IUBAT–INTERNATIONAL UNIVERSITY OF BUSINESS AGRICULTURE AND TECHNOLOGY

Founded 1991 by Md. AlimullahMiyan

Development of School Admission Management System

Prepared For

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Table of Contents

- Organizational Overview
- Structure of Organization
- Project Objectives
- Project Objectives
- Iterative Process Model
- Feasibility Study
- Requirements - Hardware & Software
- System Analysis & Design
- System Planning & Project Scheduling
- Analysis Modeling
- Risk Management
- Quality Assurance & Testing
- Testing Design
- Limitation of Project
- Future Work
- Project Demonstration
- Conclusion

Organizational Overview

Enosis Solutions

- Offshore software engineering and consultancy company.
- Developed a unique collaborative model of partnering with clients to deliver great software products to market rapidly and economically.
- Ongoing success as offshore partner for some of the world's leading software companies in the large scale Enterprise Computing and Numerical Mechanics space.

Structure of the Organization

Structure:

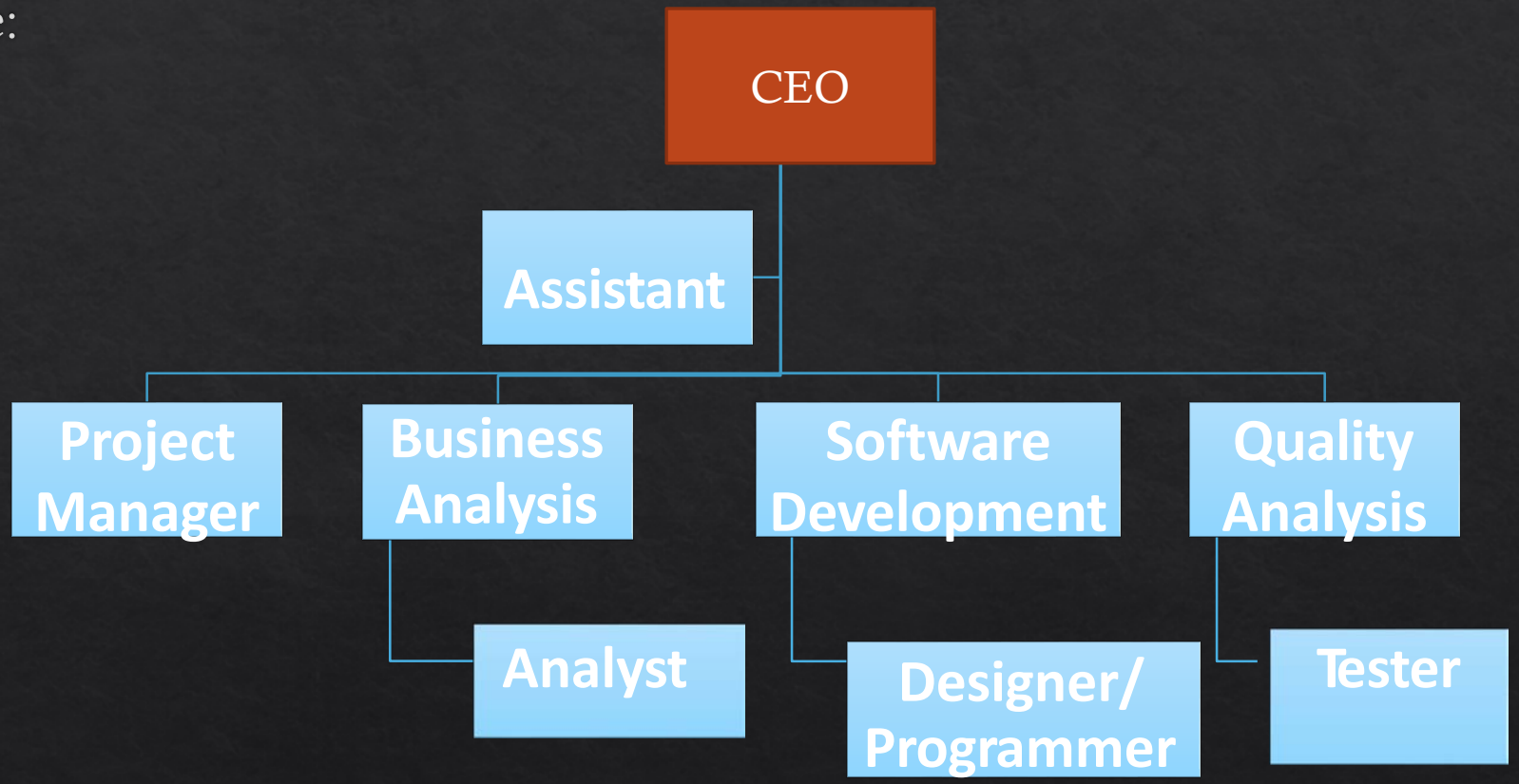


Figure- 1: Organizational Structure

Project Objective

Broad Objectives

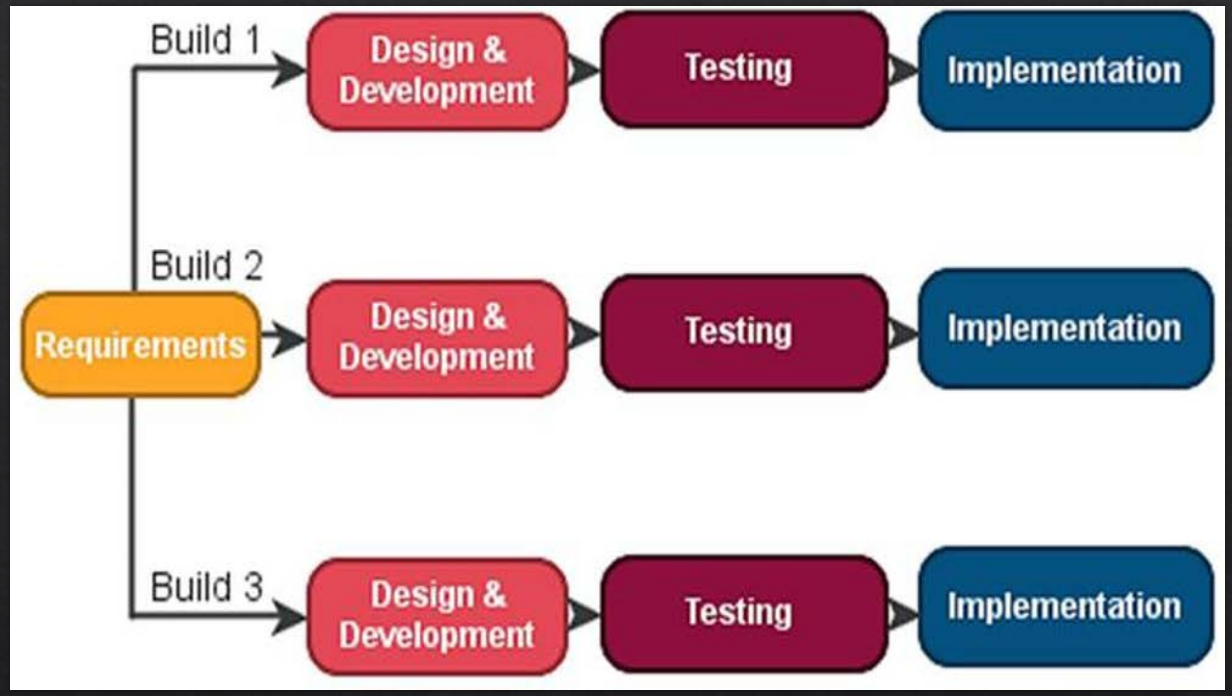
The broad objective is to develop a software that maintains all the process of admission procedure of a school

Specific Objectives

- Distribute admission form online
- Apply online
- Approve or reject students online
- Store students detail online
- View the result online

Iterative Process Model
Feature of Iterative Process Model:

- Clear Requirement and understand properly.
- High Risk Features and Changeable goals.
- Better for large and mission critical project.



