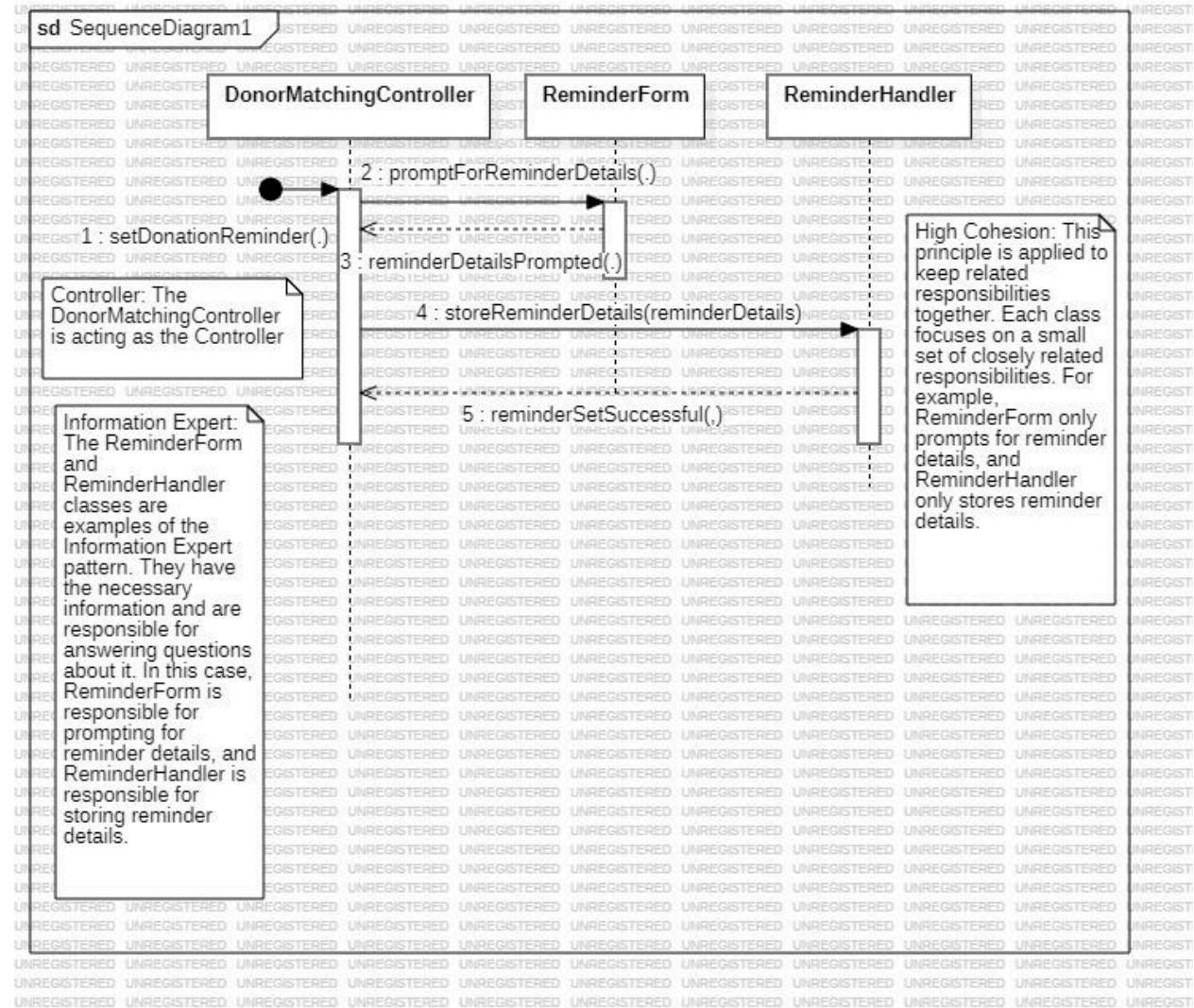


# Use Case 5: Set Blood donation Reminders

## System Sequence Diagram:

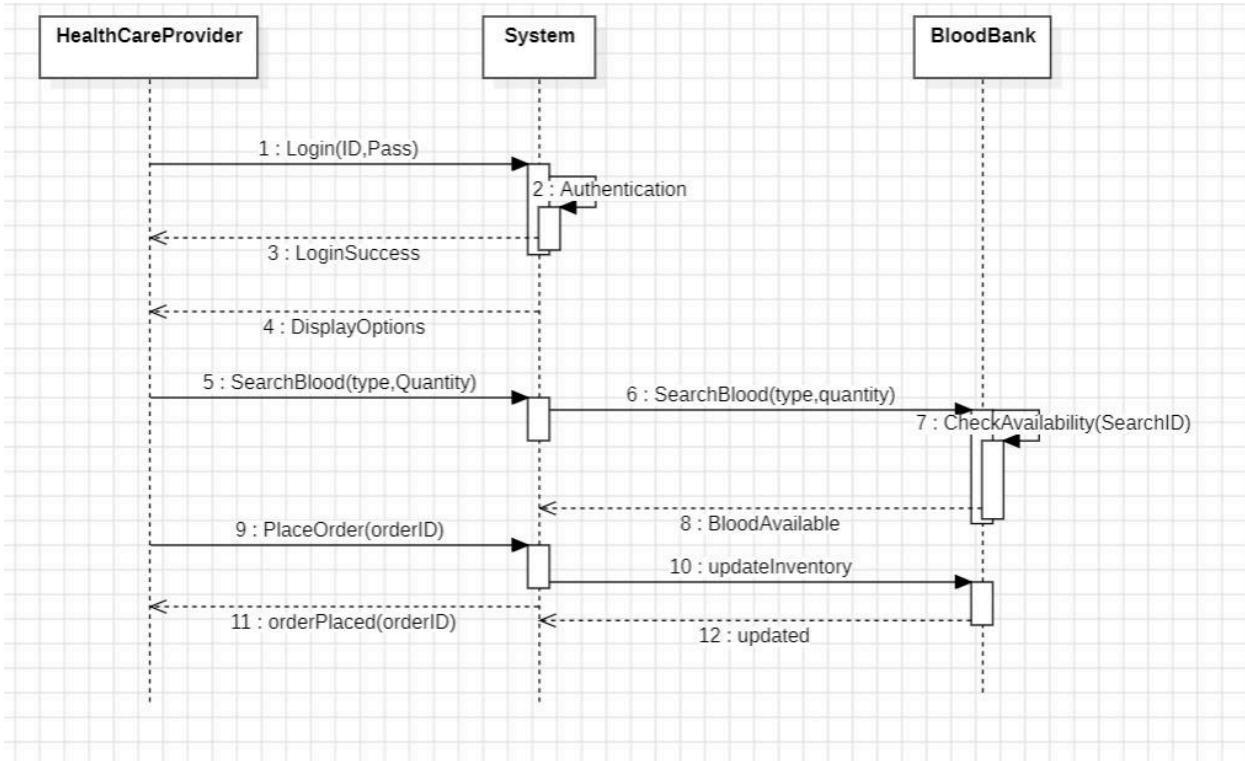


## Sequence Diagram:

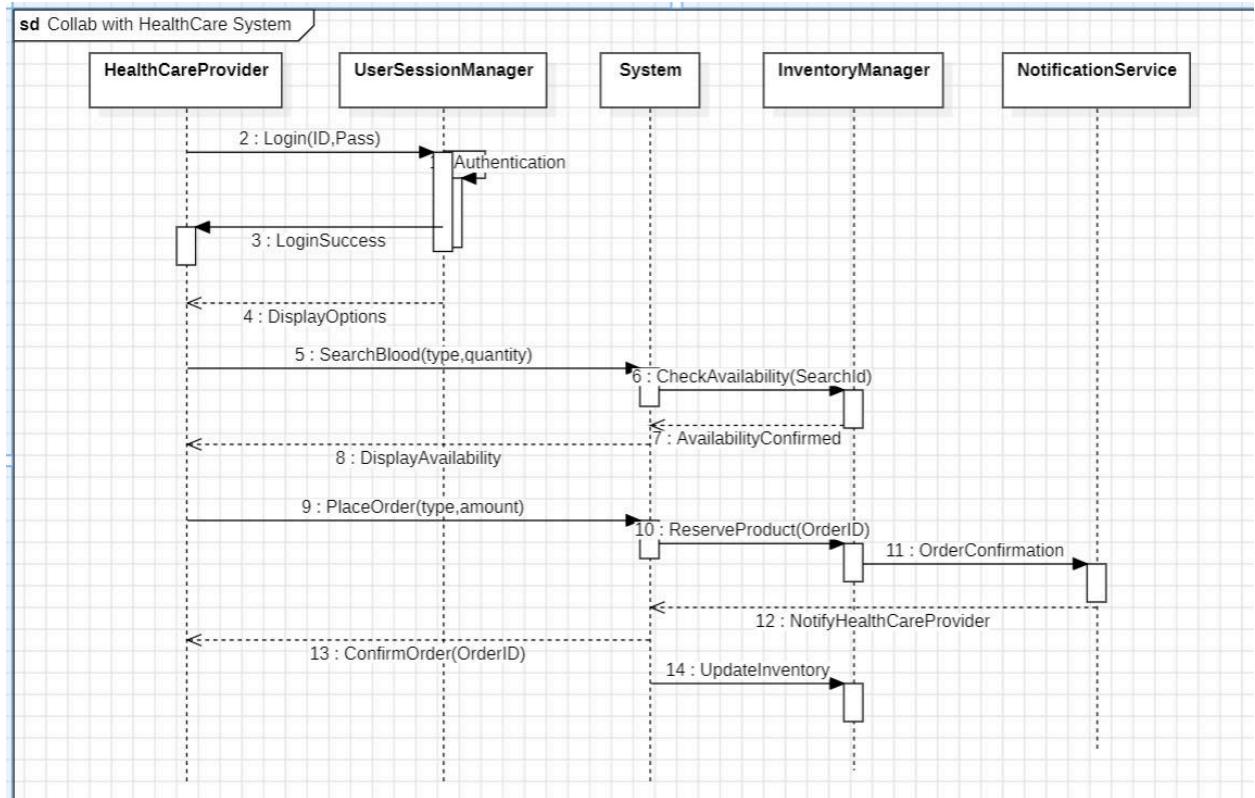


## Use Case 6: Collaboration with Healthcare Providers

System Sequence Diagram:

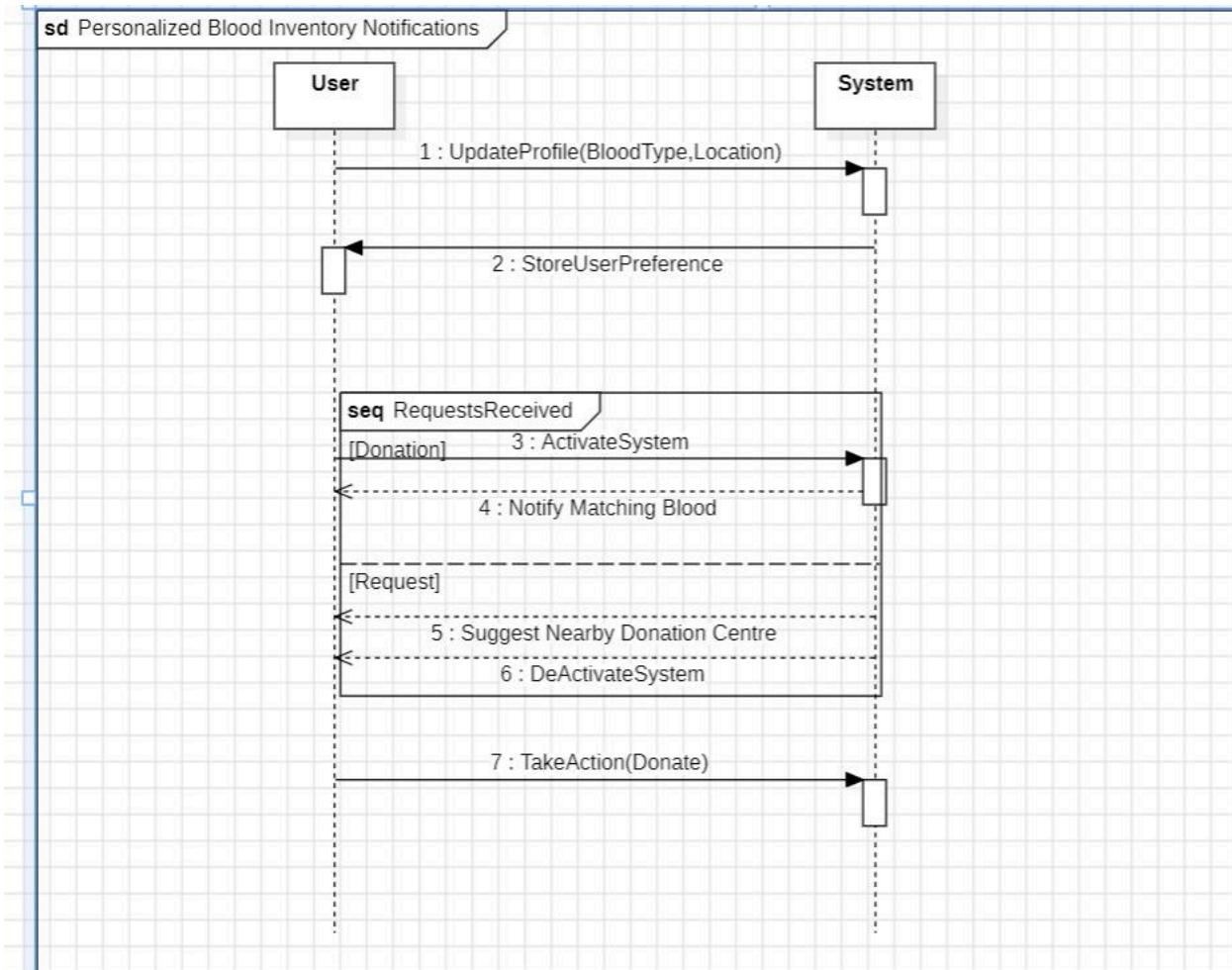


Sequence Diagram:

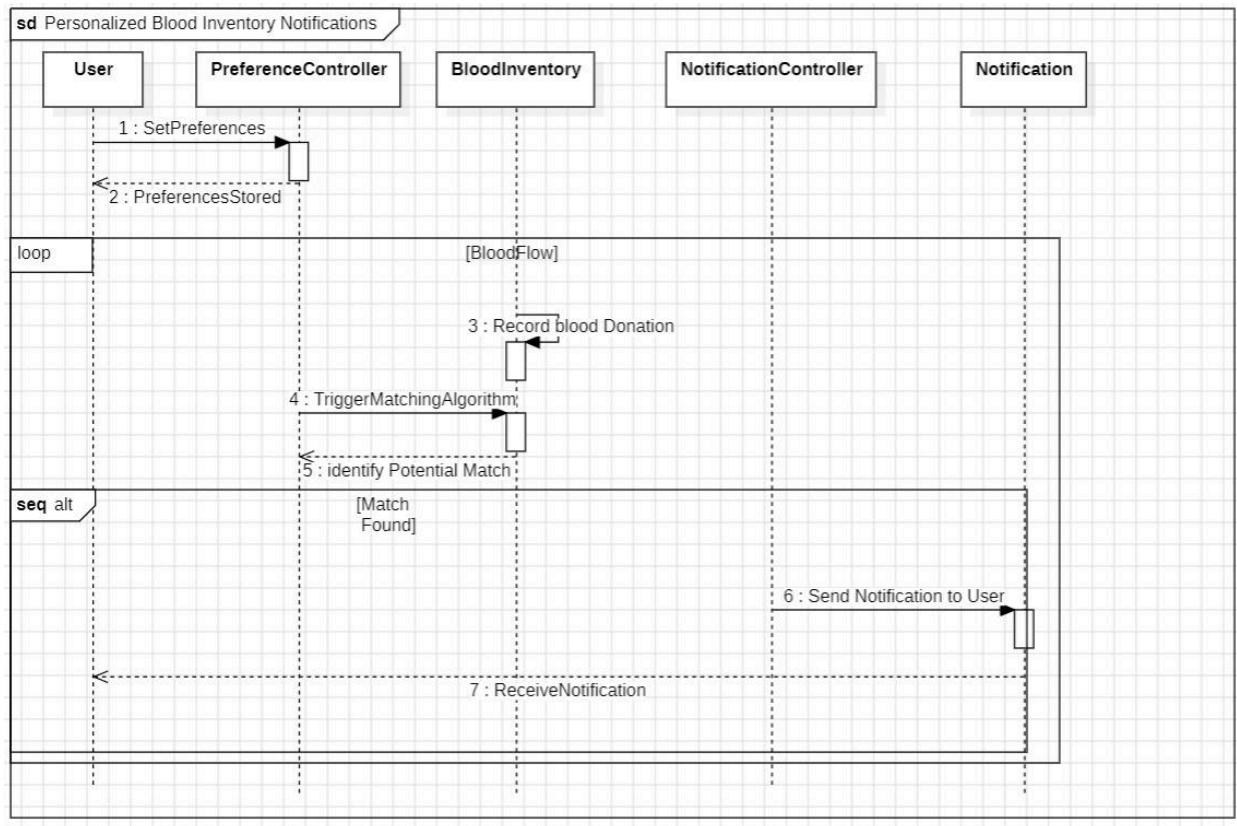


## Use Case 7: Personalized Blood Inventory Notifications

System Sequence Diagram:

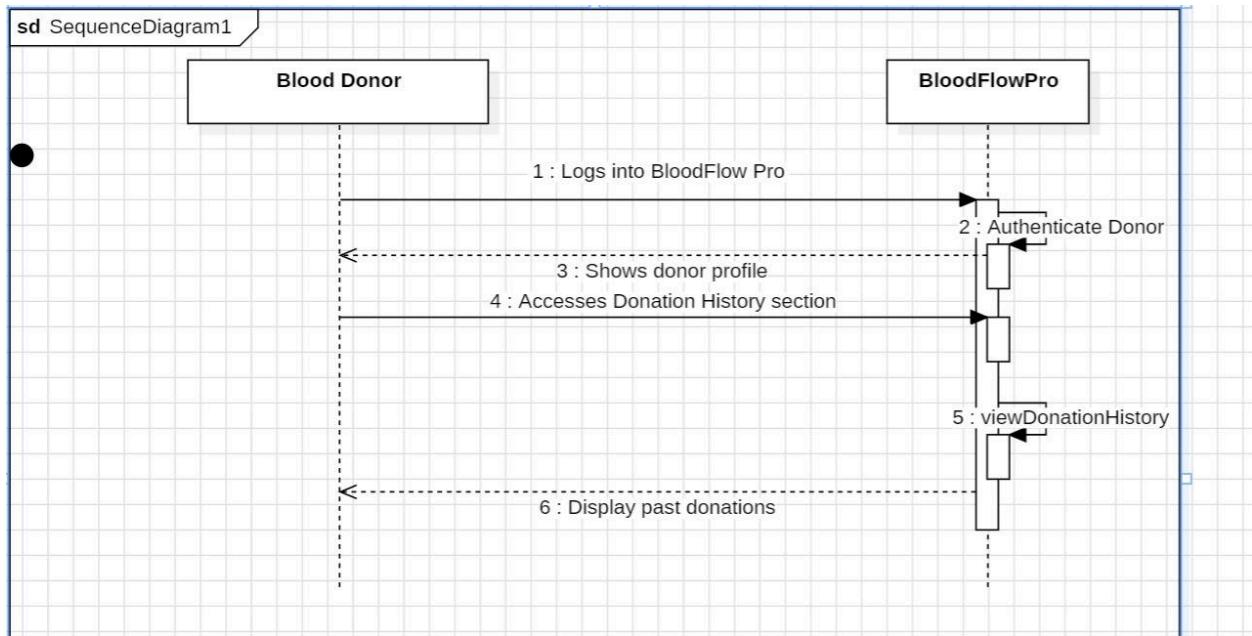


## Sequence Diagram:

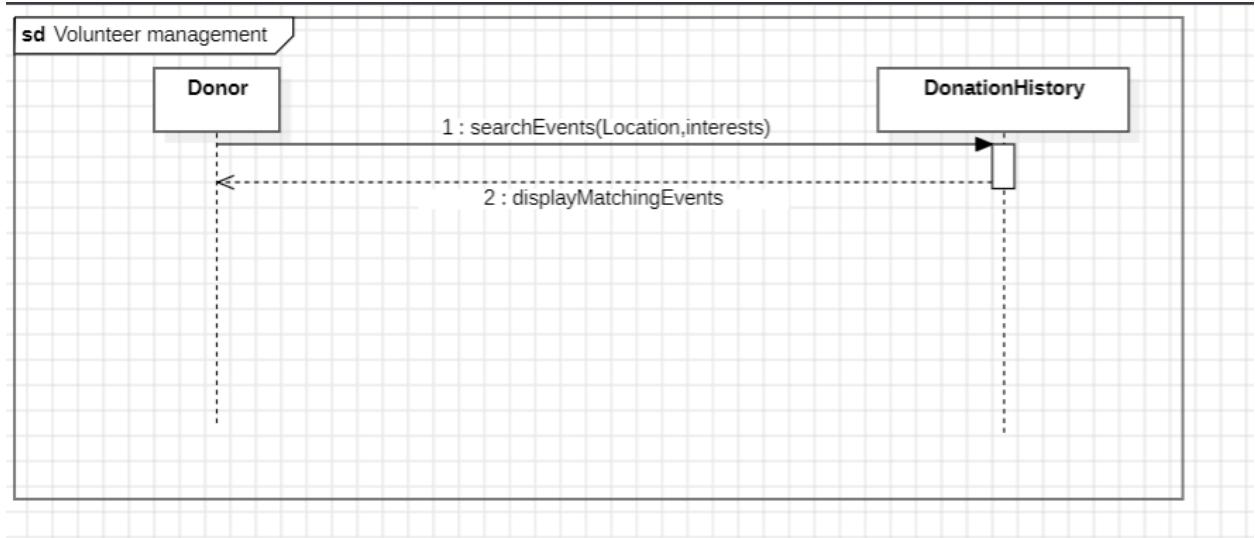


## Use Case 8: Donation History Tracking

System Sequence Diagram:

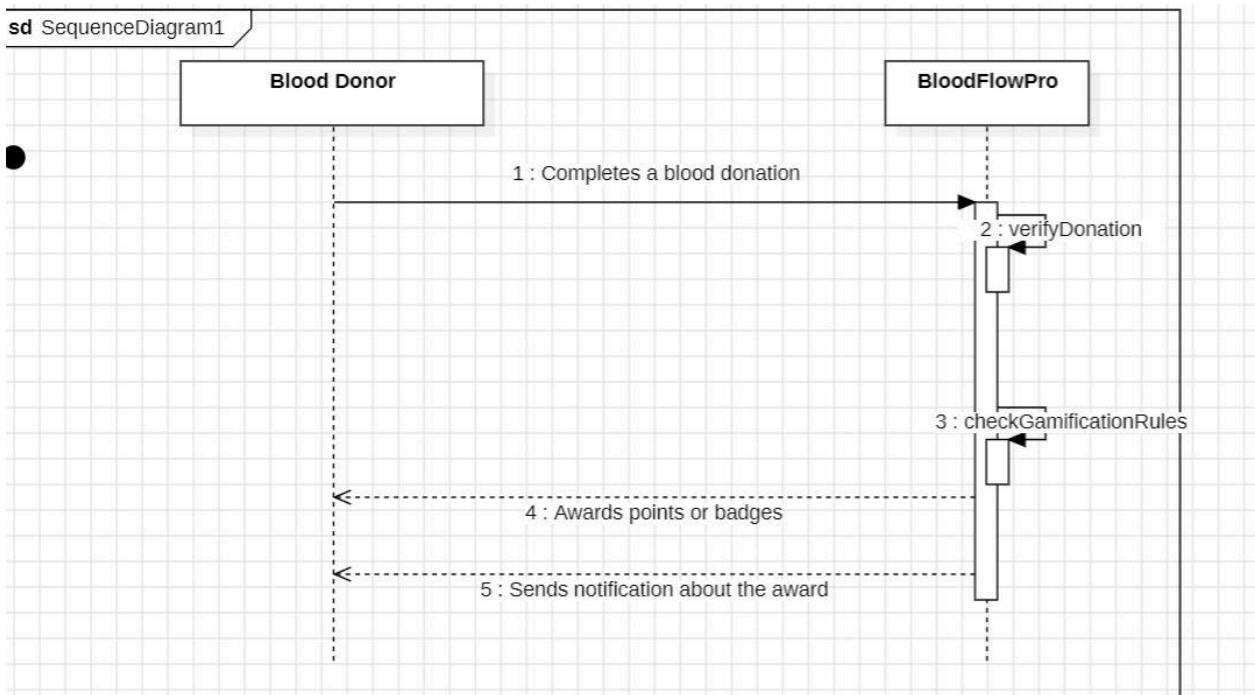


Sequence Diagram:

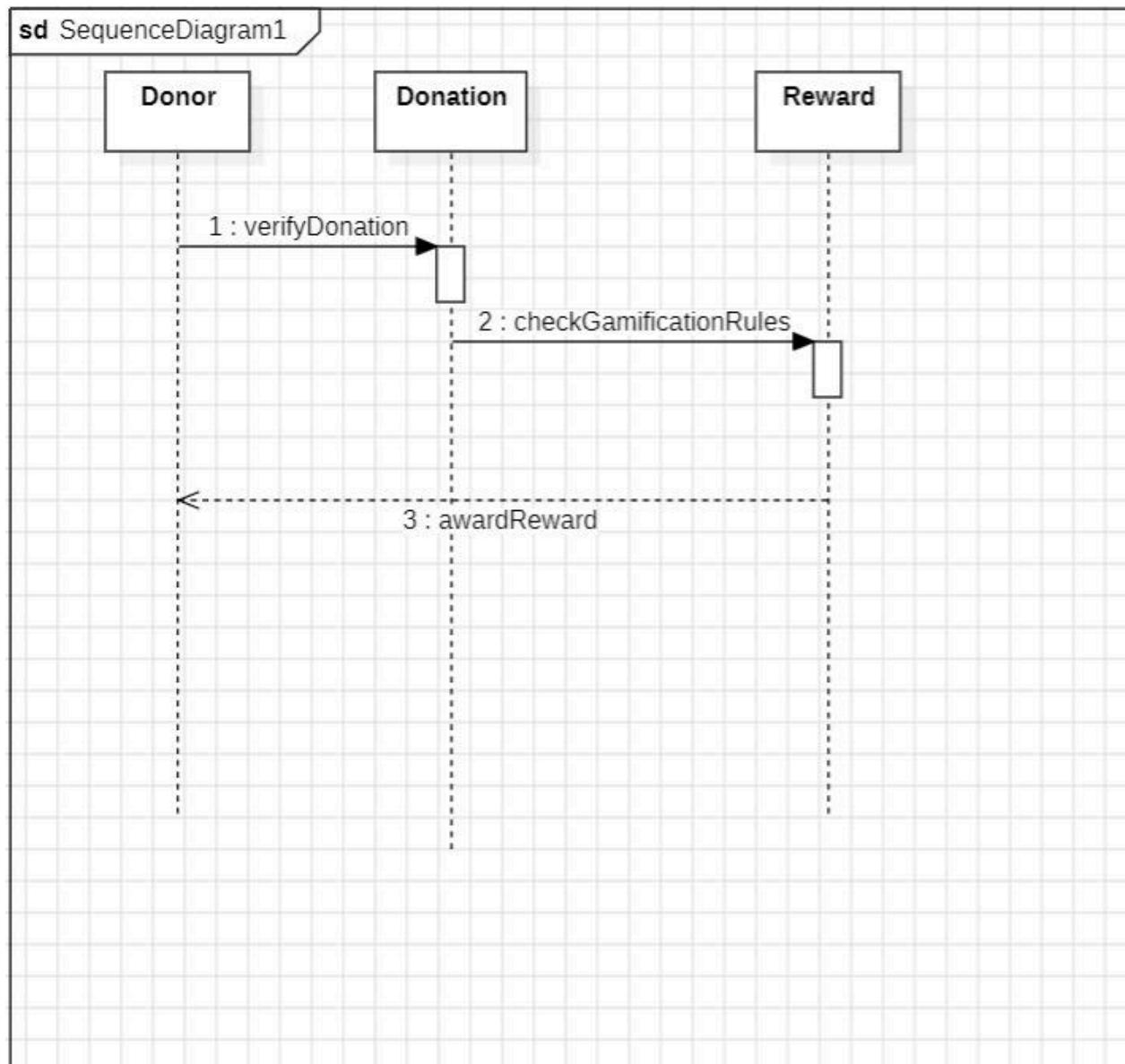


## Use Case 9: Gamification Features

System Sequence Diagram:

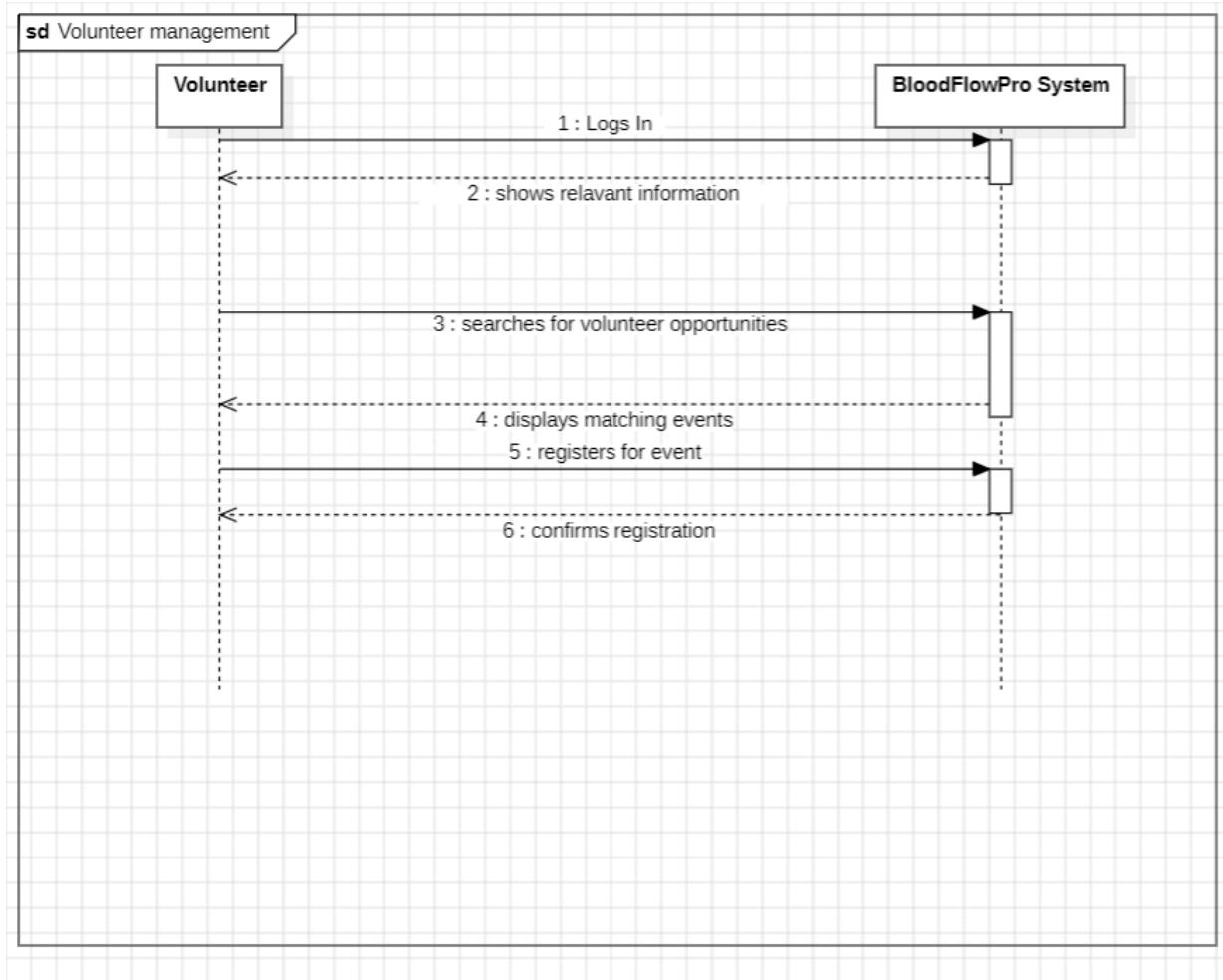


Sequence Diagram:

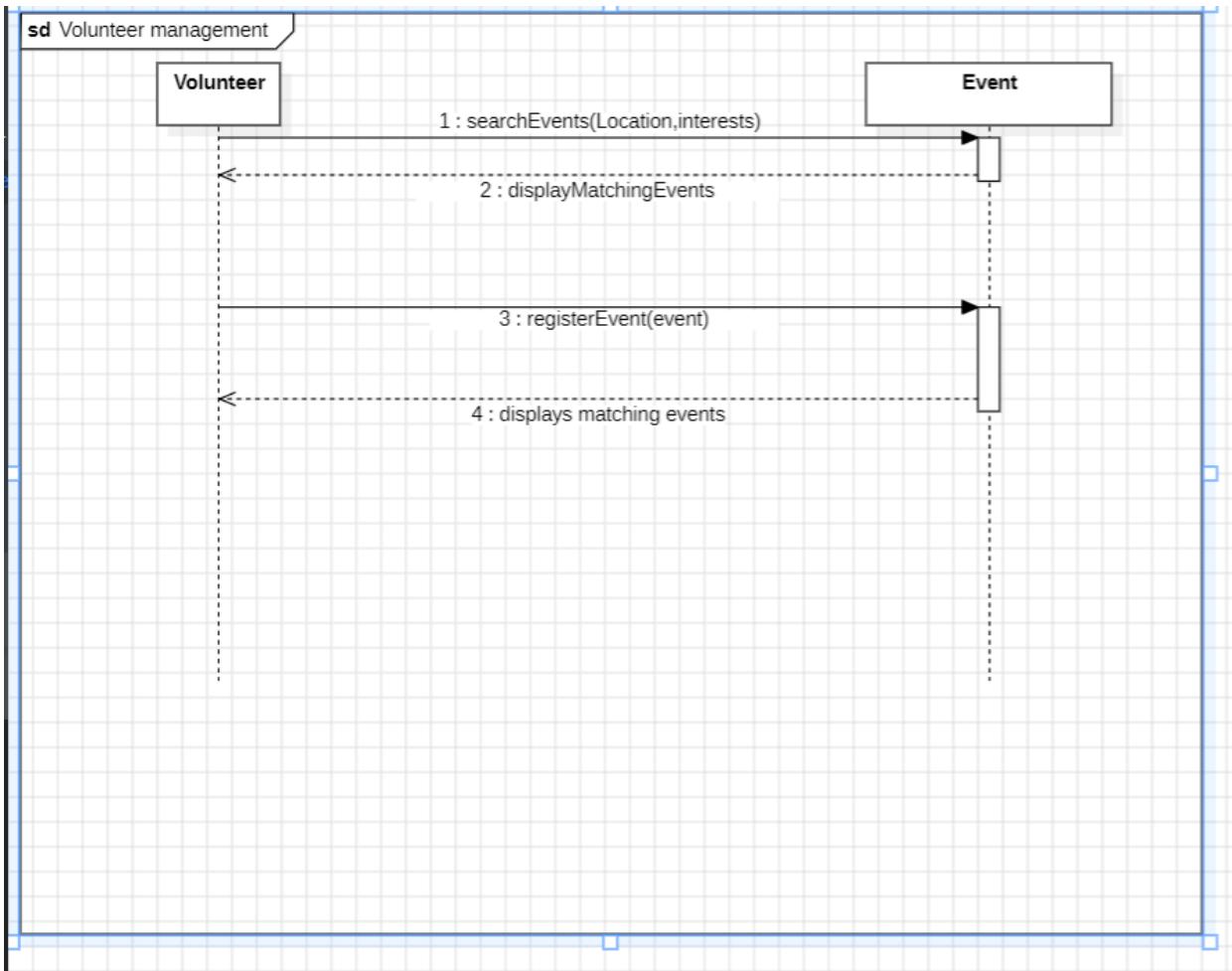


## Use Case 10: Volunteer Management

System Sequence Diagram:

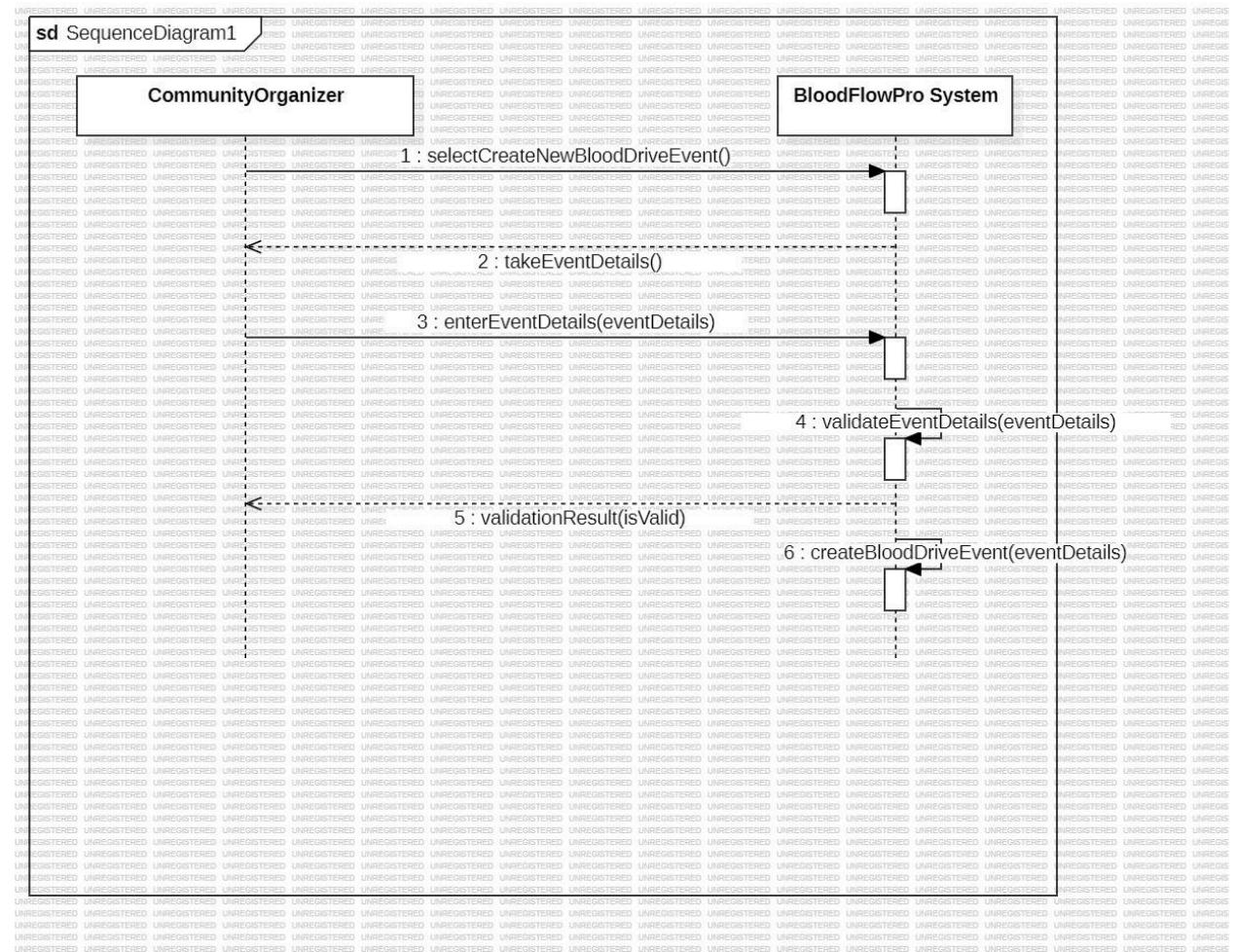


Sequence Diagram:

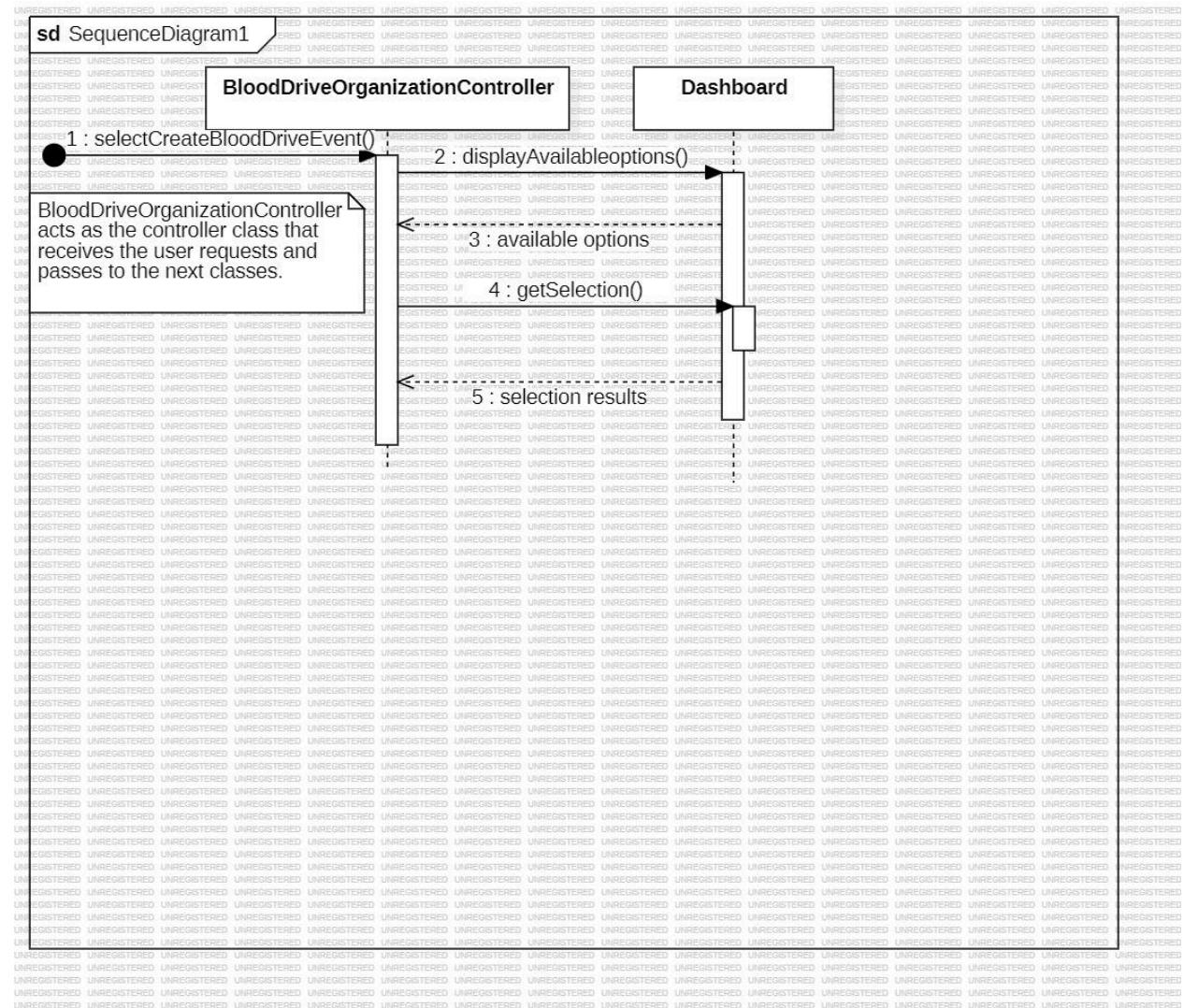


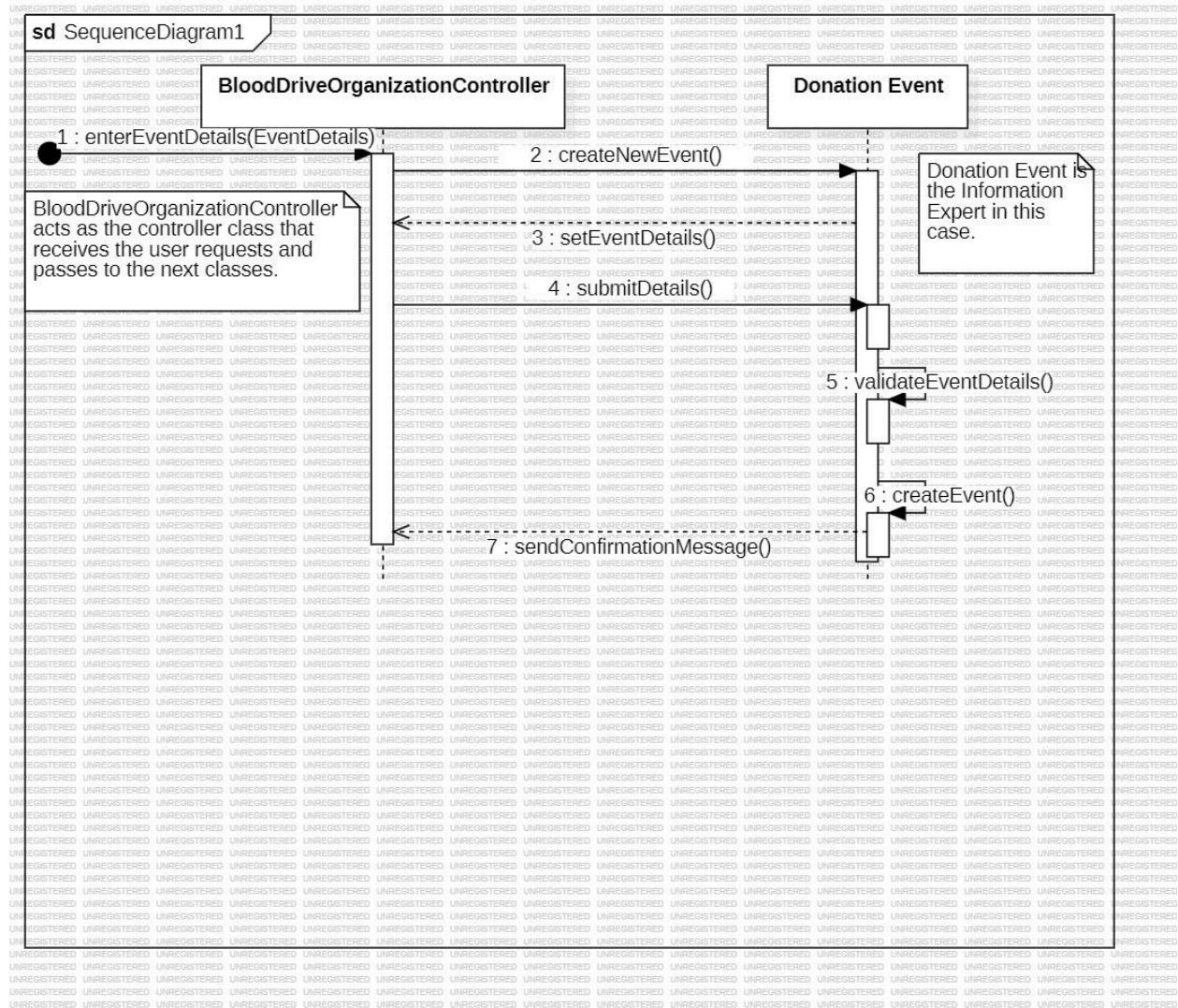
# Use Case 11: Manage Blood Drive Organization

## System Sequence Diagram:



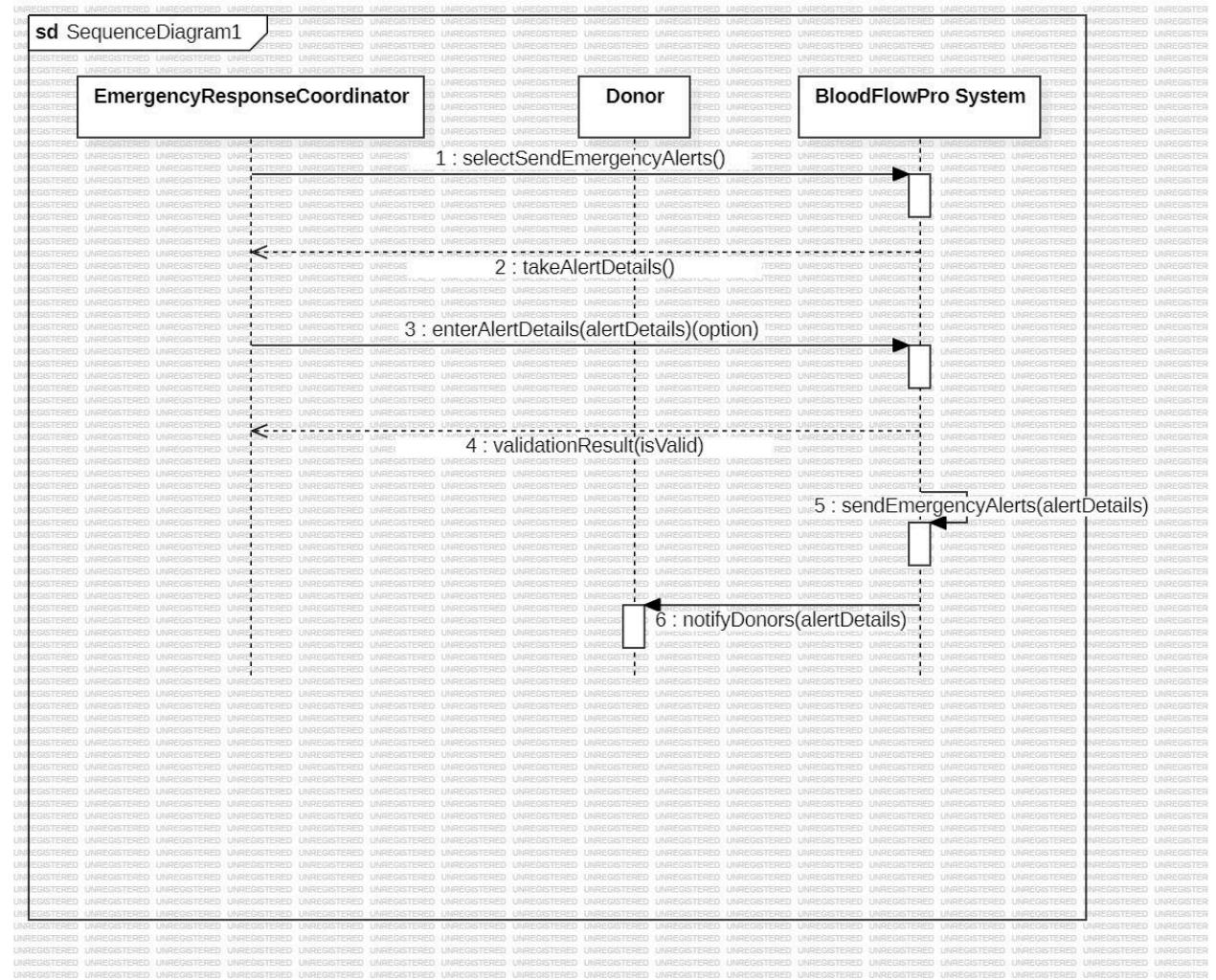
## Sequence Diagram:



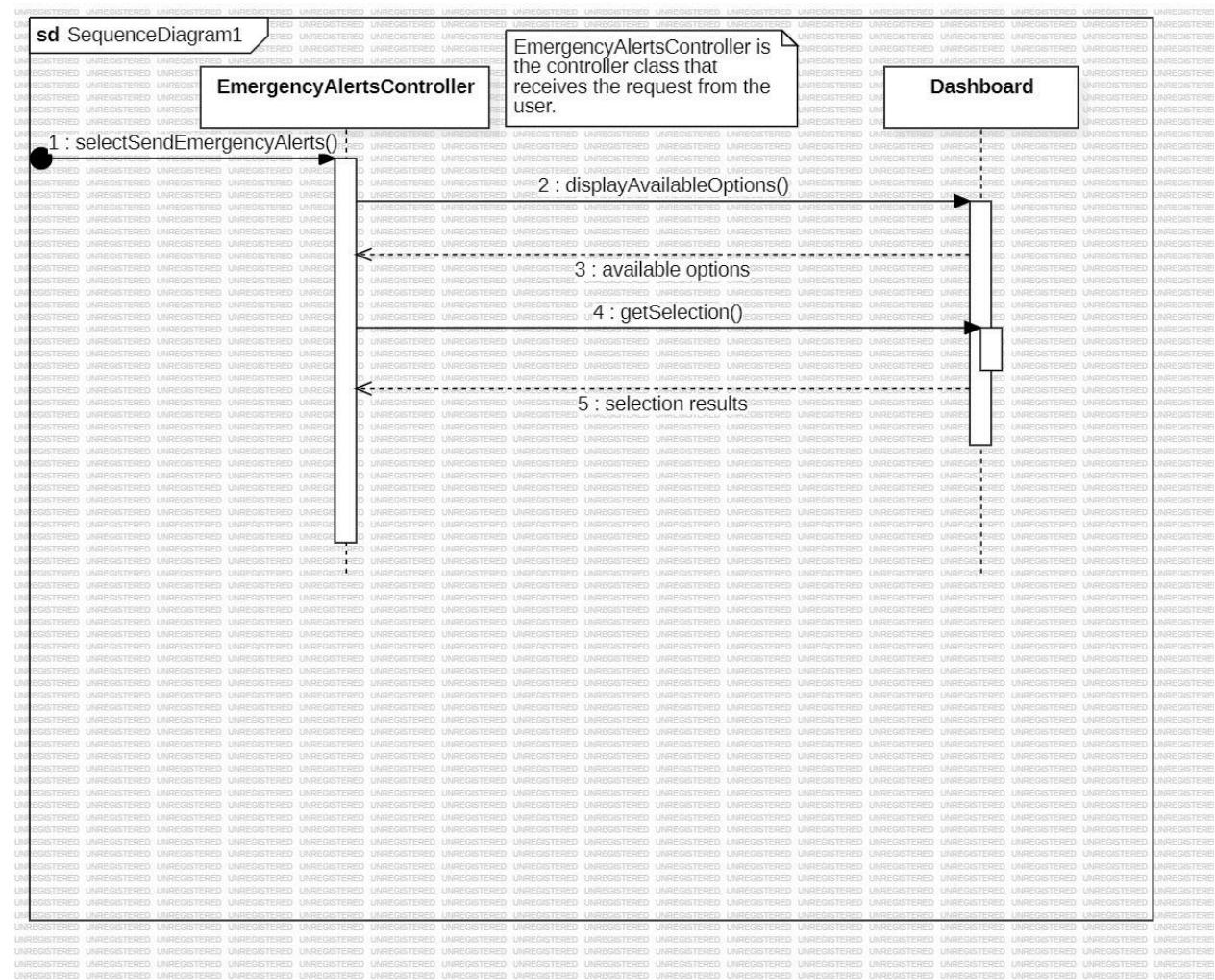


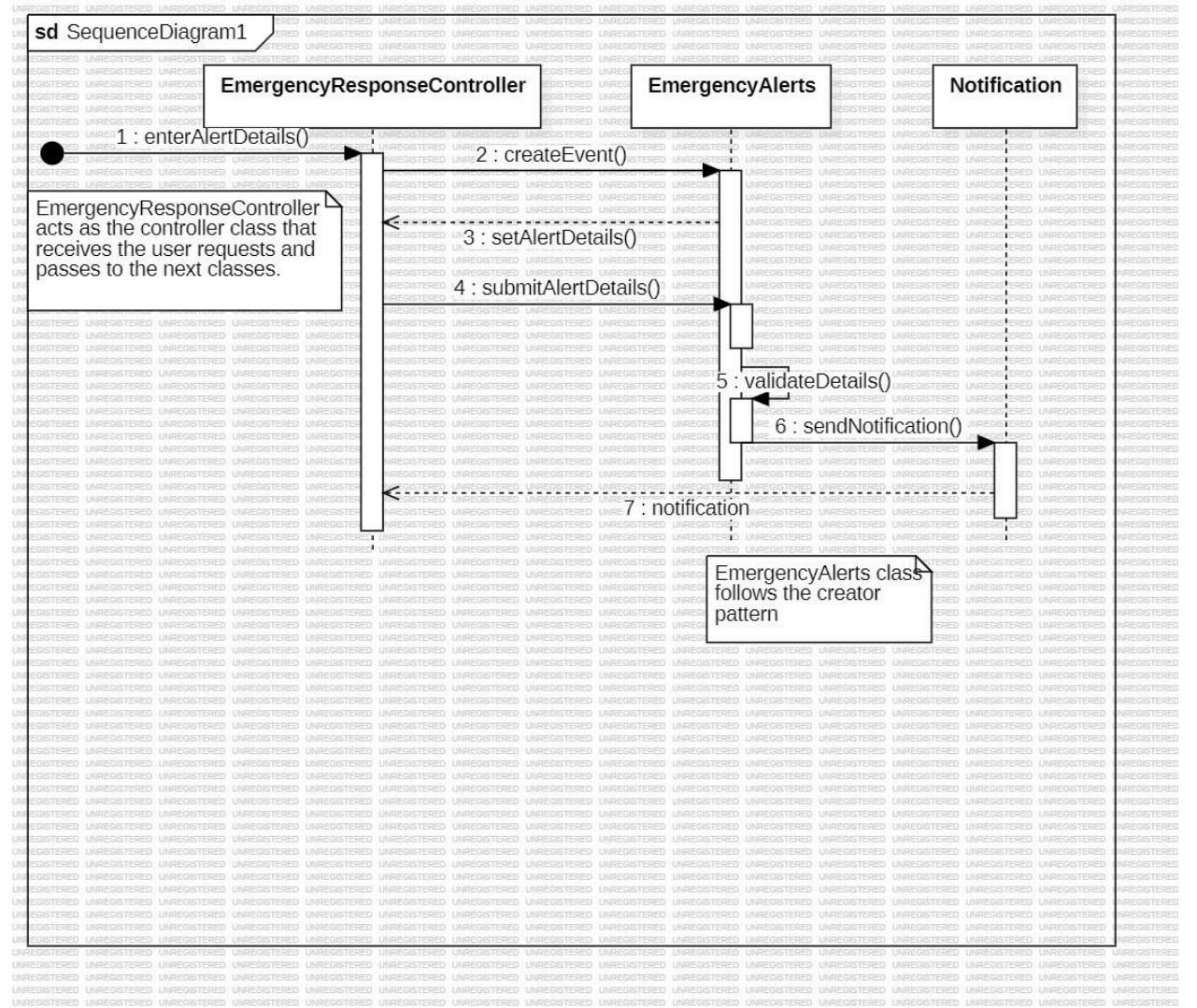
# Use Case 12: Send Emergency Alerts

## System Sequence Diagram:



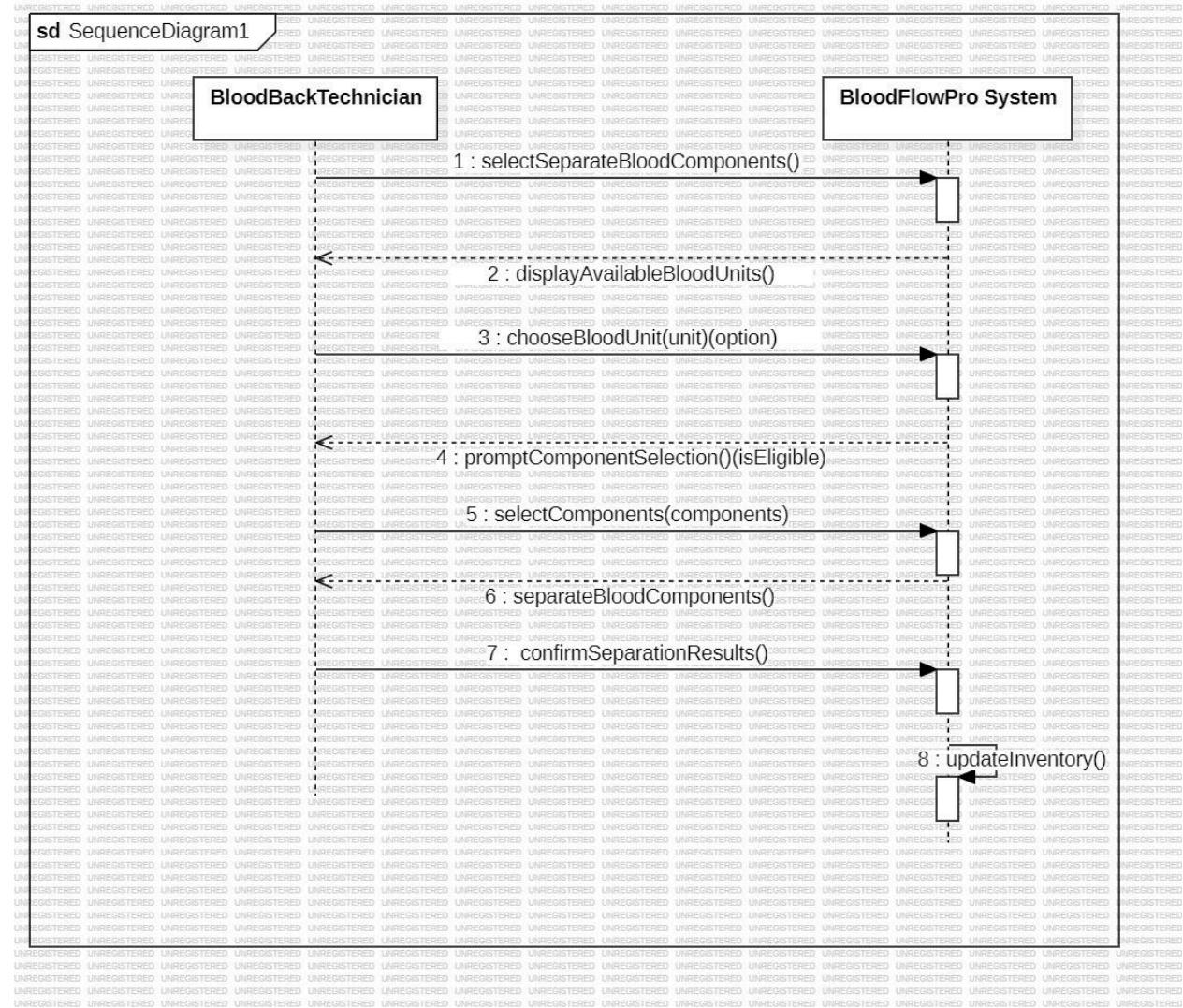
## Sequence Diagram:



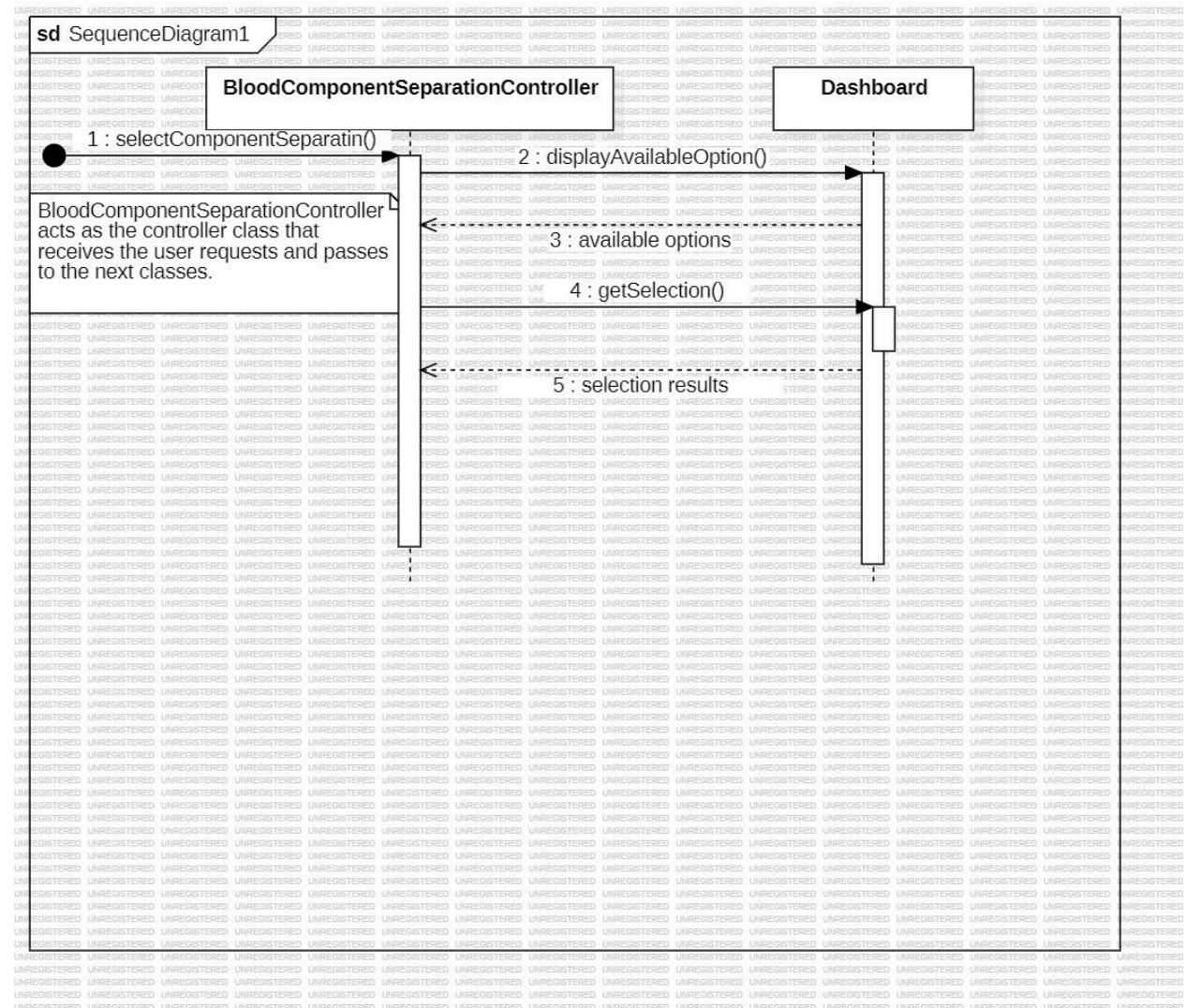


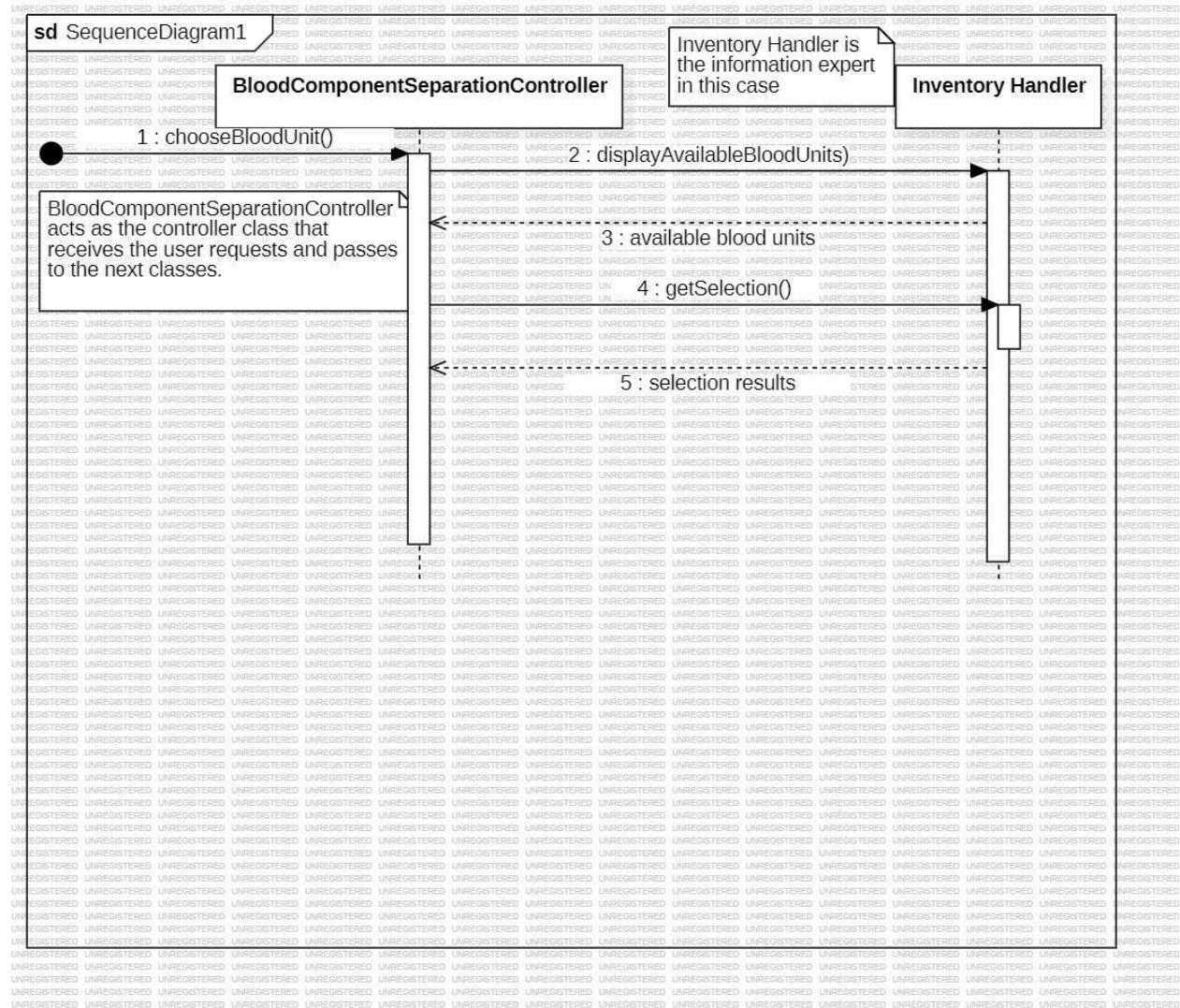
# Use Case 13: Separate Blood Components

