

What are the benefits and importance of following a staged life cycle?

- Simple and easy to understand and follow
- It is easy to manage due to the rigidity of the model – each phase has specific deliverables and a review process.
- Phases are processed and completed one at a time. Phases do not overlap.

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- b) Integration Testing
- c) System Testing
- d) Acceptance Testing

Pros and Cons of the V-Model

Pros	Cons
This is a highly disciplined model and Phases are completed one at a time.	High risk and uncertainty.
Simple and easy to understand and use.	Not a good model for complex and object-oriented projects.
Easy to manage due to the rigidity of the model	Poor model for long and ongoing projects.
each phase has specific deliverables and a review process.	Not suitable for the projects where requirements are at a moderate to high risk of changing.
Works well for smaller projects where requirements are very well understood.	No working software is produced until late during the life cycle.

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Pros	Cons
Increased user involvement in the product even before implementation.	Risk of insufficient requirement analysis owing to too much dependency on prototype.
Since a working model of the system is displayed, the users get a better understanding of the system being developed.	Users may get confused in the prototypes and actual systems.
Reduces time and cost as the defects can be detected much earlier.	Practically, this methodology may increase the complexity of the system as scope of the system may expand beyond original plans.
Quicker user feedback is available leading to better solutions.	Developers may try to reuse the existing prototypes to build the actual system, even when it's not technically feasible.
Missing functionality can be identified easily.	The effort invested in building prototypes may be too much if not monitored properly.

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5) Spiral Model

FUNCTIONAL AND NON-FUNCTIONAL REQUIREMENTS**Functional Requirements****User**

- View doctors
- View hospital details
- View services

Member

- Login
- Search availability doctors/dates
- Make payment
- View Doctors
- View Hospitals

Operator

- Login
- Add doctor details
- Add appointment details
- Add hospital details
- Edit Doctor details
- Edit Hospital details
- View reports

Hospital Operator

- Make appointment
- Make payments

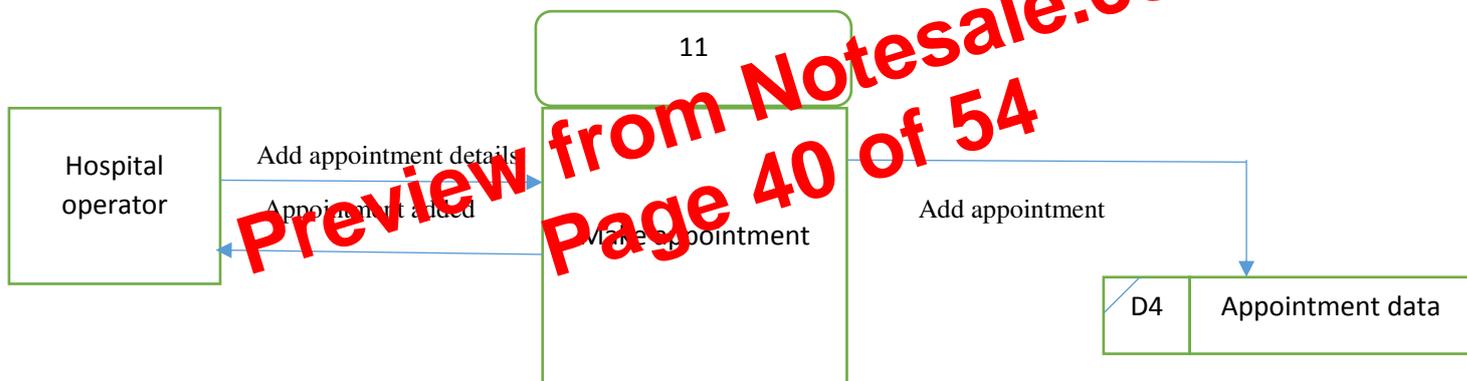
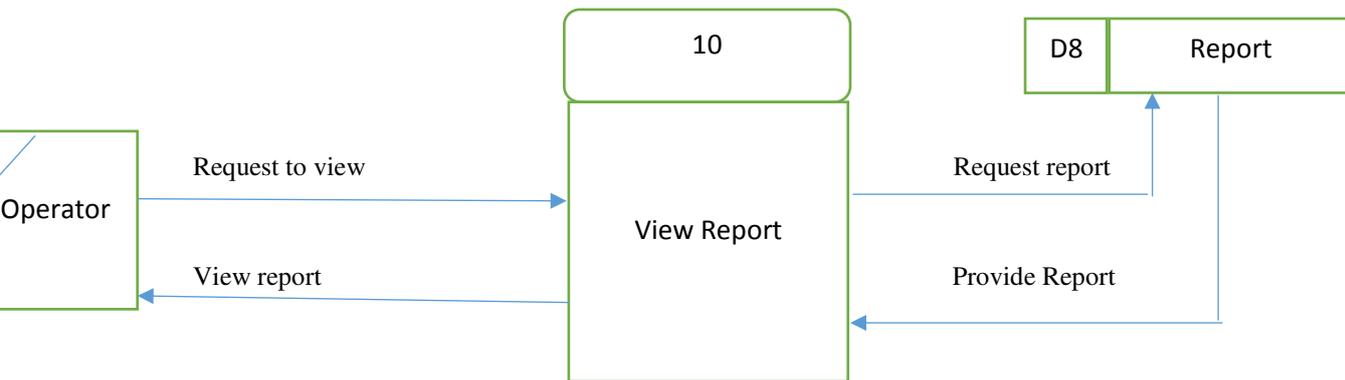
Administrator

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Task 6

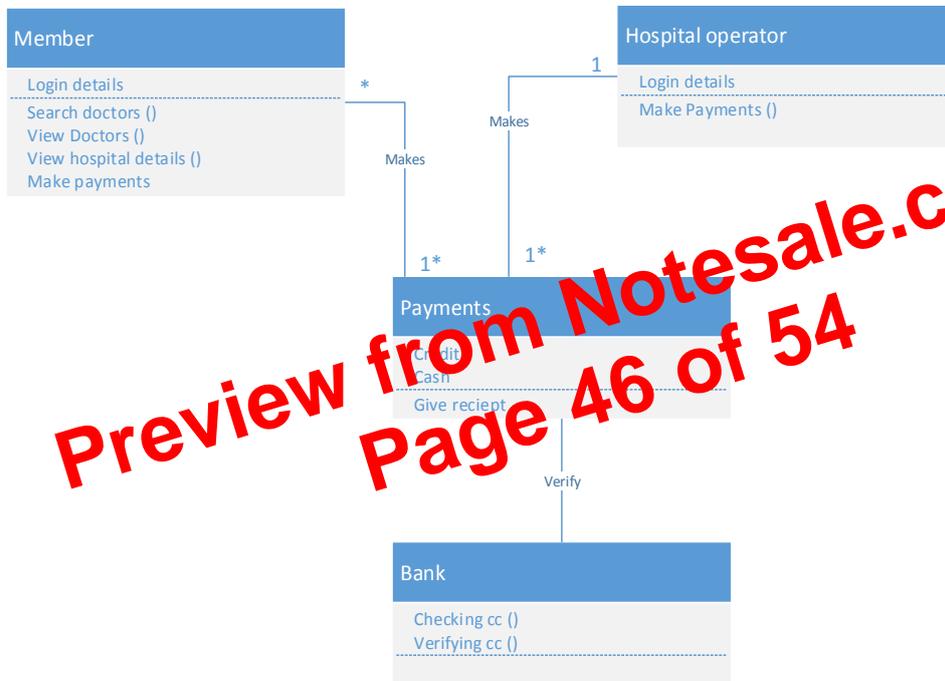
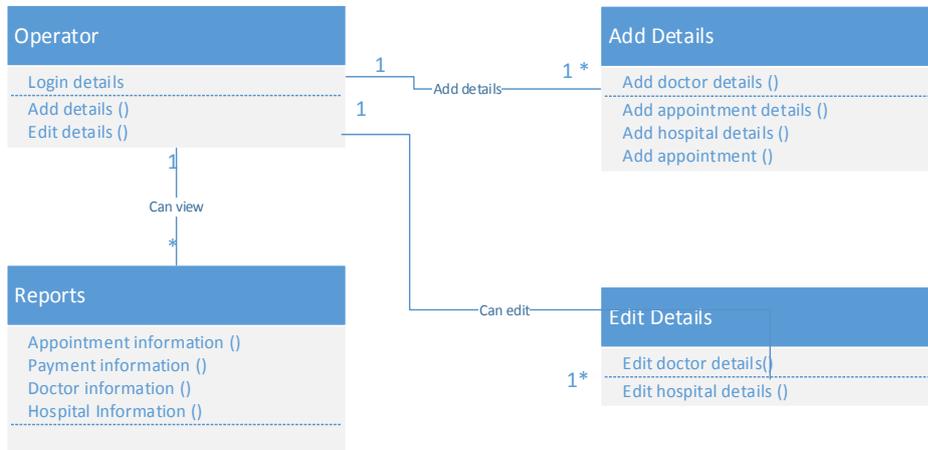
- 1) CONTEXT DIAGRAM
- 2) LEVEL 0 DFD
- 3) LEVEL 1 DFD
- 4) USE CASE DIAGRAM
- 5) CLASS DIAGRAM

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CLASS DIAGRAM



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Following are the functional user requirements.

User

- View doctors
- View hospital details
- View services

Member

- Login
- Search availability doctors/dates
- Make payment
- View Doctors
- View Hospitals

Operator

- Login
- Add doctor details
- Add appointment details
- Add hospital details
- Edit Doctor details
- Edit Hospital details
- View reports

Hospital Operator

- Make appointment
- Make payments

Administrator

- Create users
- Edit user information

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