

Project Report Format

(For Second Year ME Programs)

Abstract

1. Introduction

1.1 System Reference

Describe the complete system into which your project fits in. This section should specify the applications/uses of the complete system. (You may have added/improvised an already existing system)

1.2 Overall Description

Specify what your project intends to achieve in the larger perspective of the system. Specify in general the requirements of your work and also in general solutions provided by your project.

2. General Description

2.1 Product Functions

Name the various functions that your product performs.

2.2 Users

List the intended audience/users of your product.

2.3 General Constraints

Specify the hardware and software framework that your product is dependent on.

2.4 Assumptions

Narrate whether the solution is absolutely general or some assumptions have been made regarding the problem.

3. Specific Requirements

This chapter should specify only the requirements in simple English. Do not include solution descriptions.

3.1 Functional Requirements

3.1.1 Functional Requirement 1

3.1.1.1 Introduction

3.1.1.2 Inputs

3.1.1.3 Processing

3.1.1.4 Outputs

3.1.2 Functional Requirement 2

3.1.2.1 Introduction

3.1.2.2 Inputs

3.1.2.3 Processing

3.1.2.4 Outputs

3.1.3 Functional Requirement 3

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3.1.N Functional Requirement N

3.1.N.1 Introduction

3.1.N.2 Inputs

3.1.N.3 Processing

3.1.N.4 Outputs

3.2 External Interface Requirements

3.2.1 User Interfaces

3.2.2 Hardware Interfaces

3.2.3 software Interfaces

3.2.4 Communication Interfaces

3.3 Performance Requirements

This section should list speed, scalability, memory, power, and area requirements.

3.3.1 Performance Requirement 1

3.3.1.1 Introduction

3.3.1.2 Performance Requirement

3.3.2 Performance Requirement 2

3.3.2.1 Introduction

3.3.2.2 Performance Requirement

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3.3.N Performance Requirement N

3.3.N.1 Introduction

3.3.N.2 Performance Requirement

3.4 Design Constraints

3.4.1 Standards Compliance

3.4.2 Hardware Limitations

3.4.3 Systems Limitations

3.5 Attributes

3.5.1 Availability

Specify duration for which the services of your product be available. Is it always available or only when it is executed?

3.5.2 Security/Privacy

3.5.3 Portability

3.5.4 Quality Assurance Requirements

3.5.5 Accuracy Requirements

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3.6 Other Requirements

3.6.1 Database

3.6.2 Related Documentation

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4. Behavioral Description

4.1 System States

If your solution is designed to run through well-defined states, show the state transition diagram. Each state, inputs to the state and the next state should be clearly shown.

4.2 Events and Actions

Description about events that trigger transition to other states and the outputs associated with the actions/states.

5. Data Design

5.1 Data Objects or Data Structures

5.2 Files and Database Structures

5.2.1 Logical File Structure

5.2.2 Logical Record Description

5.2.3 Access Methods

5.3 Global Data

6. Procedural Design

For each major module or component

6.1 Module Name

6.2 Processing Narrative

6.3 Algorithm Description

6.4 Modules Used

6.5 Comments/Restrictions/Limitations

7. Interface Design

7.1 User-machine Interfaces

Important screen shots.

7.2 Interfaces to external Programs, Systems or Devices.

8. Test Provision

8.1 Test Guidelines

8.2 Module Testing

For each major module or component

8.2.1 Module Name

8.2.2 Test Case

8.3 Integration Strategy

9. Conclusion and scope for future work.

10. Bibliography

11. Appendices