Feasibility Study

Technical Feasibility

This project is technically feasible because for making this

project the require technology is available.

Economic Feasibility

This project is economically feasible because the total personnel cost, time, software and hardware cost for making this project is less than the client budget. Operational Feasibility

This project is operationally feasible because the actual or

target user are able to use the project nicely.

Requirements Engineering

Hardware Requirements

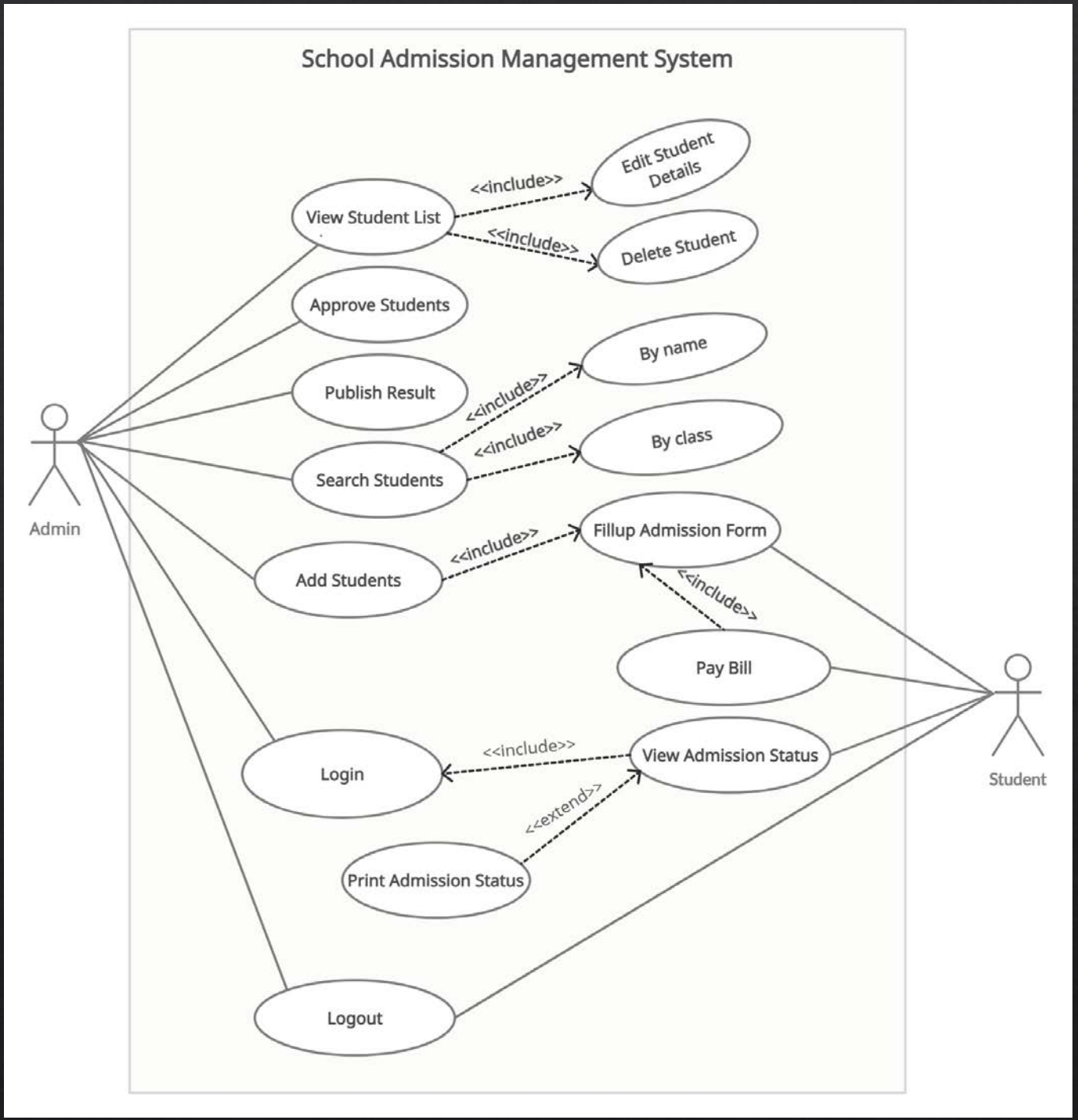
- A minimum of Pentium 4 with a speed of 1.3 GHz.
- A minimum RAM capacity of at least 512MB.
- Hard disk capacity of at least 100mb free space

