

# SR Subjects – Assignment 1

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

## **A. Topics**

*Students can select your own topic, but if you can't then following topics are choices which you can pick.*

### **Topic 1. Online Shopping for Baking Ingredients System**

Gia Hoa Phat company is a company working in food industry. It has many shops selling the all ingredients for baking and furnitures used to making bake e.g. oven... It has a plan to implement a project to transform its business from the traditional to the e-business

You and your group should contact with the stakeholders and study the existing system to elicit and develop requirements documents for this system.

### **Topic 2. Defects Management System (DMS)**

FPT Software is one of the biggest software outsourcing companies in Viet Nam. It has hundreds of customers and thousand of projects every year that leads to the overloading of the existing project Defect Management system. Therefore, Fsoft wants to migrate the current DMS to run on the new platform (Java, Unix);

You and your group should contact with the stakeholders and study the existing system to elicit and develop requirements documents for the new system to resolve the above issues but keep the current features of this system .

### **Topic 3. Sharing Picture Website**

Your boss decided to develop and provide a Sharing Picture Website which provides picture editing tools and sharing function so that the member in the community can see them.

You and your group should contact with the stakeholders and other departments of the company to elicit and develop requirements documents for this system.

### **Topic 4. Online Real Estate Auction**

Gia Hoa Phat (GHP) has a plan to provide online Real estate Auction services that allows real estate owners register his asset for auction and provide the asset information for GHP and then GHP can organize online auction to sell the registered real estate of GHP's customer. Otherwise, GHP's administration and sale departments can manage registration and customer information...

You and your group should contact with the stakeholders and study the existing system to elicit and develop requirements documents for this system.

***Topic 5. Vehicle Plate Tracking in Car Parking***

VPT is a specialized company in Car Parking services. In order to improve quality of services, reduce cost and efficient in management, it wants to develop a Vehicle Plate Tracking System and then installed in all the Car-Parking. It allows staff and managers to track vehicles in/out and parking fee of all vehicles.

You and your group should contact with stakeholders to elicit and develop requirements documents for this system.

***Topic 6. Online Job Searching System***

JobGo is a startup who are creating an Online Job Searching System with a new approach with requirements of applying mobile technology in it.

You and your group should contact with the stakeholders to elicit and develop requirements documents for this system.

***Topic 7. Timesheet Tracking System***

FPT Software is one of the biggest software outsourcing companies in Viet Nam. It has hundreds of customers and thousand of projects every year that leads to the overloading of the existing Project Timesheet Management. Therefore, FSoft wants to migrate the current Timesheet Tracking System to run on the new platform (Java, Unix);

***Topic 8. Education Center Management System***

KidCode is an Programming Education Center for kids, they are developing an Education Center Management System for operating their daily works.

You and your group should contact with the stakeholders to elicit and develop requirements documents for this system.

***Topic 9. Library Management System***

FPT University Library Department planned to upgrade their current system, they asked your group to analysis the requirements for their new Library Management System.

You and your group should contact with the stakeholders to elicit and develop requirements documents for this system.

***Topic 10. Accounting System***

FPT University Accounting Department Head thinks that the current system in his department is too obsolete, he asked your team to analysis the requirements for a modern Accounting System with new technology applications.  
You and your group should contact with the stakeholders to elicit and develop requirements documents for this system.

**Topic 11. Life Insurance Customer Management System**

AIA is a life insurance company who have thousands of customers of life insurance service packages. They are trying to develop a new Customer Relationship Management system to manage and take care their customer to improve their customer service.

You and your group should contact with the stakeholders to elicit and develop requirements documents for this system.

**Topic 12. Patient Management System for a clinic**

Hong Ngoc Hospital head are looking for a development team who could develop a Patient Management System for its clinic.

You and your group should contact with the stakeholders to elicit and develop requirements documents for this system.

**B. Requirements for User Requirement Document (Assignment 1 Report)**

Your group should contact with the parters, 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 your selected topic.

- 1) First you need to create a **Vision and Scope Document** to define business requirements of your selected topic project by using "Vision and Scope Template.docx" template.
- 2) Then use template **Template\_System\_Requirement\_Spec\_IEEE830\_v1.3.docx [1]** for creating Requirements Document.

The document must have the following sections/topics

- 1) Define objectives of the system-to-be (**section 1.2 in [1]**)  
Its content is come from the Vision and Scope Document in the first step.
- 2) Use techniques such as context diagram, ecosystem map, feature trees or event lists to identify business requirements of the system-to-be (**section 2.1-2 in [1]**)
- 3) Identify stakeholders of the system-to-be. This section should decribe their the role, responsibility, and characteristics (**section 1.5 and section 2.3-4 in [1]**).
- 4) Build prototypes for the system-to-be (at least contains main screens & possible functions) (**section 3.1 in [1]**)
- 5) Use scenario technique to describe all possible scenarios of functions in system-to-be (at least it contains main scenarios for the main functions). Draw Use Case Diagram (fill in **section 3.1 in [1]**)

- 6) Discover all non-functional requirements (about QoS, Architectural, and Develepment) of the system-to-be (fill in **section 3.2 and section 3.4 in [1]**)

### **Notes**

- 1) The deliverable documents of assigment 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
- 2) Documents should be zipped in one file before uploading to CMS. The file name must follow convention **ClassName\_Topic#\_TopicName.zip** e.g. SE1420\_Topic6\_JobSearching.zip