

Project

A major component of the course is a software development project. The objective is to develop a software product for an actual client who intends to use it in his/her real business.

At the beginning of the course, you will form project teams with 4 members. During the semester, the project team will work together through the full development cycle, from understanding the requirements to delivering a functioning product, and will submit the reports mentioned below in the table on the given deadlines. A potential project is suggested. While working on this project, think broadly.

Deliverables:

Each group should read this table and deliver the documents on date.

Date	Document
29/09/2023	Project Start
26/11/2023	<ul style="list-style-type: none">• Requirements Document. (Functional +Non-Functional Requirements+ Actor Goal List) [Full System]• Use-case Diagrams of Full System• Description of use cases (2 Most Complex)• Class Diagrams of Full System• Activity Diagrams (One most complex use case, With Swim Lane)
06/12/2023	Final Document

Project Suggestion

Management Application for a Construction Company

Purpose of this summary is to present high level requirements for Application for a construction company. The company has many branches and every branch has a manager. One branch can work for different construction sites. Different branches can work on the same construction site. Every Branch will have same kind of departments and department will have staff members working for that department. Following points need to be considered while gathering/analyzing the requirements.

1. Application should manage (add information, update information, delete information, view/search information) following
 - a. Company
 - b. Branches
 - c. Managers
 - d. Departments
 - e. Staff
 - f. Adding Staff to Department
 - g. Adding Department to a Branch
 - h. Adding branch to company
 - i. Assigning Manager to Branch
 - j. Construction Sites
 - k. Assigning Construction Site to a branch
2. Try to explore the detailed requirements that must contain the suitable attributes of the above entities and operations then document these requirements according to the nature of the milestones of the project.
3. Following reports must be generated from the system. This will give you the idea to find and establish relationships between different entities and helpful in deciding the attributes of the entities.
 - a. Information of all Construction Sites on which Company (all branches) worked between two specific dates
 - b. Information of all current managers along with their branch's information.
 - c. Information of all managers for a specific branch
 - d. Information of all construction sites on which some specific branch worked between two specific dates
 - e. Information of all staff members that worked on a specific construction site.
 - f. Information of all construction sites who have purposed budget greater than given amount.
 - g. Information of all staff members of the company along with the information of their current departments and branches.