Blood Donation Management System (BDMS)
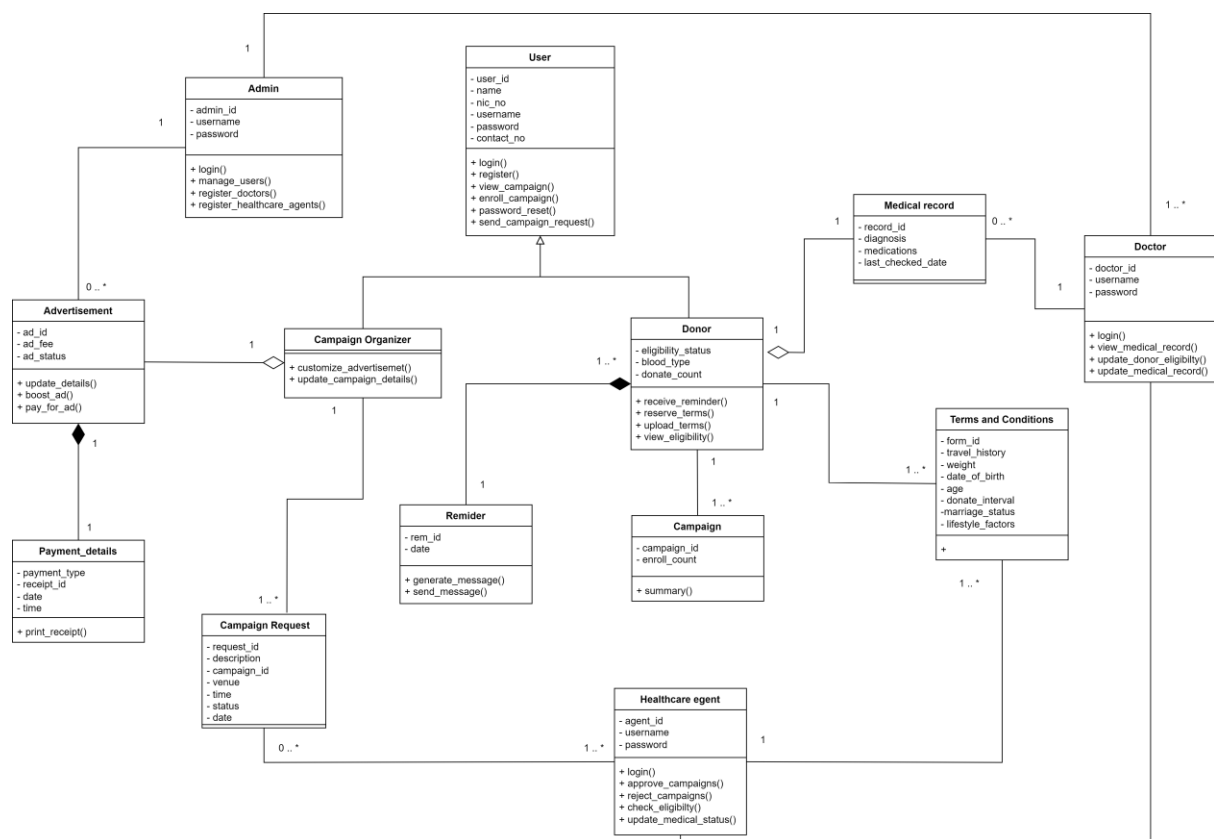
Database Systems – SE 02