Software Requirements

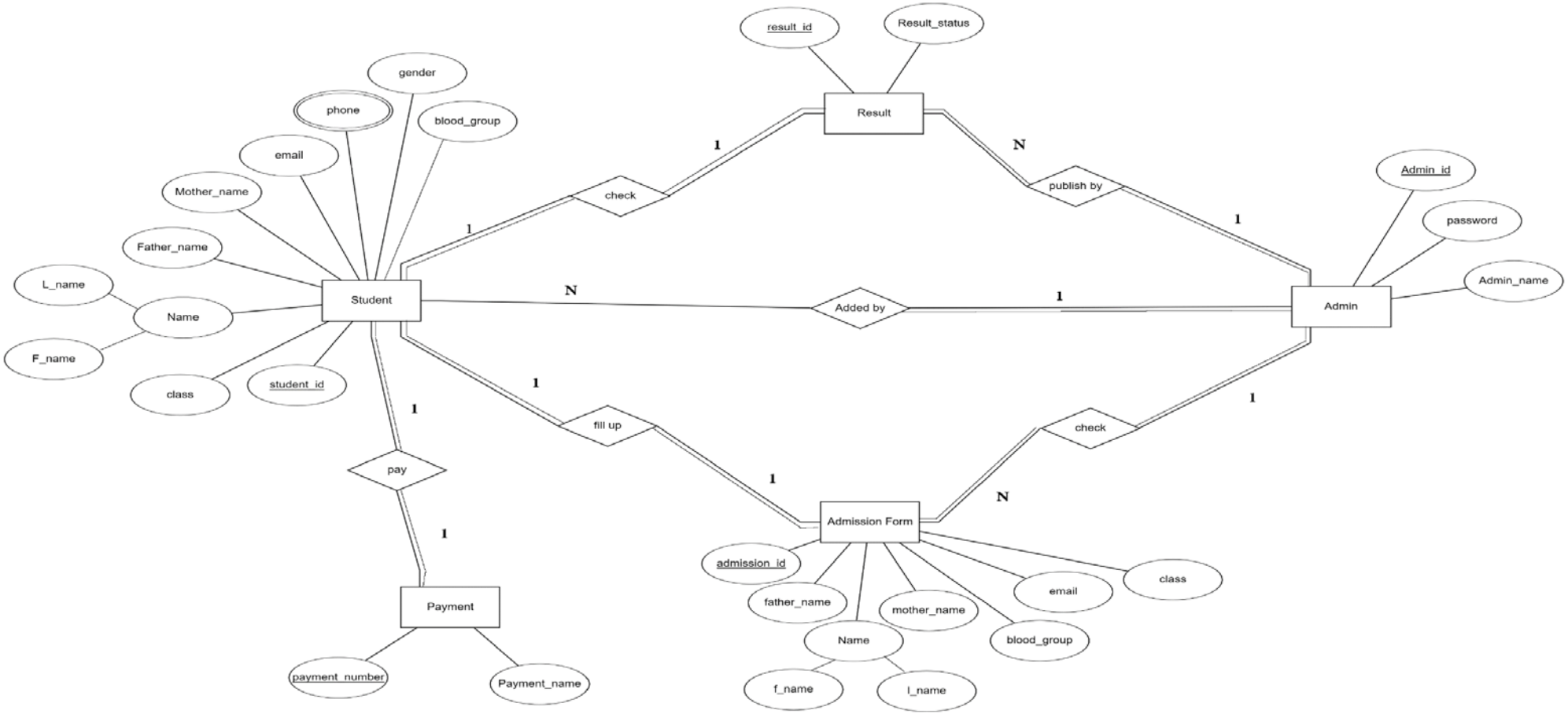
- Windows 7 and above.
- Xampp Server
- Web Browser (Firefox or Chrome)

