

SR Subjects – Assignment 1

Build a group 3-5(preferred 4) members then select one of the following topics in section "A. Topics" to build requirements document describing in section "B. Requirements for Requirements Document"

A. Topics

Topic 1. Football Management Information System

Vietnamese Football Federation (VFF) has over fifty football teams that play in the Vietnamese champion league, the first-class and second-class champion leagues. However, VFF does not have any software system, it manages football teams joined the federation manually, so that it is too difficult to track, manage its team, schedule plays, and notify the policies and related information to all the teams. VFF would like to develop a new web based-system that supports functionalities for tracking, managing personnel of each team. It also provide functionalities for scheduling plays (matches) and notifying information to each teams.

You and your group should contact with the partner and related people. Your team can be able to study current systems to elicit and develop requirements documents for this system.

Topic 2. Voluntary non-remunerated blood donation

Blood demand in medical treatment is increasing every year so that blood store in Vietnamese hospitals is always in overused status. Vietnamese Blood Institute (VBI) has done many campaigns of voluntary non-remunerated blood donation a year, to complement the lack of blood in medical treatment. However, VBI does not have any software system for managing voluntary blood donation so that there are a lot of problems such as VBI could not track who has donated twice or more, who sold blood or donated voluntary... To deal with these problems, VBI's Board of Managers decided to develop a new web-based system that will provide functionalities for managing voluntary blood donation campaigns and also have functions for VBI to publish campaign information to all people.

You and your group should contact with the partner and related people. Your team can be able to study current systems to elicit and develop requirements documents for this system.

Topic 3. Question and Answer website

Nowadays, people use internet to get advice or help for their issues in their life to be very popular. VietNet company specializing in social network services has done a research about consulting demand over internet. The result of research shows that the number of people needs advice about life problems rapidly increase (about 10% per year). To meet this demand, CEO of VietNet decided to develop a new website that support for people to put their questions about issues/problems in their life and then social experts can consult them about the solution or give some advices about that problem. VietNet hope that after this website complete, the numbers of users visit the company's website will increase 10% per year that can bring more advertising revenue for company in the coming years.

You and your group should contact with the partner and related people. Your team can be able to study current systems to elicit and develop requirements documents for this system.

Topic 4. Learning Japanese Website

There are more and more Japanese companies investing in VN and many Vietnamese people wants to studying and working in Japan so that Japanese learning demand is increasing in VietNam. In order to meet this demand, Vietnam Education and Training (VET) company decide to develop a Japanese learning website that support for its learners to be easier in Japanese study.

You and your group should contact with the partner and related people. Your team can be able to study current system to elicit and develop requirements documents for this system.

Topic 5. Private clinic management

Hong Ngoc (HN) company is a company specializing in health care services. It provides a lot of services in health care fields. HN has many clinic centers in Ha Noi and other provinces, but currently HN does not have any software system so that managers are very difficult to track, manage clinic activities in clinic centers, especially remote clinic centers. HN CEO decided to develop a software system that support for management of clinic centers.

You and your group should contact with the partner and related people. Your team can be able to study current systems to elicit and develop requirements documents for this system.

Topic 6. Doctor's Social Network

Social network is very popular in Viet Nam. There are more and more Vietnamese people using social network for sharing information, wishes, feeling, thinking,... with their friends and other people. However, social network for doctor is still limited so that doctors who has experiences or issues may not have chances to get helps from other doctors in VN or in the world. To support for doctors dealing with issues, CEO of GHP company that specializes in health care services decided to develop a social network for doctors that will provide functions for doctors to sharing their issues, problems, and other information related to their field. It also provide functions for users to get advices about their problems from other doctors in VN or other countries in the world.

You and your group should contact with the partner and related people or study related documents. Your team can be able to study current system to elicit and develop requirements documents for this system.

B. Requirements for Requirements Document

Your group should contact with the partners, customer or research the current systems in the market and then understand, analyse and elicit requirements, objectives. Finally, your groups shall develop system requirements specification documents for the system-to-be and build prototypes/mock-up of the one of the above topics.

B1. Use template **Template_System Requirement Spec (IEEE830)[1].doc** for creating Requirements Document. The requirements documents must have the at least following sections/topics

- 1) Define objectives of the system-to-be and then **put them in section 1.2 in [1]**.
- 2) Identify stakeholders of the system-to-be. This section should describe their the role, responsibility, and characteristics and then **put them in section 1.5 and section 2.4 in [1]**
- 3) Build context diagram & problem diagram for system-to-be (the models should have the overall descriptions of the the components in the system-to-be) and then put them **into section 2.1 and section 2.2 in [1]**
- 4) Use scenario technique to describe all possible scenarios in system-to-be (at least 6 scenarios) and then put them **into section 3.1 in [1]**
- 5) Build prototypes for the system-to-be (at least screens & possible functions of 5 function groups) and then put copy screen & screen definition **into section 3.1 in [1]**.
- 6) Discover all non-functional requirements (about QoS- Quality of Services, Architectural, and Development) of the system-to-be and then put the requirements in **section 3.2.1 and section 3.2.2 in [1]**
- 7) Identify, assess and control the potential risks if we develop system-to-be and then put them into section **Appendixes in [1]**.

B2. The RD should enclosed with the following documents

- 1) Define questionnaires set to gather requirements (**SR_Questionnaires Templates.xls**)
- 2) Reports documents recorded in the interview meeting with stakeholders. (**MeetingMinute_Template_v1.0.doc**)
- 3) Requirements review check lists (**Checklist_SRS Review.xls**)

Notes

- 1) The deliverable documents of assignment 1 must include:
 - a. Requirements documents in MS Word format
 - b. Prototypes must be in source files e.g. in Excel, PowerPoints, ...or HTML format
 - c. Context diagram and problem diagrams in Visio format
- 2) The enclosed document must have a document (use **ClassName_Group_Task AssignmentNotes.xls template**) noted team member's responsibility.
- 3) Documents should be zipped in one file before uploading to CMS. The file name must follow convention **ClassName_Project topic.zip** e.g. **SE0421_HotelManagementSystem.zip**