Name: Suneth Hettiarachchi

Index Number: UGC0223025
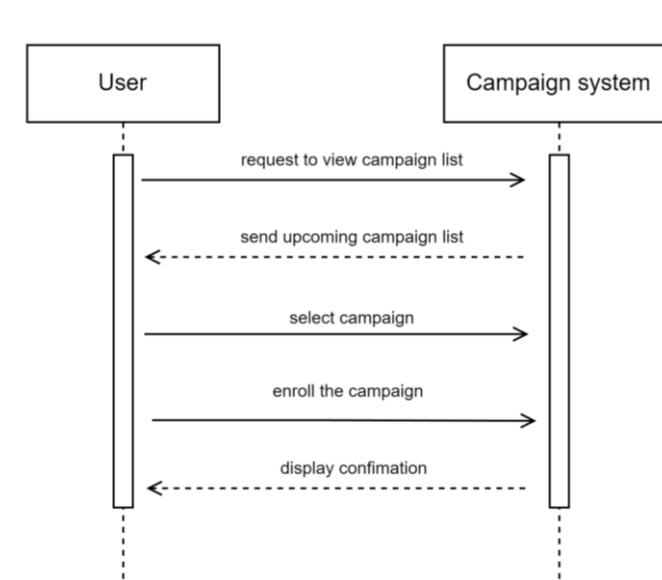
Class Diagram
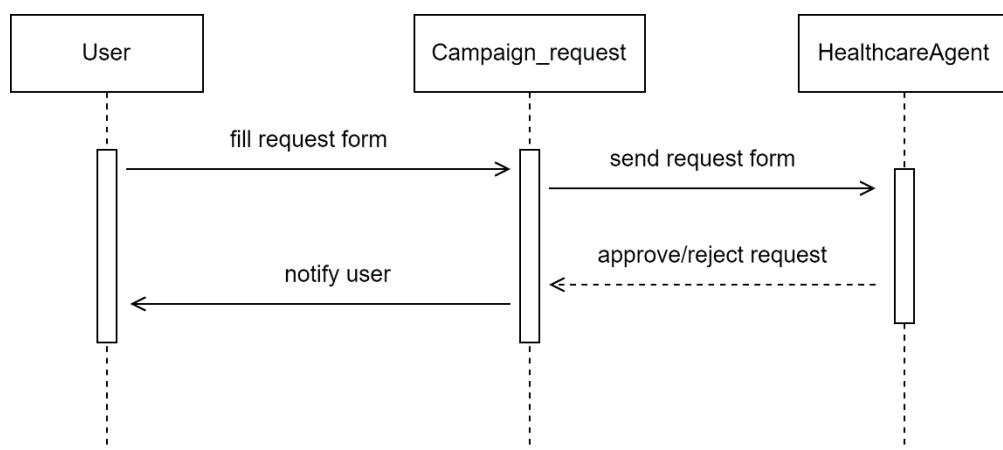
Admin
- admin_id
- username
- password

+ login()
+ manage_users()
+ register_doctors()
+ register_healthcare_agents()

User
- user_id
- name
- nic_no
- username
- password
- contact_no

+ login()
+ register()
+ view_campaign()
+ enroll_campaign()
+ password_reset()
+ send_campaign_request()

Medical record
- record_id
- diagnosis
- medications
- last_checked_date

Doctor
- doctor_id
- username
- password

+ login()
+ view_medical_record()
+ update_donor_eligibilty()
+ update_medical_record()

Advertisement
- ad_id
- ad_fee
- ad_status

+ update_details()
+ boost_ad()
+ pay_for_ad()

Campaign Organizer
+ customize_advertisemet()
+ update_campaign_details()

Donor
- eligibility_status
- blood_type
- donate_count

+ receive_reminder()
+ reserve_terms()
+ upload_terms()
+ view_eligibility()

Terms and Conditions
- form_id
- travel_history
- weight
- date_of_birth
- age
- donate_interval
- marriage_status
- lifestyle_factors

+

Payment_details
- payment_type
- receipt_id
- date
- time

+ print_receipt()

Remider
- rem_id
- date

+ generate_message()
+ send_message()

Campaign
- campaign_id
- enroll_count

+ summary()

Campaign Request
- request_id
- description
- campaign_id
- venue
- time
- status
- date

Healthcare egent
- agent_id
- username
- password

+ login()
+ approve_campaigns()
+ reject_campaigns()
+ check_eligibilty()
+ update_medical_status()

1   0 .. *   1   1 .. *   1 .. *   0 .. *   0 .. *   1   1   1   1 .. *   1   1   1 .. *   1 .. *   1 .. *   1   1   1   1   1 .. *   0 .. *   1