System Analysis and Design

USE CASE DIAGRAM:



System Analysis and Design: ERD

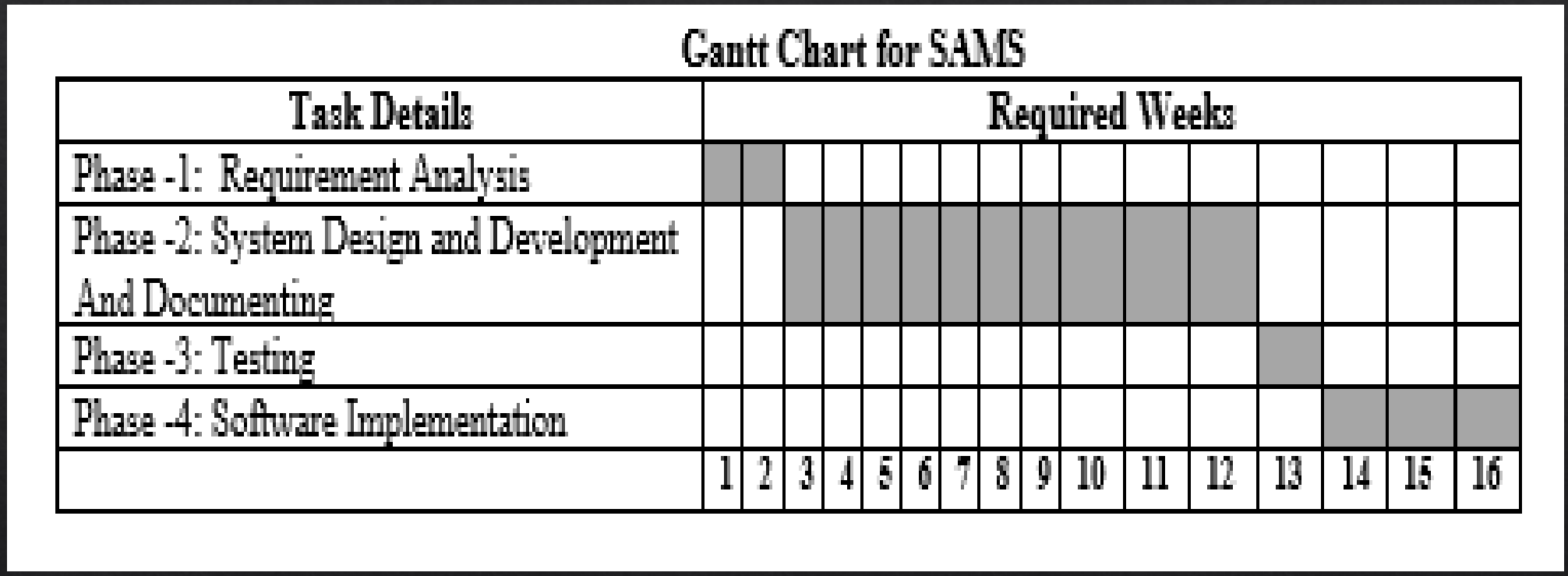


System Planning & Project Scheduling

Project Scheduling Table for SAMS

Phases	Tasks	Pre Requisite	Days Required	Weeks Required
Phase -1: Requirement Analysis	1.1 Interviewing user management	None	2	2
	1.2 Summarizing the knowledge obtained	1.1	2	
	1.3 Estimating the scope of the project	1.1 1.2	2	
	1.4 Documenting the results	1.1 1.2 1.3	1	
	1.5 Sampling and investing hard data	1.4	2	
	1.6 Questionnaires	None	1	
	1.7 Prototyping	1.4 1.6	3	
Phase -2: System Design and Development And Documenting	2.1 Create data flow diagrams	1.4 1.7	6	10
	2.2 Complete the data dictionary	1.6 2.1	4	
	2.3 Prepare & present the system proposal	1.4 1.5 2.1	4	
	2.4 Design procedures for data entry	1.7 2.1	7	
	2.5 Design the human-computer interface	2.4	3	
	2.6 Design system controls	2.1 2.4	3	
	2.7 Design files and/or database	1.5 2.1	5	
	2.8 Design backup procedures	2.7	3	
	2.9 Develop the actual software	2.4 – 2.8	28	
	2.10 Document software user manuals and website with FAQ	2.9	7	
Phase -3: Testing	3.1 Test the Developed system	2.9	4	1
	3.2 Fix any system bug (if found)	3.1 2.9	3	
Phase -4: Software Implementation	4.1 Deploy the actual software	3.1 3.2	7	3
	4.2 Train users	4.1	4	
	4.3 System maintenance	4.2	7	
	4.4 Review and evaluate system	4.2 4.3	3	
Total Estimation: Tasks – 23 Interrelated			**112**	**16**

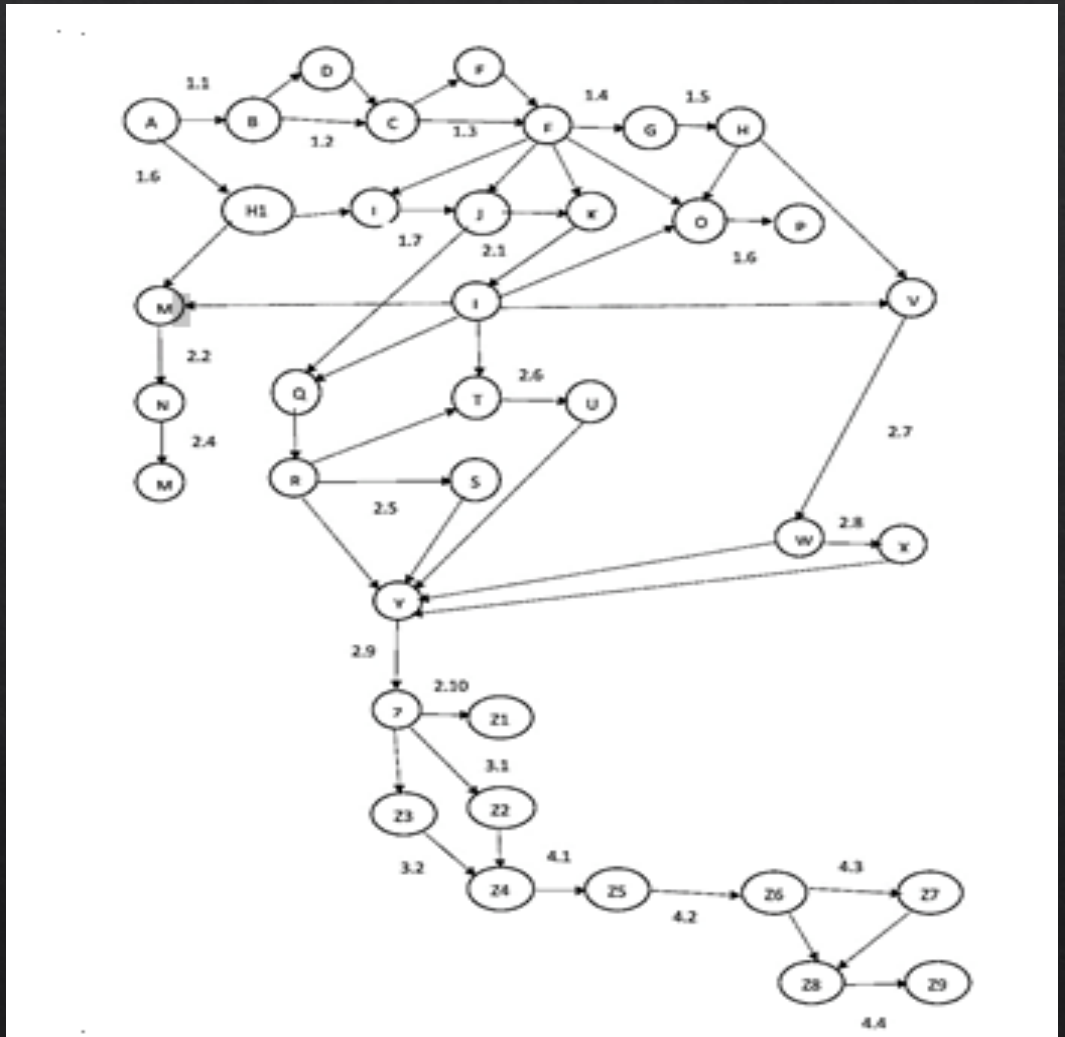
System Planning & Project Scheduling(Gannt Chart)



Gantt Chart for SAMS

Task Details	Required Weeks															
Phase -1: Requirement Analysis																
Phase -2: System Design and Development And Documenting																
Phase -3: Testing																
Phase -4: Software Implementation																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

System Planning & Project Scheduling(PERT Diagram)



Pert Diagram of School Admission Management System

Risk Management

◈ A risk is a potential problem that might or might not happen. It is necessary to analyze the potential risks in a project. The following categories of risks have been considered in this software project:

- Project Risks: Changes the requirements.
- Technical Risks: Lack of Experience, Hard Disk Crash.
- Business Risks: Insufficient Budget, End Users Accept System.

Quality Assurance & Testing

- Quality Assurance makes sure the project will be completed based on the previously agreed specifications, standards and functionality required without defects and possible problems.
- System Testing Methods:

I. **Black Box Testing**: Black-box testing which is also known as behavioral testing focuses on the functional requirements of the software.

II. **White Box Testing**: White-box testing, which also known as glass-box testing, is a test case design method that uses the control structure of the procedural design to derived test cases.

Testing:

Table 6. 1: ***Testing Scenario No: 01***

Scenario	Login testing scenario of our system
Input's	Username and password of admin for login
Desired Output's	When enter username, password then get access level define.
Actual Output's	For login our system works properly.
Verdict	Getting result from desired outputs and actual outputs decided this system is successful for login.

Table 6. 2: ***Testing Scenario No: 02***

Scenario	Student info insert testing scenario of our system
Input's	Admin insert student details
Desired Output's	Student info will show for accept or reject.
Actual Output's	We check this process and get actual outputs
Verdict	Our system is worked correctly and successfully.

Testing: (Continued)

Table 6. 3: ***Testing Scenario No: 03***

Scenario	Information insert testing scenario of our system
Input's	Students insert their info
Desired Output's	Start time will add into db
Actual Output's	We check this process and get actual outputs
Verdict	Our system is worked correctly and successfully.

Table 6. 4: ***Testing Scenario No: 04***

Scenario	Update students info testing scenario of our system
Input's	Admin insert new information about existing student.
Desired Output's	Update report will show
Actual Output's	Our desired output access to actual and practical output. So, this is successful.
Verdict	Our system is worked correctly and successfully.

Testing: (Continued)

Table 6. 5: ***Testing Scenario No: 05***

Scenario	Final result generation testing scenario of our system
Input's	Students will request to generate result.
Desired Output's	After login system will generate a result.
Actual Output's	Our desired output access to actual and practical output. So, this is successful.
Verdict	Our system is worked correctly and successfully.

Limitations

This project has some limitations those we have planned to develop in futures. The limitations are-

- Applicants cannot pay admission fee via online payment
- Interfaces are little bit complex to understand at first glance.
- Embedded account management and some other module is needed to be implemented.
- Students will not get any mobile SMS notification for confirmation or rejection.

Future Plan

- In future it can be possible to add more features e.g.
  - Online payment gateway
  - More backend and database security
  - More user friendly interface
  - More module will be included.
  - Mobile SMS notification (for student)
  - Change password module for admin
  - Make a report for the student admission

Conclusion

Our project is only a humble venture to satisfy the needs in Development of School Admission Management System. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the organizer.