

SRS FORMAT

& CONTENTS

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University Logo



## School of Technology

* COURSE: XXXX

## SYSTEM REQUIREMENT SPECIFICATION.

* REG\_NUMBER: xxxxxxxxxxxxx

## NAME: xxxxxxxxxxxxx

* SUPERVISOR: xxxxxxxxxxx

## DATE SUBMITTED: dd/mm/yyyy

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# Table of contents



## Must be auto generated

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* **1.0 - Introduction Section**



* **1.1 Purpose**
  + Outline the purpose of the particular SRS(**be specific to the system’s SRS and don’t define SRS**)

#### specify the intended audience for the SRS (your targeted users, application designers and developers)

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* **1.0 - Introduction Section**



* **1.2 Scope**

#### Identify the system to be produced by **NAME**.

* Explain what the system will do, and what it will not do(detailed scope of your system)
* Describe the **system benefits** and **objectives** as precisely as possible

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* **1.0 - Introduction Section**



* **1.3 Definitions, Acronyms and Abbreviations**

#### Define important terms.

* Give the full meaning of acronyms and abbreviations that appear in the document.

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* **1.0 - Introduction Section**



# 1.4 Overview(summary of the SRS document)

#### Describe what the rest of the SRS contains.

* How the SRS is organized; For example what appears in chapter 1, chapter 2,….

#### This is not the same as table of contents.

* It is a **summary of the contents.**

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##### 2. General description



* **2.1 System perspective:**
* State whether the system will be and totally self contained or integrated

(stand alone vs. distributed).

* If the system is component of a larger system then:
  1. Briefly describe the functions of each component of the larger system and identify interfaces(between your system and its environment)
  2. Give overview of the principal external interfaces of this system.
  3. Give overview of hardware and peripheral equipment to be used
* Give a block diagram showing the major components of the system, interconnections, and external interfaces.

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**2. General description**



* **2.2 System Functionality**
* Describe the functions the system will **perform in details**.

### Do not assume the user knows what the system is supposed to do.

* Describe even the minor details.

### This part is crucial.

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# 2. General description



* **2.3 User Characteristics**
* Outline the system users (**All of them**).

## Briefly describe the general characteristics each user (your client) of the system. (such as educational level, experience and technical expertise ).

* Discuss specific user requirements (each user will have different expectations and requirements).

## For example, a clerk may have different requirement from the CEO, hence you need to specify each.

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# 2. General description



* **2.4 General Constraints**

## Regulatory policies(For example policies to regulate access, modification of data in the system)

* Hardware limitations specific to the system

## Safety and security considerations for the system and its environment.

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# 2. General description



* **2.5 Assumptions and dependencies**

## Outline any assumptions you made about your system and users.

* This means you must have some **background information** about the organization (users and the general environment).

## No guess work!

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##### 3. 0 Specific Requirements



* **3.1 Functional requirements:**

##### Inputs and Outputs

* sources of inputs and destination of outputs
* quantities, units of measure, ranges of valid inputs and outputs
* timing(e.g. how long it may take to produce a report online)

##### Processing

* Validation of input data(system should be able to validate inputs.).
* Exact sequence of operations( you may use flow chart diagrams)
* Responses to abnormal situations(e.g. system displays alert messages in case of an error)
* Any methods (eg. equations, algorithms) to be used to transform inputs to outputs

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##### 3. 0 Specific Requirements



* **3.2 User Interface Requirements**
* Draw the user interfaces e.g. forms and reports and pages (web).
* Hardware interfaces(e.g. PC-RAM, Processor speed, free disk space,…) must be specified.
* Software interfaces(Example OS platform:- windows xp running on Visual basic 6.0 and Ms Access 2003 database) are specified.
* Communications interfaces if any (will the system require online communication)
* Other requirements
  + frequency of use, accessing capabilities, static and dynamic organization, retention requirements for data
  + operations: periods of interactive and unattended operations, backup, recovery operations

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##### 4. Appendices



* It may include:
* Results of surveys from the research: in either narrative form, charts or graphs, filled questionnaires or interview response sheet.
* Sample data of at least 5 records for every area of research
* supporting documents to help readers of SRS(e .g A map showing the physical location of the client)

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MARKSHEET FOR SRS



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| --- | --- |
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| Scope | 1 |
| Definitions & Acronames | 1 |
| Overview | 1 |
| 2 **GENERAL SPECIFICATIONS** |  |
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| System functionality (What the system does) | 2 |
| User Characteristics (Users & their specific requirements) | 3 |
| General Constraints(limitations/ security) | 1 |
| Assumptions Dependencies | 1 |
| 3 **SPECIFIC REQUIREMENTS** |  |
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| Other requirements | 1 |
| 4 **APPENDIX** |  |

Survey Results 1

Sample data 1

Support Document 1

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## NOTE



* The SRS is a document and is actually a blue print for the system you are developing.

## Presented to the supervisor for marking and advise.

* You must sign after submission.

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