

Project

The project is a major part of your internal grade (Practical and theory). The project involves the analysis and design of an information system. The projects should include the following:

Project Description

1. The project should address a real life situation and should be implementable. You can also use traditional firms if you can get the requisite permission from the appropriate people. Also, they should be able to provide you with the data to complete your project.
2. For the firm you have chosen, identify the major functions that a firm can perform.
3. Document each function. Figure out the process used in each function, the inputs used, and the outputs generated. However, web pages alone will be inadequate. You have to use your knowledge about the industry/firm/function to identify other data used by the system.
4. Identify at least two problems or limitations related to the functionality. The limitations could be new functions that could be useful to a potential customer or improvements over existing functions.
5. Model the system using structural analysis models.
6. Analyze the models and propose a new system.
7. Transform the models into detailed design

Project Deliverables

I: Introduction to the system and background of the system

1. Introduction
2. Organization profile
3. Background of the project
4. Beneficiaries of the system
5. Problem of the existing system
6. Resource requirements
7. Methodologies
 - a. Data gathering tools
 - b. Requirement analysis tools
 - c. Design tools
 - d. Development environment
 - e. Descriptions
 - f. System concepts for Data modeling
8. Feasibility studies
 - a. Economic feasibility
 - b. Technical feasibility
 - c. Operational feasibility
 - d. Legal & contractual feasibility
 - e. Political feasibility

- f. Schedule & resource feasibility
- 9. Related literature review

II. Systems Analysis Activities: (Requirement gathering and Structuring)

Requirements Analysis Document (RAD) document completely describes the system in terms of functional and non-functional requirements and serves as a contractual basis between the client and the developers

- 1. Requirements Determination
 - a. Fact Finding Techniques
 - b. Traditional Methods for gathering requirements
 - c. Interviews, Questionnaires, Direct observation, Collecting & Reviewing documentation
 - d. Modern methods for gathering requirements
- 2. Structuring System Requirements
 - a. Process Modeling (DFD Diagrams)
 - b. Conceptual Data Modeling (ER Diagrams)

III: System Design

Mapping subsystems to hardware/software platform

- 1. Designing the human interface
- 2. Designing Forms and Reports
- 3. Database design (Logical and Physical database)
- 4. Logical database design
- 5. Physical database

IV: System Implementation

- 1. Coding
- 2. Testing
- 3. Installation
- 4. Documentation
- 5. Training
- 6. Support and Maintenance

V. Conclusion, Recommendation and Future Work

Group Formulation:

Seven Groups of 5 members with one leader are to be formed.

Report Format:

- 1. Cover Page
- 2. Title
- 3. Abstract
- 4. List of abbreviation
- 5. Table of Contents

6. Introduction
 - 6.1. Organization profile
 - 6.2. Group information
 - 6.3. Background of the project
 - 6.4. Beneficiaries of the system
 - 6.5. Literature Review (if any)
7. Planing
 - 7.1. Mapping of Stakeholders
 - 7.2. Projection Identification and selection
 - 7.3. Feasibility study
8. System Analysis
 - 8.1. Information Gathering
 - 8.2. Modeling
 - 8.2.1. DFD Diagram
 - 8.2.2. ER Diagram
 - 8.2.3. Decision Tree/Table
9. System Design
 - 9.1. Designing Forms and Reports
 - 9.2. Logical database design
 - 9.3. Physical database design
 - 9.4. Designing the human interface
10. Implementation
 - 10.1. Coding
 - 10.2. Testing
 - 10.3. Installation
 - 10.4. Documentation
 - 10.5. Training
 - 10.6. Support and Maintenance
11. Conclusion
12. Recommendations
13. Annex I: Survey Questionnaire and any other related documents

Report Submission:

A group report is to be submitted **before.....**

Presentation Format:

1. Presentation in slide.
2. 15 Min Ppt and 5 minutes QA.
3. Preference to images, diagrams and table rather than words
4. Maximum 5-7 sentence per slide

5. Font size 36 for title of slide and 24 for slide body

Presentation Submission and Presentation Day:

A group presentation is to be held on Submit your slide one day before the presentation day.