Sequence diagrams

1. View and Enroll In Blood donation Campaign
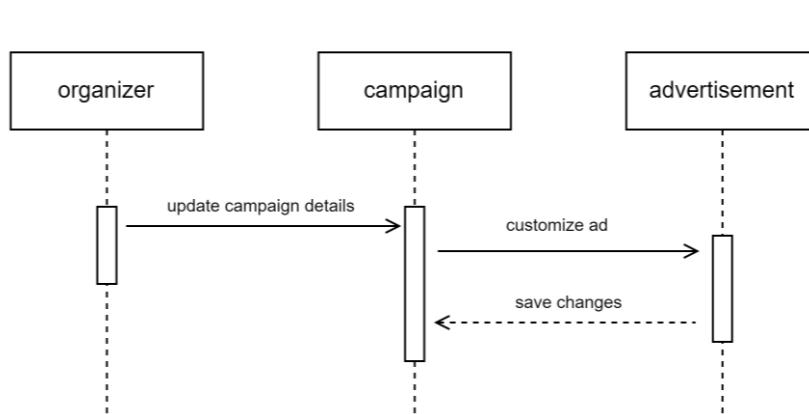

2. Request to Organize a Campaign
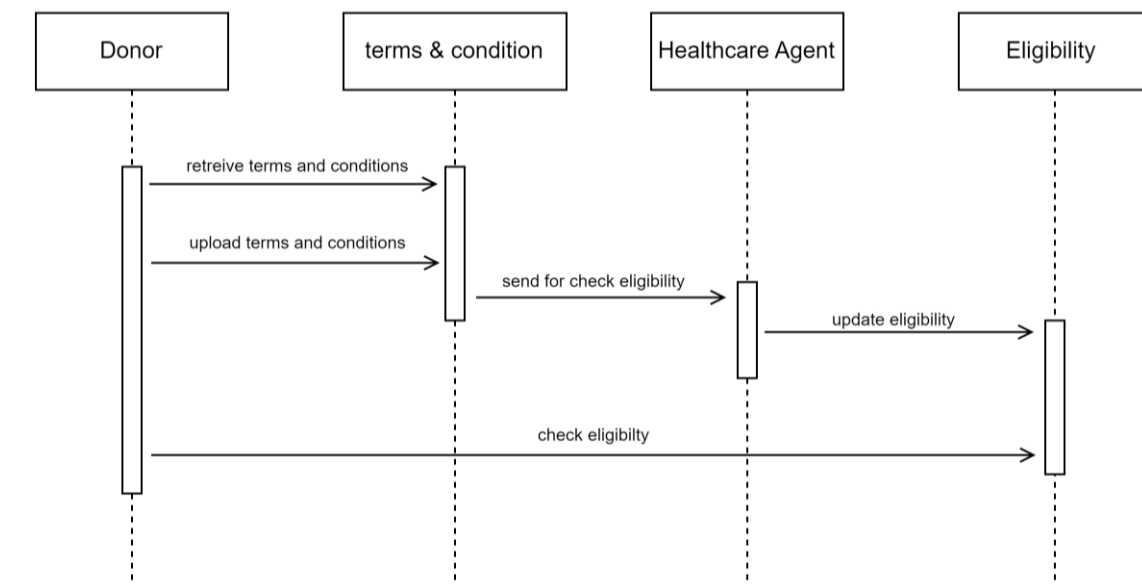
3. Update Campaign details and Customize Advertisement
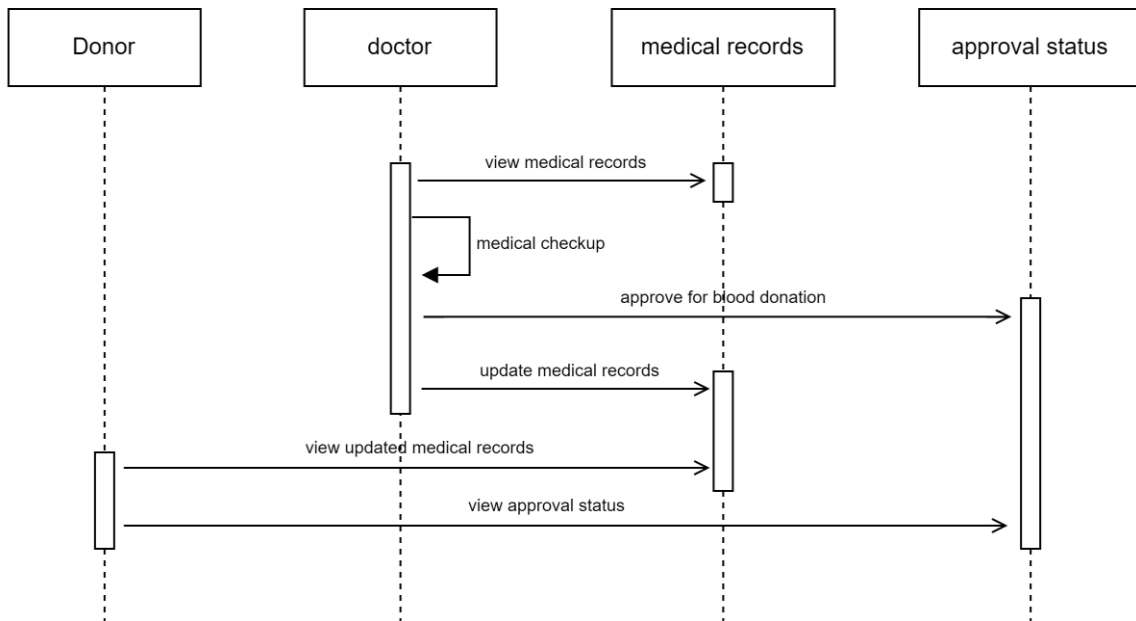

4. Retrieve Terms and Conditions and Check Eligibility
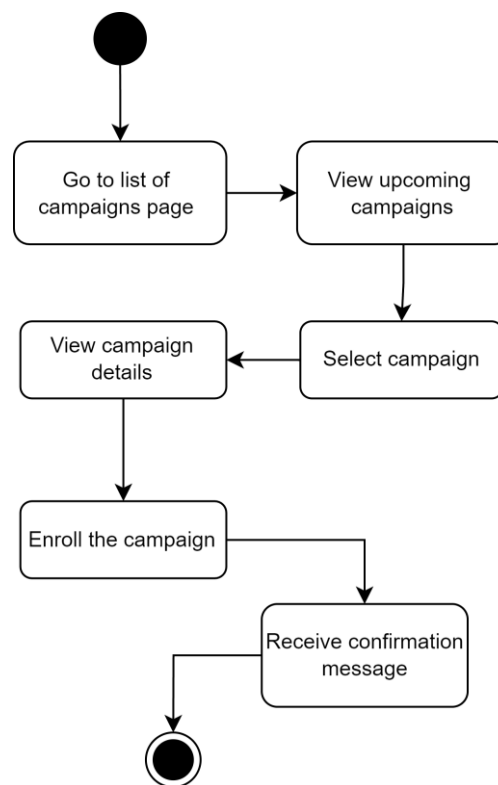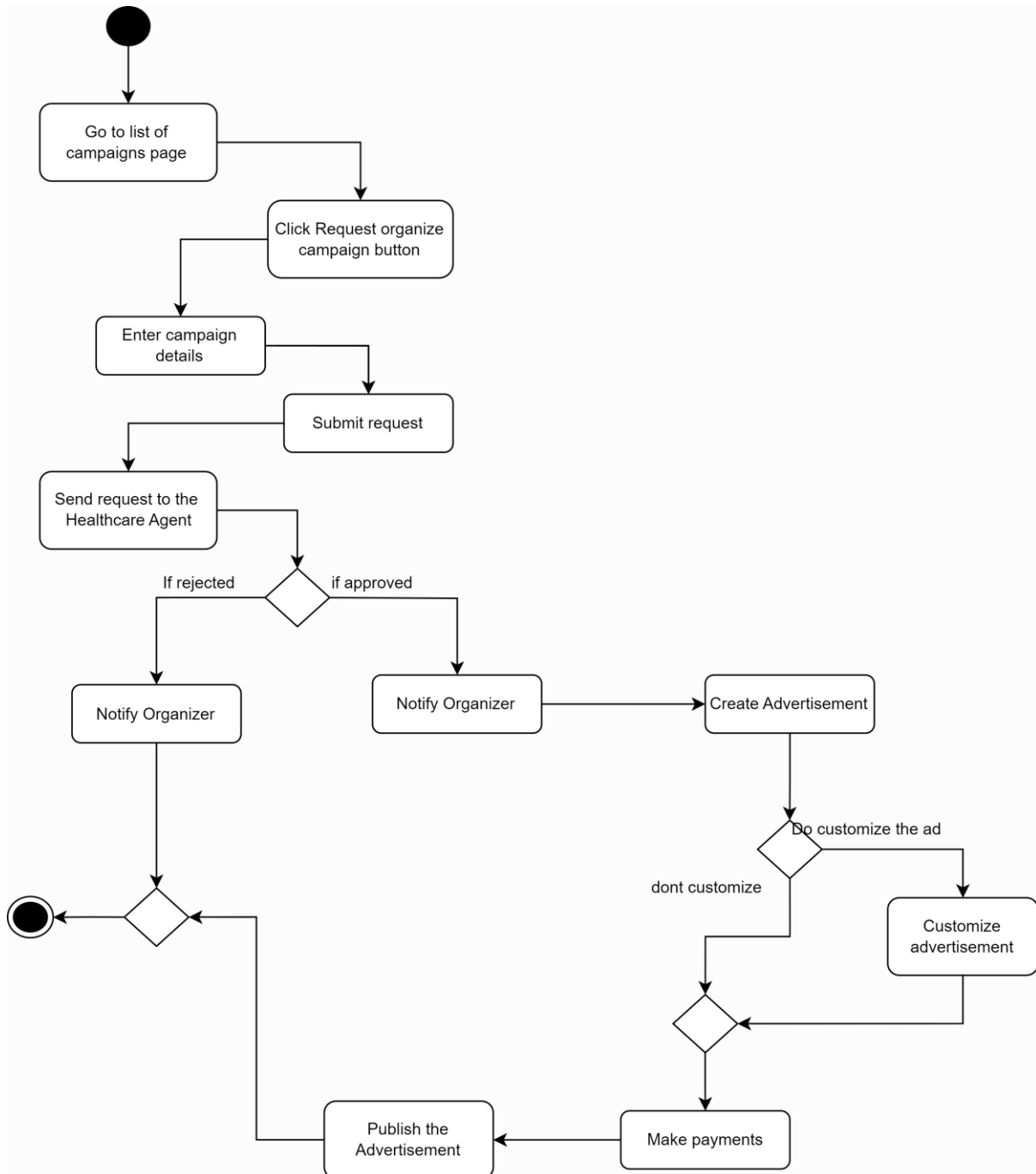
5. View and Update medical record by doctor after medical checkup