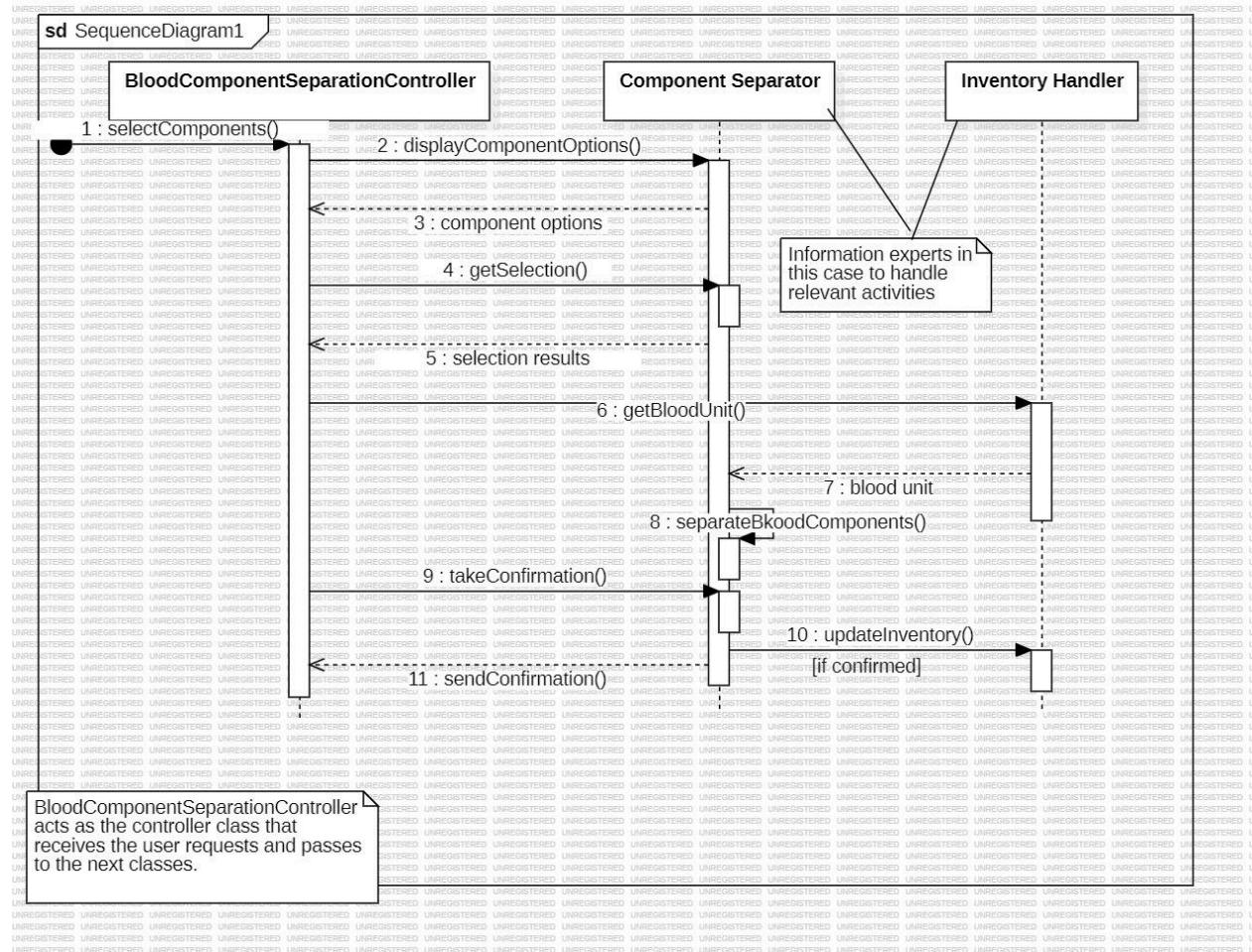
## System Sequence Diagram:



## Sequence Diagram:

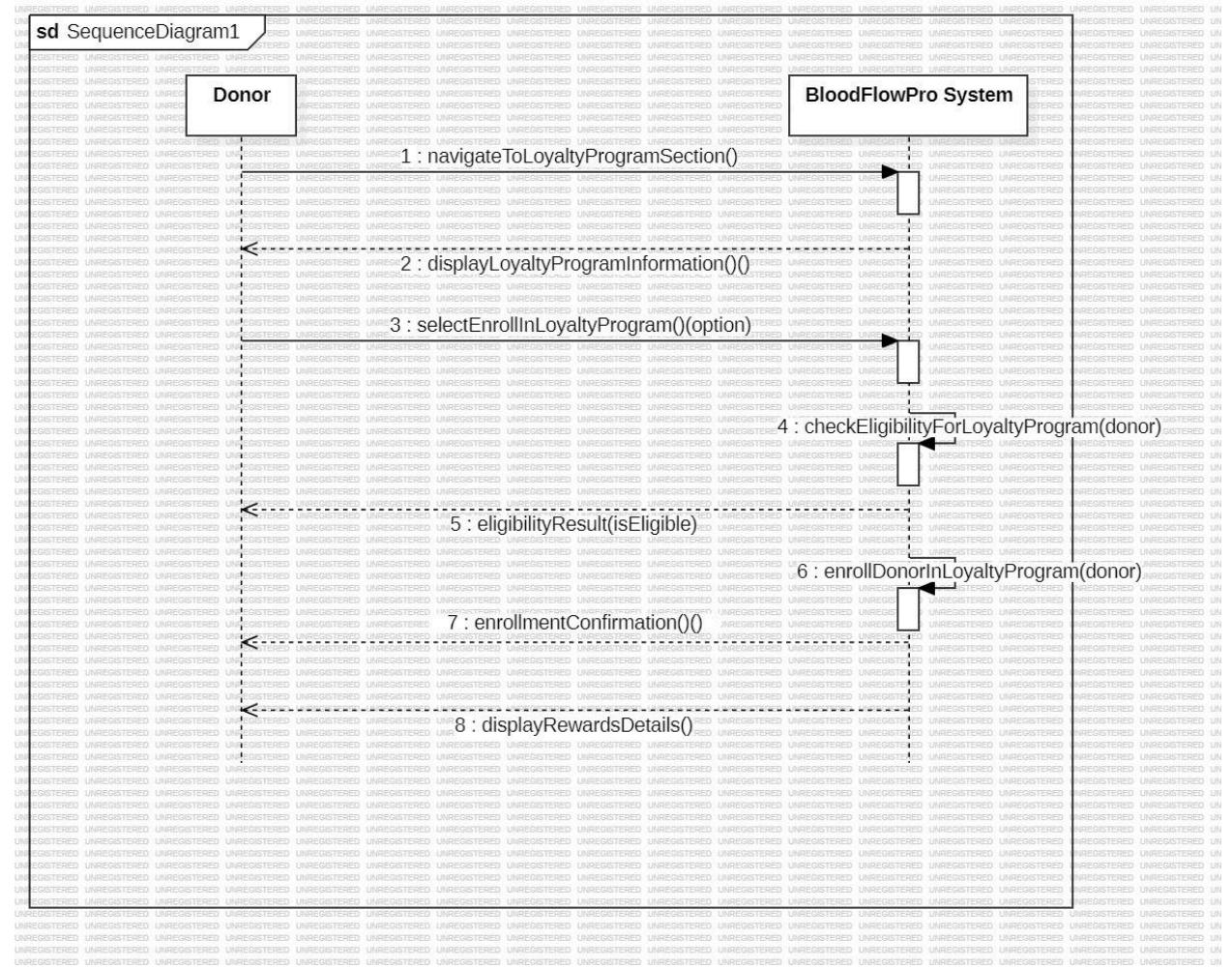




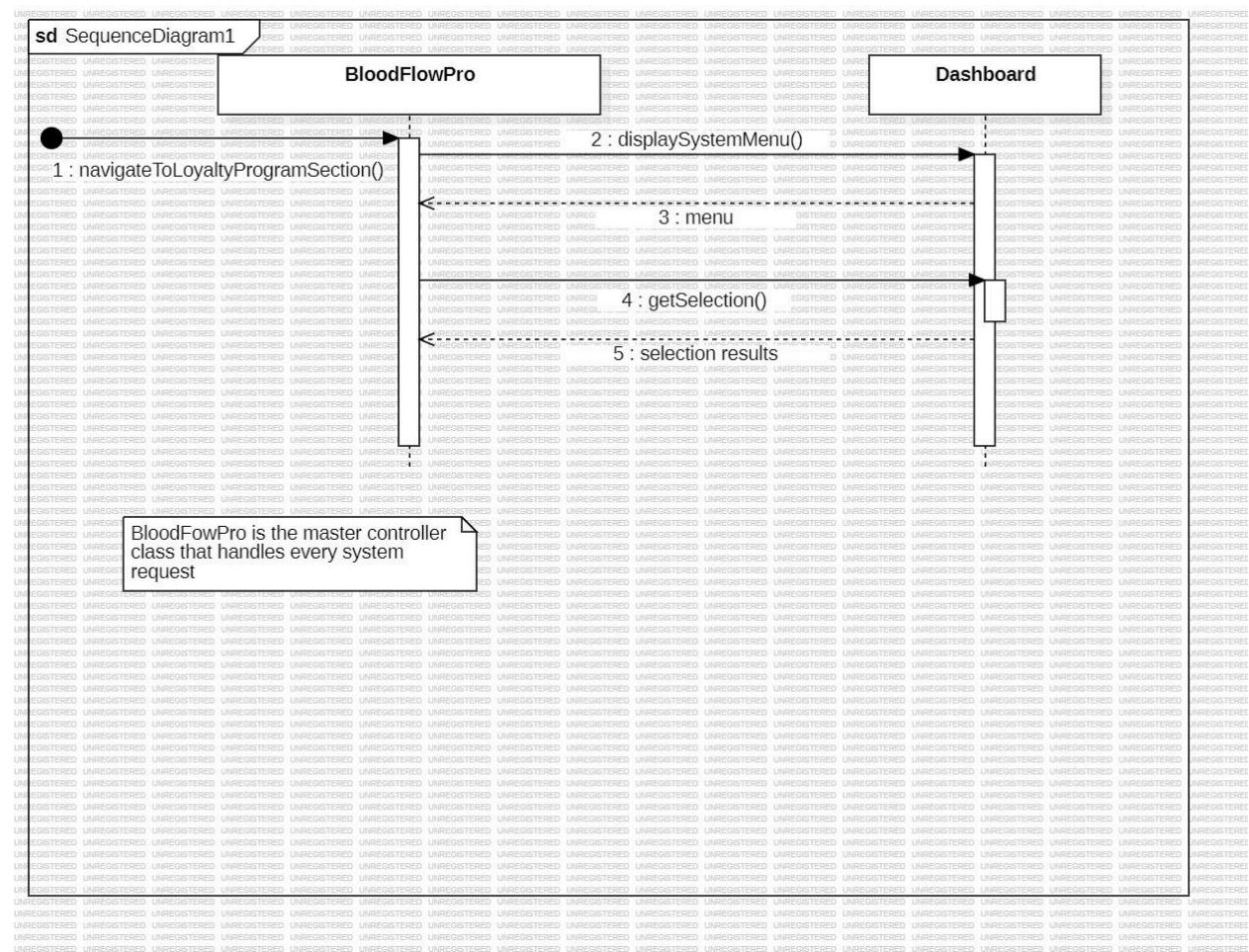


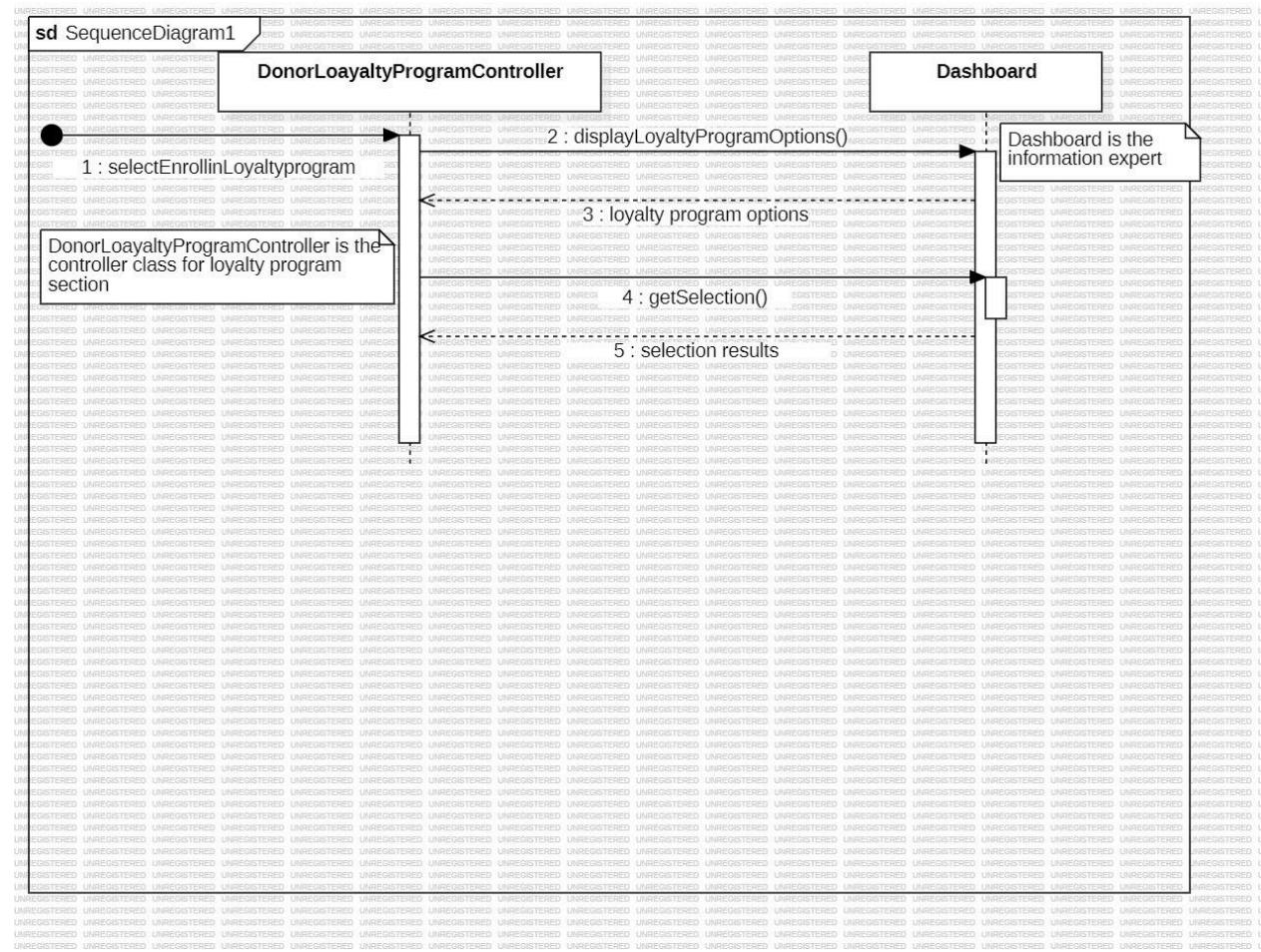
# Use Case 14: Make donor loyalty program

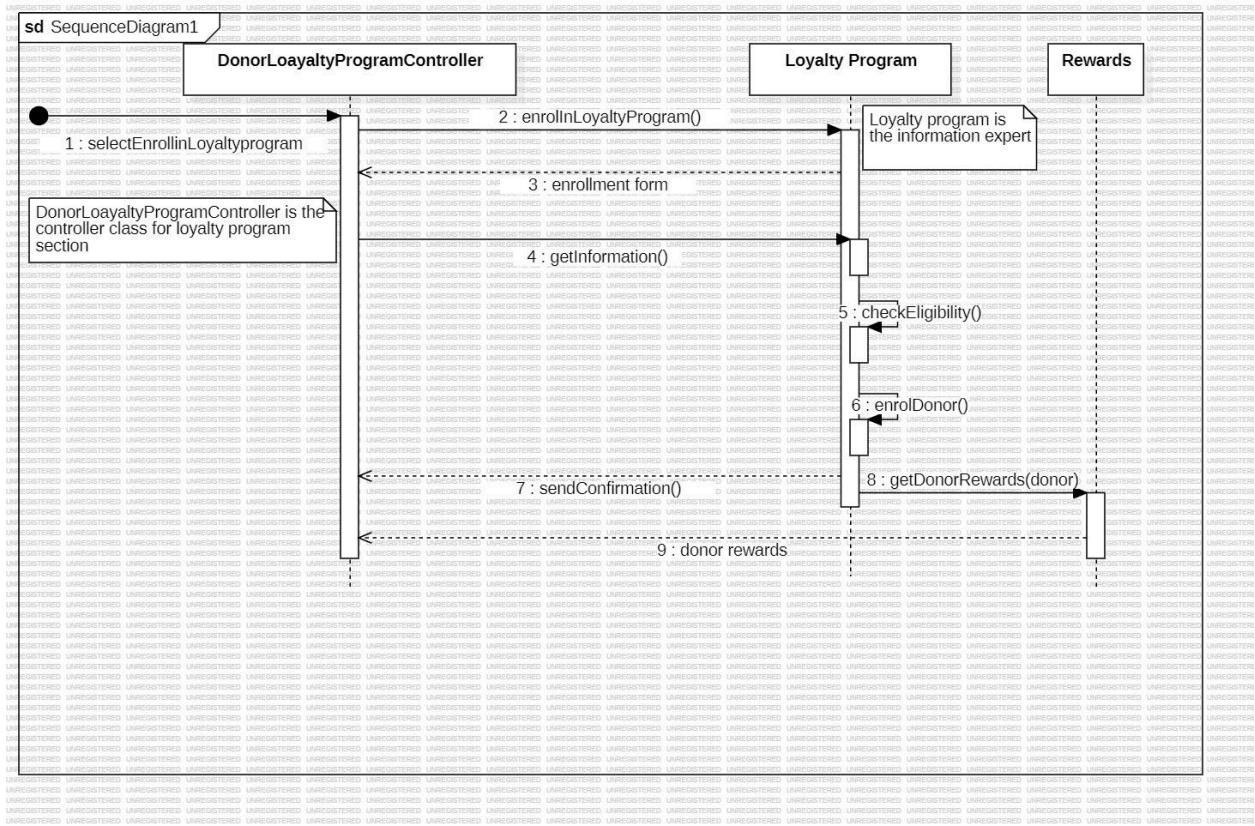
## System Sequence Diagram:



## Sequence Diagram:

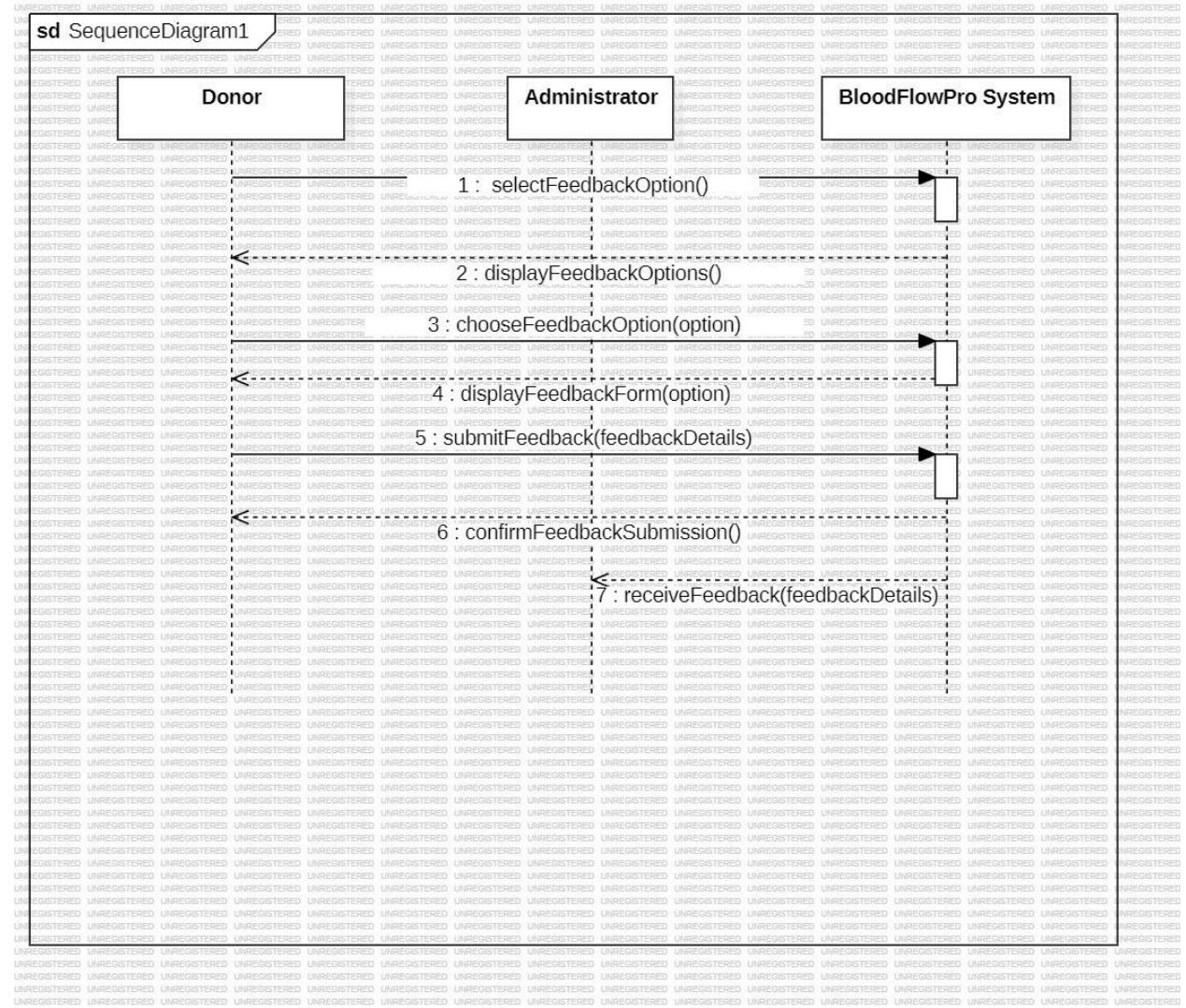




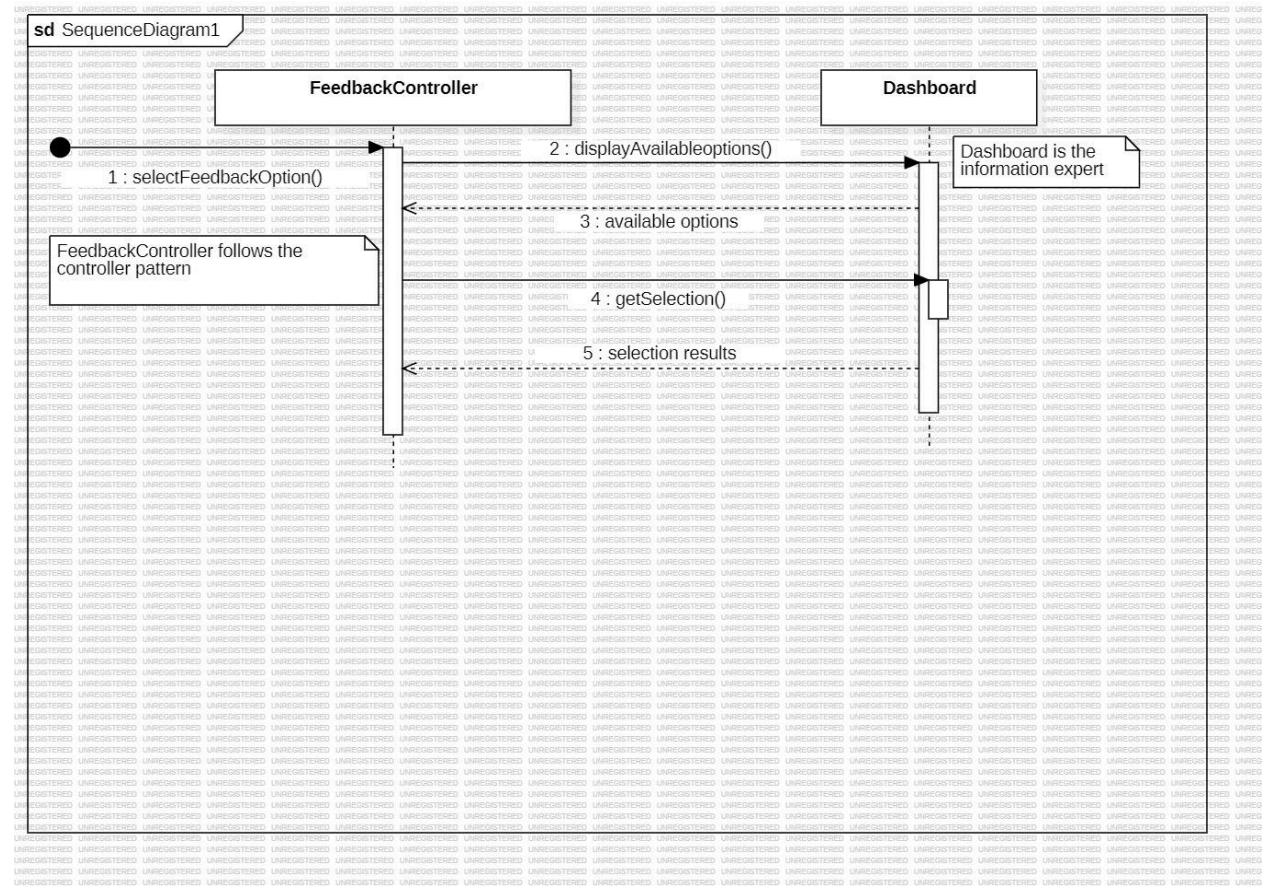


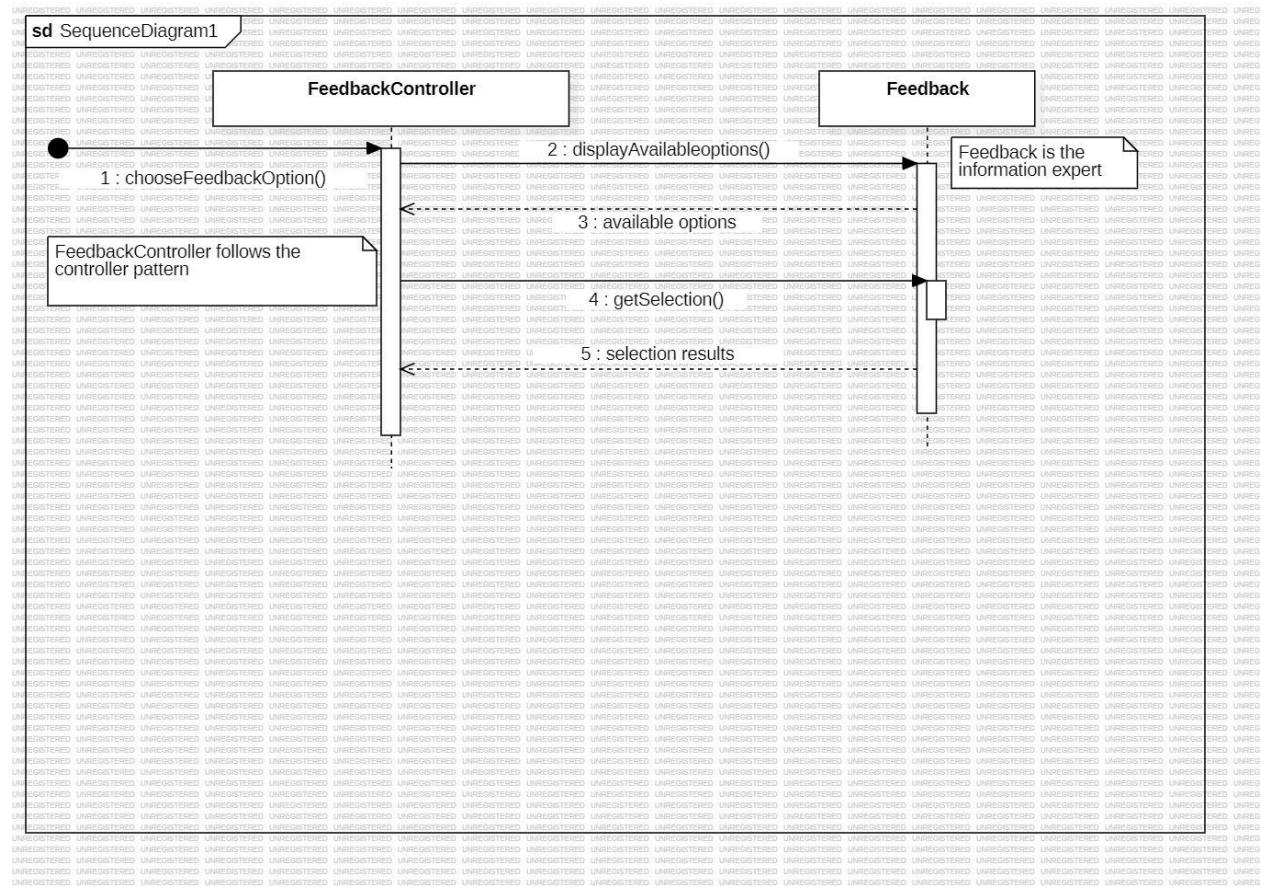
# Use Case 15: Get Feedback

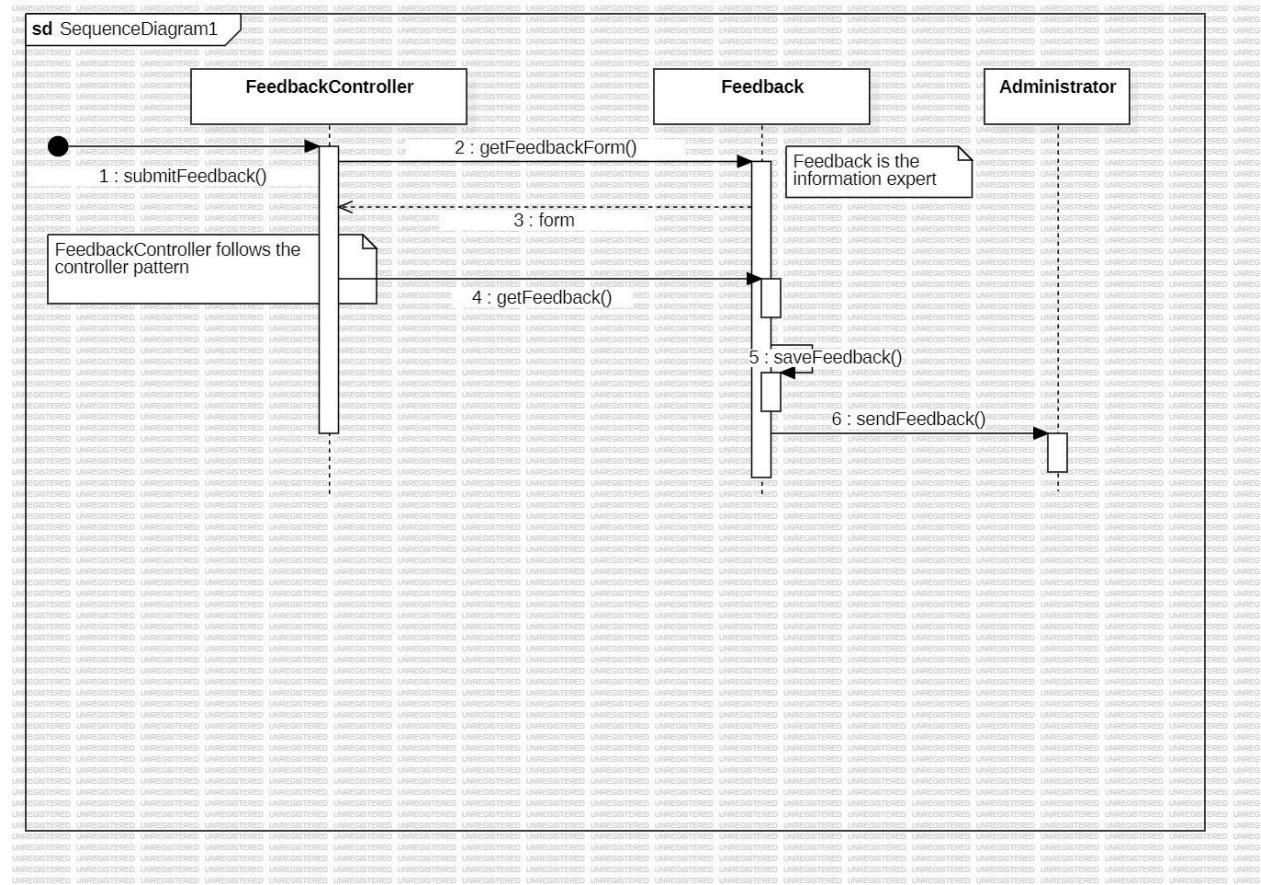
## System Sequence Diagram:



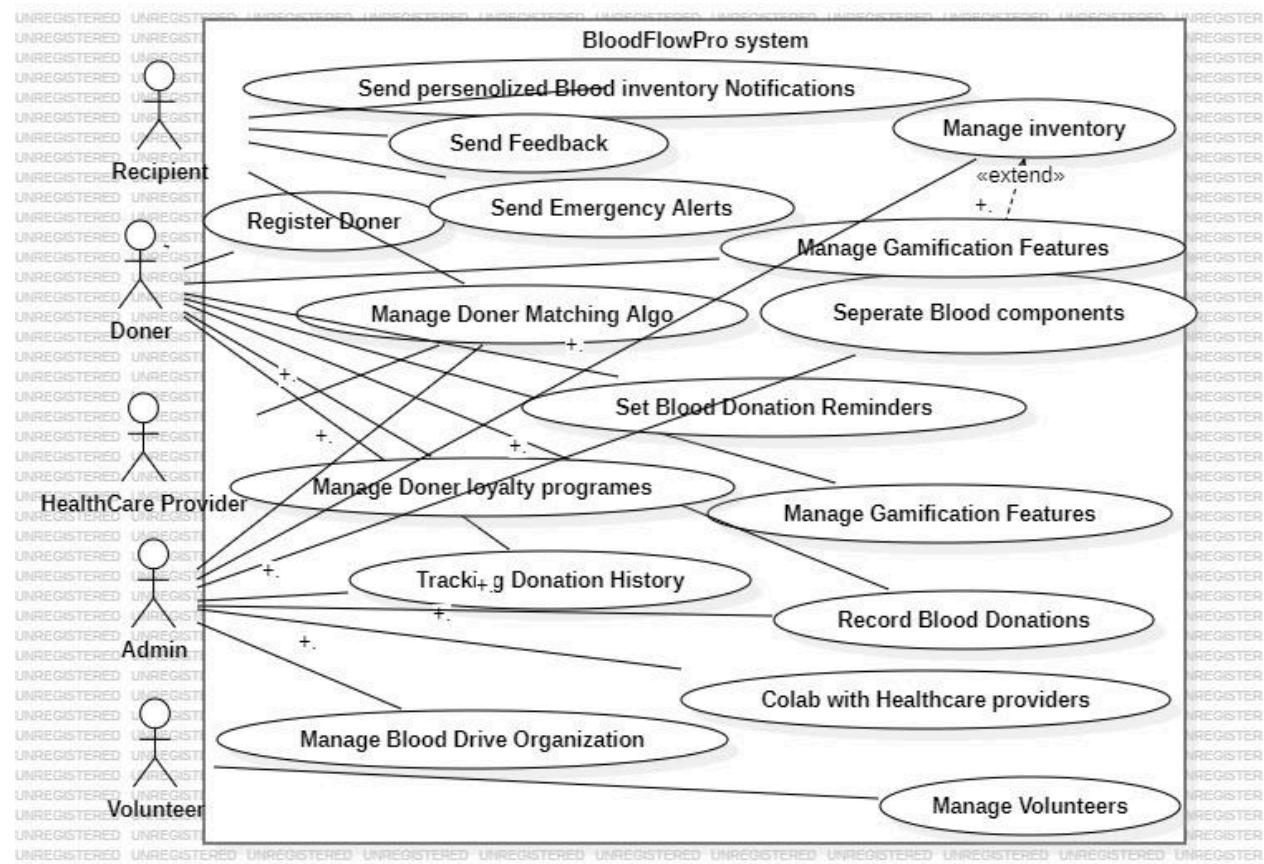
## Sequence Diagram:



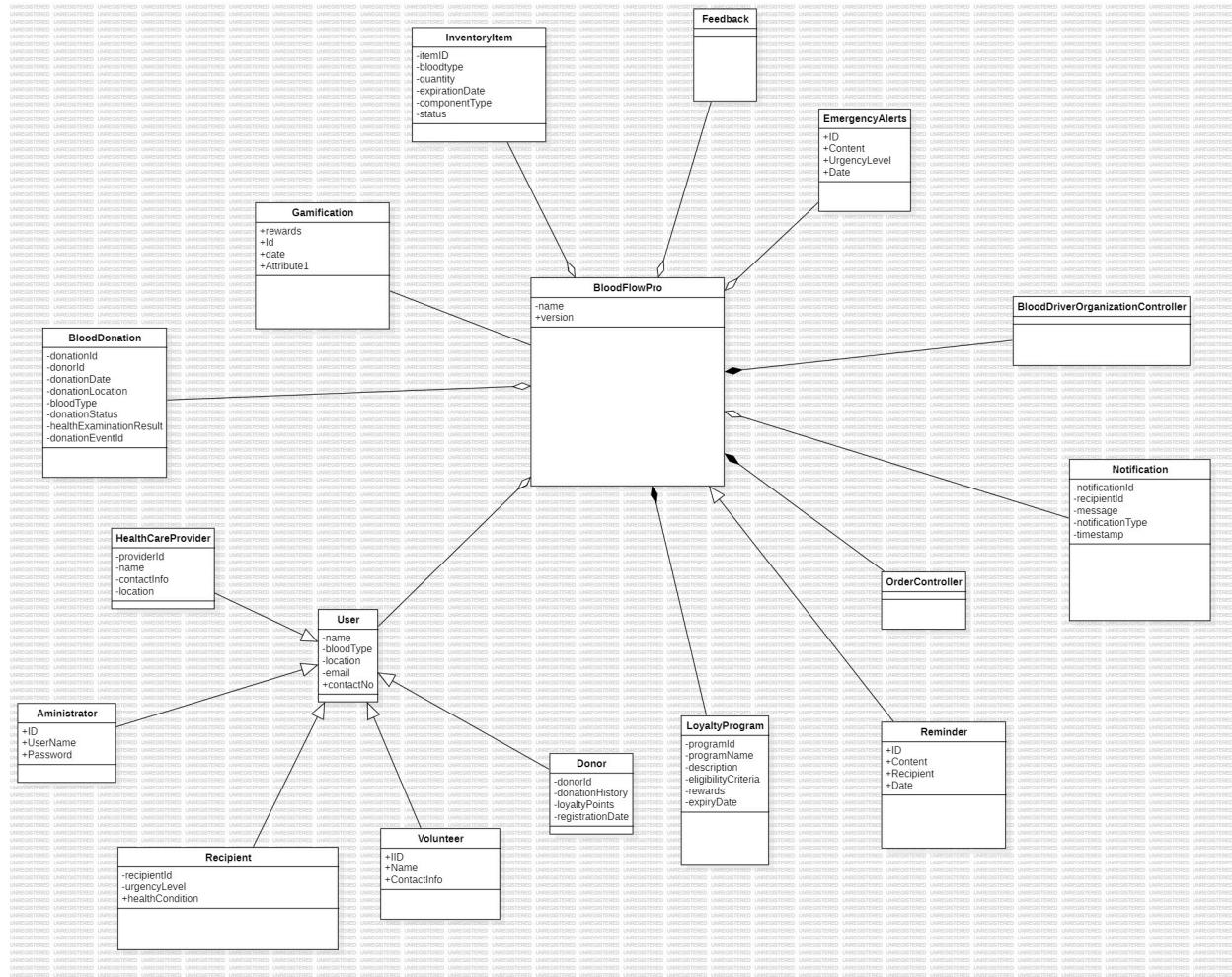




## Use Case Model:



**Domain Model:**



# Class Diagram:

