**SOFTWARE DEVELOPMENT LIFECYCLE**

**PRACTICAL EXAM**

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**ESSENTIAL INFORMATION OF THE CLINICAL MANAGEMENT SYSTEM:**

- Manage the health service and clinical information

- 4 key features: Individual care management, Patient monitoring, Managing involuntary detention, Admin reporting

- 4 types of user: Clinical staff, Admin, System admin and records admin, Health service management

- Team size: 7 Developers, 3 QAs and a Team leader.

**ANSWER THE QUESTION**

1. Question 1:

- 6 functional requirements (What the system do)

* For Administrators:
  + The system only allows the administrators to create, remove and update the information of patient.
  + The report or analysis for administrator must be prepared, accessed and modified only by the admin.
  + The system must announce the admin when the data is showed that having a dangerous patient.
* For Clinical staff:
  + The clinical staff have permission to log or view all the data and the changed data which belongs to them.
  + Every query changing the information of the staff will be noticed to that one’s.
  + The staff only allows to access to patient’s information who is treated by them or cannot know the data of other patients.

- 2 non-functional requirements of the system (How the system work)

* It must designed in a way 24/7 hours and easily available to the user
* The system must have a scalability for the case that the number of staffs and patients is grown.

2. Question 2:

- 2 User stories for Clinical staff:

* As a Clinical staff, I want to get all the related information and view the status of patient who I am working with. So, I can get the recover process of patient actively.
* The *Individual care management* feature is used every day and I want have some query options (such as: the most dangerous patient, whose bill is the highest,…). It helps a lot to announce the patient.

- 2 User stories for System administrator and records managers:

* As a System administrator and records managers, I want the system has the easy Database and Database Management System. It helps managing and reporting easier and more flexible.
* May have the online system to work remotely and response faster, instead of only using the clinical’s computer.

3. Question 3:

- The given descriptor of the software states that the software is required to:

* Project size is medium
* Need to be legacy and safety system for Database
* Requirements are fixed and clear.
* The team working can understand the requirements and get the terms of business.

=> V-model is the most suitable Software development model for the given scenario.

a) Requirements characteristics:

* The software is required to be reliable, easy to use and there is no chance that user can tolerate the issue in the functionality. Therefore, the software is needed to be bug free.
* The requirement are fixed and the size of the project is medium.
* There is no chance of changing in requirement as the requirements are well-defined.
* The requirements are well defined at early stage of the project. The requirements, output expected and features are well sure.

b) Development team:

* The team size is medium and there is nothing mentioned about change in the team working
* The development team will well understand the requirements and they will also get the support.

c) User involvement:

* The user is less involved in the project, they will provided the requirements and does not want any feedback between the development progress. (Small)

d) Delivery:

* We use V-model, a model follow the criteria of Waterfall model so that the small delivery is no need.

(Question 4 is below)

4. Question 4:

Story Map for “Individual care management”

