



Example Practice Exam SWE102

Introduction to Software Engineering (FPT University)

Subject: SWE201c – Paper no 1

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Exercise 1:

Functional Requirements:

- System has a function that allows administrators to interact directly with system to record information about patient appointments
- System allows administrators to generate reports for clinic management
- System administrators can ensure the security and integrity of the system
- Clinical staffs can look up and modify patient information
- Clinical staffs can record the treatment and medication prescribed to patients
- System allows clinical staffs to maintain a history of consultations

Non-functional Requirements:

- The system design has to focus on both safety and privacy concerns
- Close attention is paid to system usability so that user should be able to easily use system effort and make as few errors as possible

Exercise 2:

Clinical staffs:

- As a clinical staff, I want to look up and modify patient information so that I can easily take care of them

System administrators and record managers:

- As a system administrator and record manager, I want to be responsible for ensuring the security and integrity of system so that the system works well and our information is secured

Exercise 3:

Consideration for selecting model:

a. Requirement characteristics:

- Reliability: The system is required to be reliable and work well 24 hours a day, 7 days a week because Clinic service need to work a whole week
- The requirements are fixed and size of project is medium
- The requirements are well-defined by customer and seem not change
- The requirements are well defined at early stage of the project

b. Development team

- Team has 7 developers, 3QA, a team leader,
- No information of understanding level off user requirements by developers, but the Information Technology department of the medical center can help them

c. User involvement

- This project has participation of users which are the staff so that they can learn to use system quickly and make few errors. The team can get feedback from them

Conclusion:

Although the requirements are quite clearly in the early stage, we have the engagement of whole team supported by the Information Technology department of the medical center, and user to meet the expectations of the Clinic center that “easy to use, make as few errors as possible”. In addition, Agile seems perform best in almost all size of project. So Agile should be our choice.

Exercise 4:

I draw story map in **story-map.docx file** that I hand in together with this.