



## Software Requirements Specification (SRS)

**Title: CS Department ID card Management System**

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## **Abstract**

Design requirements documentation for the implementation of a Departmental Identity Card Management System.

## **SECTION 1: Introduction**

### **1.1 Definitions, Acronyms, and Abbreviations**

ID – Identity Card

SRS – Software Requirement Specification

SQL – Server Query Language

PC – Personal Computer

GUI – Graphical User Interface

UML – Unified Modeling Language

NIC – National Identity Card

ICMS – Identity Card Management System

#### **1.1.2 Structure of Document**

The SRS document has three main sections, beginning with an introduction, which give background information and define the needs for the document. The and also gives a detail and overall description, with detail on general functions and behavior of the system. The final chapter describes specific requirements for purposed system, with the aid of flow and UML diagrams

#### **1.1.3 Purpose**

Software requirement specifications (SRS) document is a description of the expected software features, constraints, interfaces and other attributes. Aim of this document is to document the agreed requirements with the project supervisor; to provide the basis for design; to provide the basis for system test.

### **1.1.4 Scope:**

This ID card management system helps the users to develop and manage the ID card in systematic way. It is easy to use. Some web based tools are also used in this system, Student can submit their form

## **1.2 System Objectives**

The following are generalized objectives for this software in order of importance:

### **1.2.1 Student independence**

It is important that the students provide their information online to complete tasks that we all take for granted independently. This is the main objective for the tour once it is completed. So student can easily submit there information in the system data base, which is further collected by the ID card designer, a person. Who will design and develop the students ID card.

### **1.2.2 Availability to be updated**

The software is designed in such a way that it is easy to edit the student's information from student sides, and they can modify the ID card form, if they have missed any field that is necessary for the ID cards.

## **SECTION 2: The Overall Description**

### **2.1 Product Perspective:**

This software is developing to do different task regarding to the ID card systems. One portion is for the students and one for the person who manages and designs the special ID card and then prints out them for the students of the department.

For this we will use the different software for managing the software ID card management system.

## 2.2 System Interfaces for students:

The design of the system interface consists of four levels.

- Student interface
- Web based form
- User logged in system
- Save his information in the data base

## 2.3 Student Interface:

Web based user Interface for submitting the complete information about the student is designed, which will provide all necessary field to fill out from the student for developing their new ID card.

SQL Database is important which save the entire students information, including the student names, roll numbers, father names, class of the students, students related all other information like student photo graph, department of the student. NIC number of the student is also important for the complete information of the student

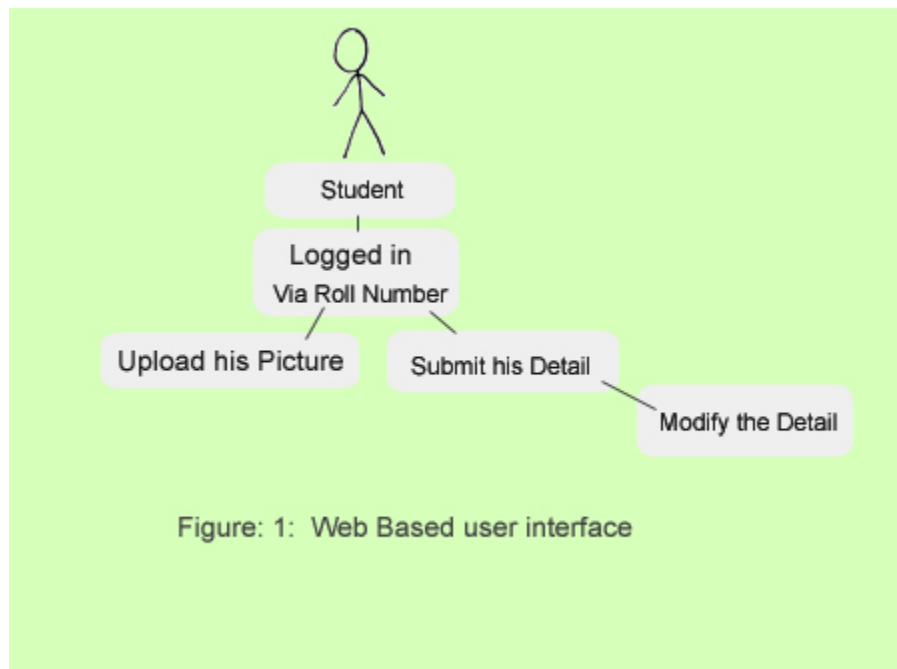
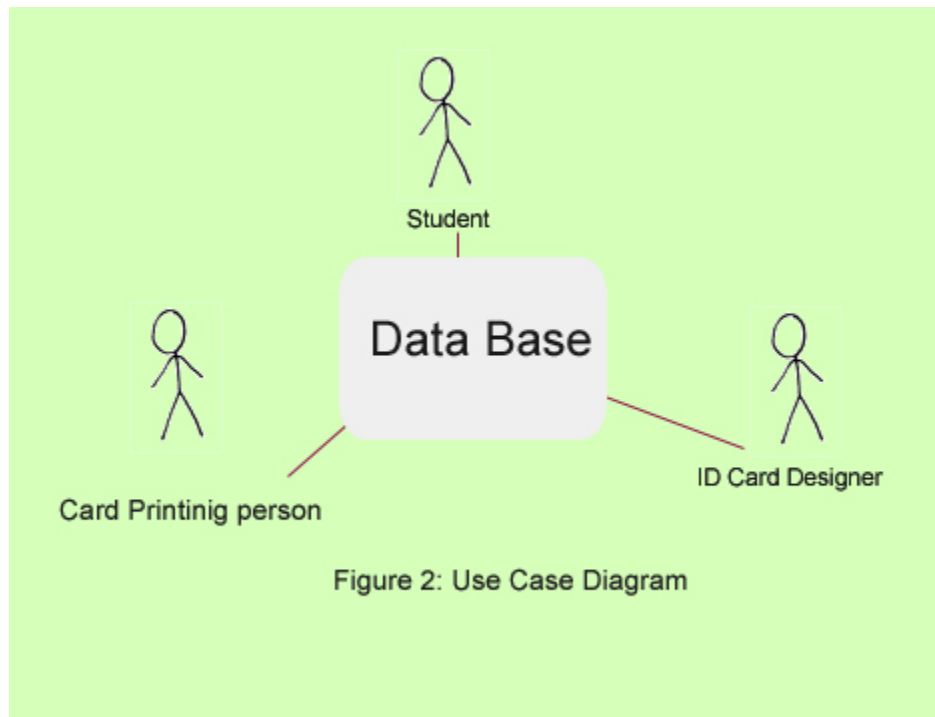


Figure: 1: Web Based user interface

The interface allows a user to interact and access the form, and then he will fill the all related information and then submit them in the database so that the ID card designer and printing person print the card.

## 2.4 Operations:

The system allows 3 Types of users to access this system, the student who submits his information in the data base. ID card designer gather the information from the data base and design the new fresh ID card according to the given detail, provided by the students. And third users of this system are the person who will print the designed ID card, in their printing press. They will get the designed ID cards from the Data base and print out all these cards.



## 2.5 Constraints:

There are following constraints:

- Java GUI Interface
- Compatible PC

- Database (MySQL)
- Operating System (Microsoft Windows Xp)
- Internet explorer. Or any other web browsers, like Firefox, Opera etc.
- Graphic Designing software for the Designer
- Printing application for the printing of ID card.

### **SECTION 3: Specific Requirements for Proposed system**

#### **3.1 Functional Requirements**

The following defines the Functional Requirements for the project:

##### **3.1.1 User Logging in:**

- SRS01          System has a Login facility for the students, provided by the university
- SRS02          Login system of the system should be user friendly.
- SRS03          System should restrict the other who is not the university student (stop the student who is without roll numbers and password).

##### **3.1.2 Media Processing**

- SRS04          System should have the simple form by which student give their detail for creating new ID card.
- SRS05          System should create a simple form of the ID card after gather the information from the students
- SRS06          System should get the only necessary information from the students
- SRS07          Student can modify their information if he missed any field. On first try
- SRS08          System should be developing in such a way that the student can easily upload their photograph in the data base.

