Mid Semester Examination (6th sem), 2022
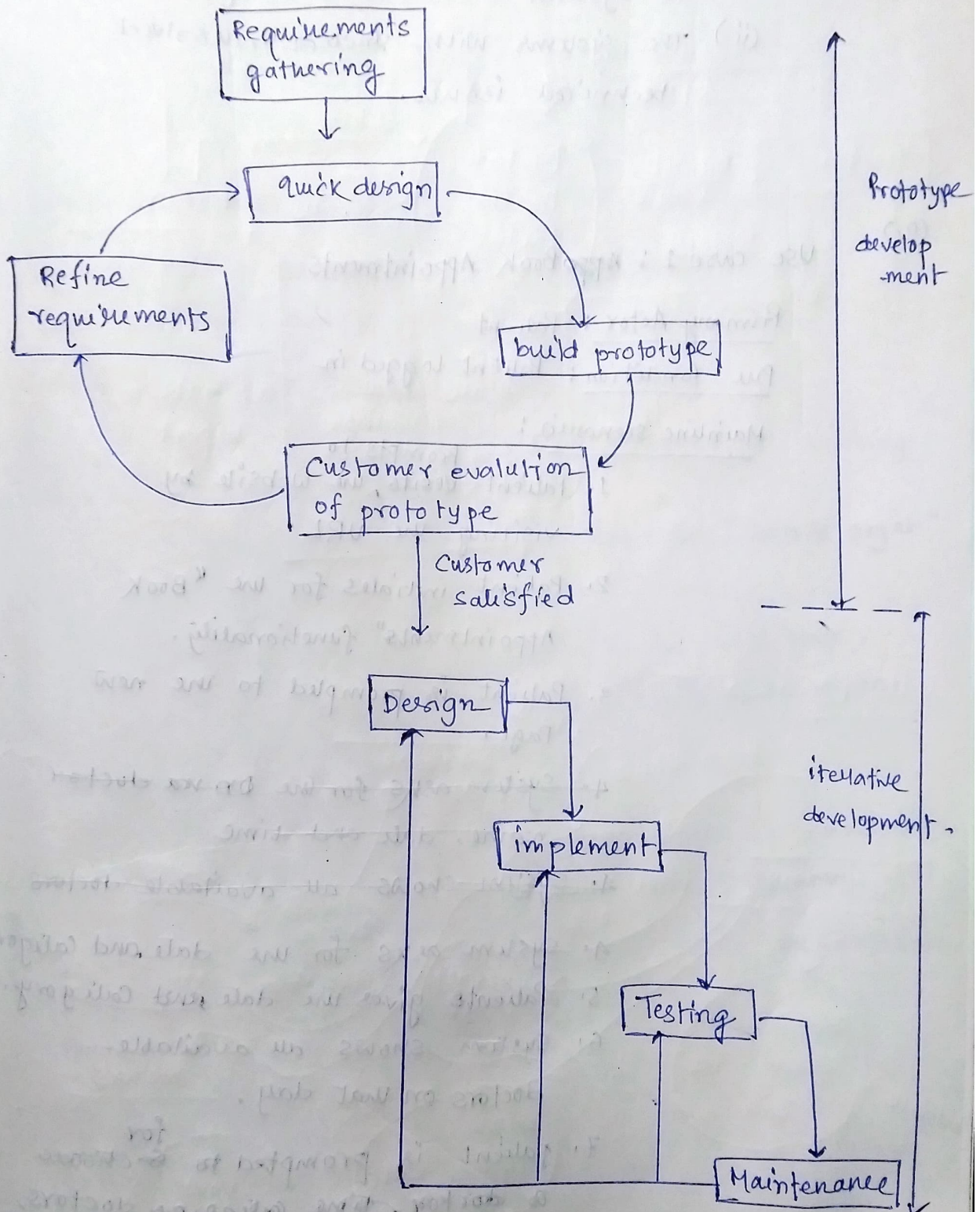
⟶ Subject Name :⟶ Software Engineering.

⟶ Subject Code :⟶ IT 3203.

⟶ Date of Examination :⟶ 09.03.2022.

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⟶ Number of sheets uploaded :⟶ 4

(1.)

Prototyping model schematic diagram :→

Requirements gathering

↓

quick design

Refine requirements

build prototype

Customer evaluation of prototype

Customer satisfied

↓

Design

implement

Testing

Maintenance

Prototype development

iterative development

N The conditions for which this model proves to be more beneficial ~~are~~ over the iterative water-fall model are ____

(i) The systems with unclear requirements.
(ii) The systems with ~~unclear~~ unresolved technical issues.

(2.)

Use case 1 : ~~Appo~~ Book Appointments

Primary Actor : Patient

Pre Condition : Patient logged in

Mainline scenario :

1. Patient ~~desire~~ prompts to the website by visiting the URL.

2. Patient initiates for the "Book Appointments" functionality.

3. Patient is prompted to the new page.

4. ~~System asks for the DD na doctor name, date and time~~

4. ~~System shows all available doctors~~

4. System asks for the date and category.

5. Patient gives the date and category.

6. System shows all available doctors on that day.

7. patient is prompted ~~to~~ for ~~choose~~ ~~a doctor the category~~ doctors, ~~its~~ name and location.

8. System registers the patient in the database with all the details.

9. System sends an email stating the confirmation of the appointment.

Alternate scenario :-

    6(a). No doctors available on that day.

        6(a)1. System shows the message stating that no doctors are available and gives him to choose another day.

Use Case 2 : Donate organs

Primary Actor : Donators
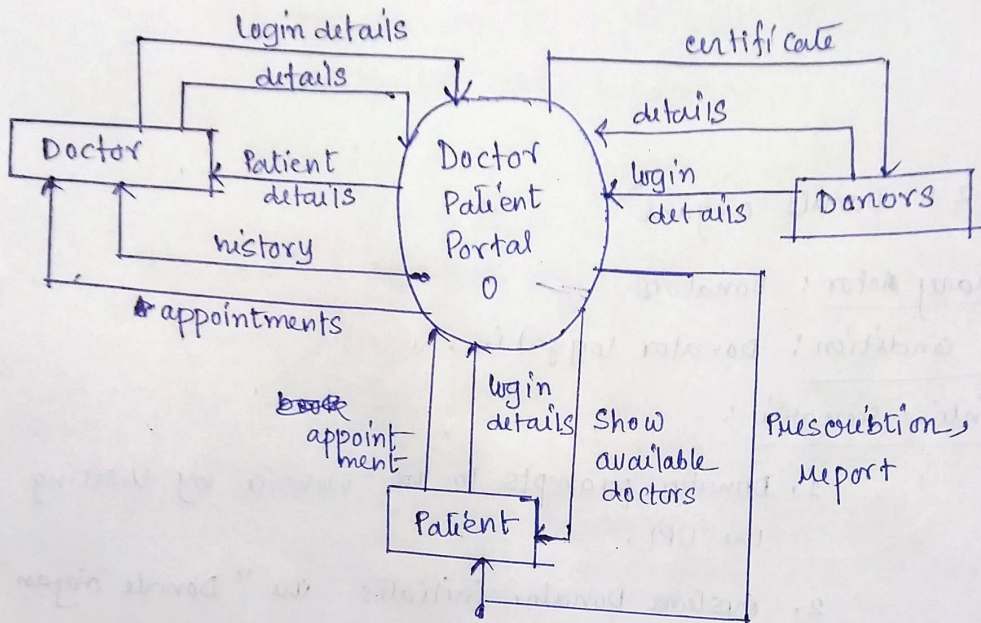
Pre condition : Donator logged in.

Mainline Scenario :

1. Donator prompts to the website by visiting the URL.

2. System Donator initiates the "Donate organ" functionality.

3. Donator is prompted to the new page.

4. System asks for the category of the organ.

5. Donator chooses the category.

6. System asks toof

6. Donator is prompted to fill for name, age, location, Blood group, Contact no, email id.

7. System registers the donor in the database with all the details.

Alternate scenario :

(8.) Data Flow Diagram : →
——— X ———

level 0 : →

Login details
details

Doctor ← Patient details
history
→ appointments

Doctor Patient Portal 0

certificate
details
← login details

Donors

book appointment

login details Show available doctors

Prescription, report

Patient

level 1 : →

login details   details
Database

Appointments

Authenticate 0.1

details

donate Organ
donation 0.2

certificate

Show appointments 0.4

details

generate report 0.3

book appointment 0.5

doctors

Show doctors 0.6

appointments

report

appointment

doctors .