Activity Diagrams

1. View and enroll upcoming campaigns

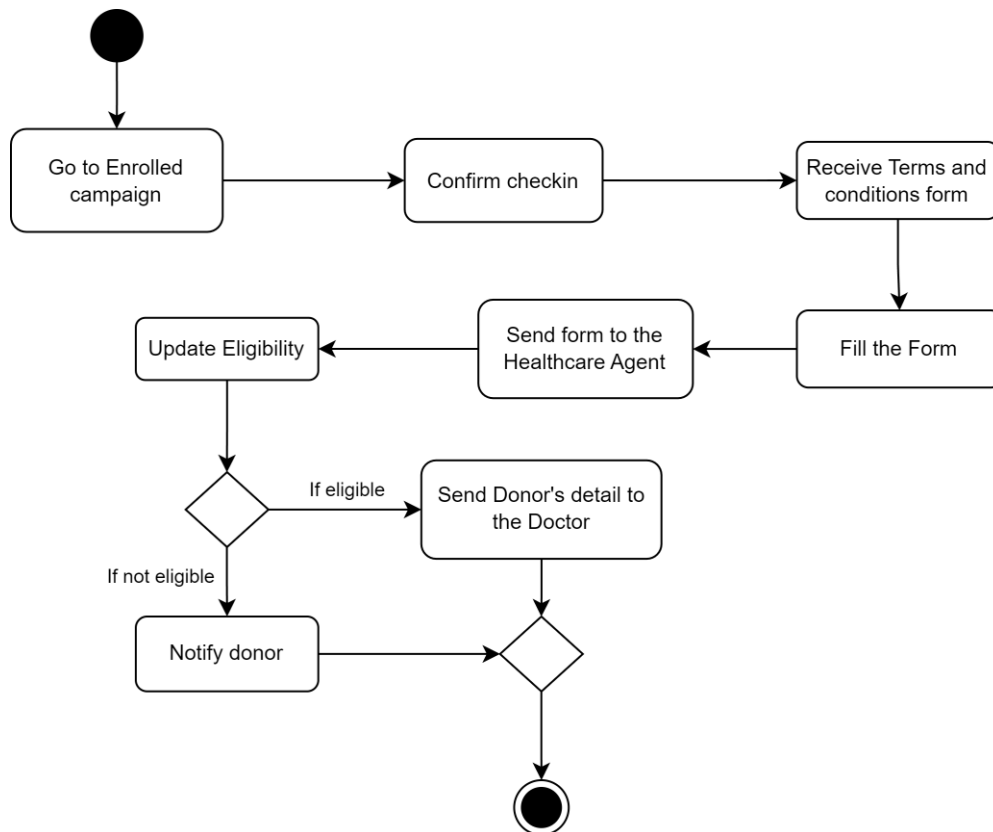2. Request to Organize a campaign and Customize Advertisement

3. Retrieve Terms and Condition and check Eligibility by Healthcare Agents

4. View and Update medical record by doctor after medical checkup