### 3.1.3 Database

- SRS09 System should store all information on resource and student details in a database
- SRS10 ID card designer and printing staff should easily gather the information from the data base.

## 3.2 Non-Functional Requirements

### 3.2.1 Performance:

- SRS11 The system shall support up to 20 concurrent borrowing sessions.

### 3.2.2 Login & Password

- SRS12 The system requires the students to identify by using a login ID and a password when accessing the web based service.

### 3.2.3 Access Permission

- SRS13 System should be design in such a way that only student can access the student's detail submission form, No third person can access to the form. And only the ID card designer should get the access to that detail which has been submitted by the students
- SRS14 The system shall provide the capability to backup the database.
- SRS15 The system shall be available 99.9% of the time.
- SRS16 The system shall support barcode systems which should be printed on the students ID cards.
- SRS17 The ICMS shall be flexible and adaptable due to future plans of expanding the system to other ID Card Management Systems.

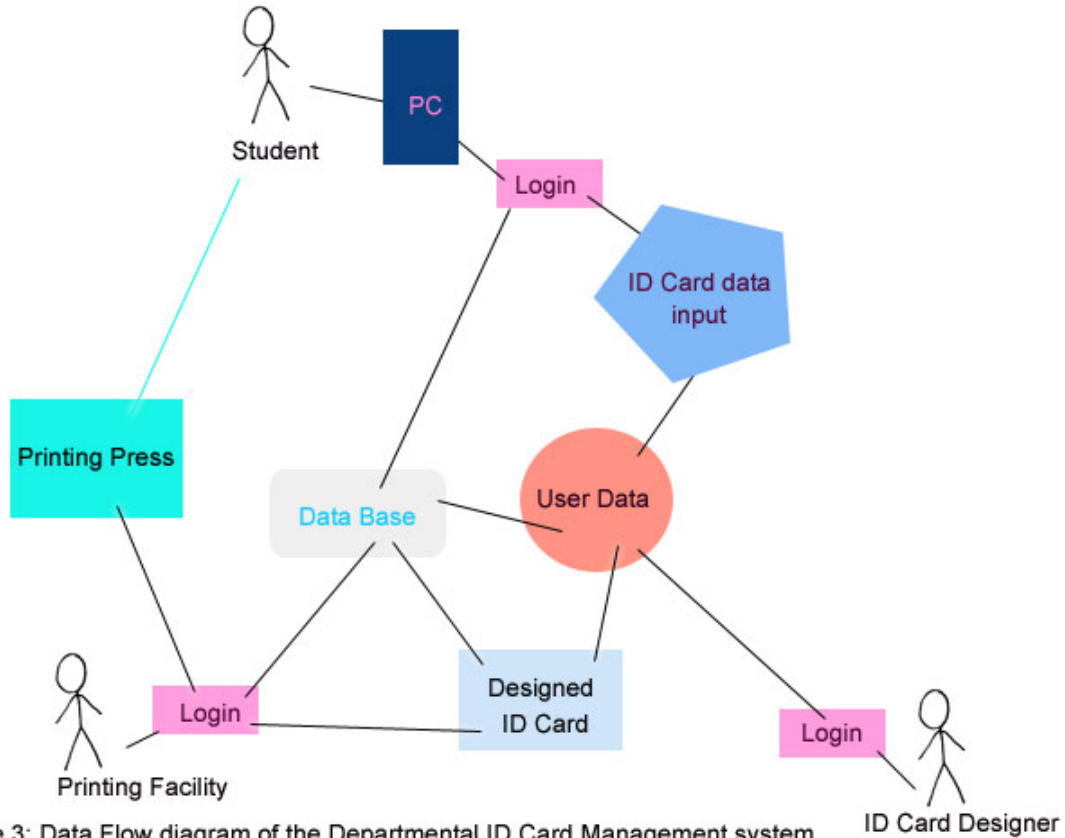


Figure 3: Data Flow diagram of the Departmental ID Card Management system