**Object oriented software engineering**

**Assignment no. 2**

**SRS document**

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**1. INTRODUCTION**

**1.1 PURPOSE**

The purpose of this document is to build an online system to manage the enrollnment and allocation of courses for students with ease of their appropriate required teachers and sections.

**1.2 DOCUMENT CONVENTIONS**

This document uses the following conventions.

|  |  |
| --- | --- |
| DB | Database |
| DDB | Distributed Database |
| ER | Entity Relationship |

**1.3 INTENDED AUDIENCE AND READING SUGGESTIONS**

This project is a prototype for the course allocation system and it is restricted within the university premises. This has been implemented under the guidance of university professors. This project is useful for the university students ,faculty members and as well as to the admin staff.

**1.4 PROJECT SCOPE**

The purpose of the online course allocation system is to ease course enrollnment and to create a convenient and easy-to-use application for students, trying to do online enrollnment. The system is based on a relational database with its courses management and reservation courses. We will have a database server supporting hundreds of students around the university. Above all, we hope to provide a comfortable user experience along with the best functionality available.

**1.5 REFERENCES**

* Fundamentals of database systems by ramezelmarsi and shamkantb.navathe

**2. OVERALL DESCRIPTION**

**2.1 PRODUCT PERSPECTIVE**

* **User Role**
* **Student Student can search all the information about the colleges. Student can search**

**all the information about the courses. Student can view all the report. Student can give the feedback. Student can view merit list.**

* **Admin Admin will manage college information and also add ,update , delete the information. Admin will manage course information and also add , update ,delete the information . Admin will manage all the user query and provide the solution. Admin will manage merit list. Admin can generate reports.**

**2.3 USER CLASS and CHARACTERISTICS**

**It is manual one in which students has to search for the college from manually from newspapers and by going to the college to get details of the college. It is difficult to get the information about group of college offering the related course which is desired by the student who is newly entering into the college. Updates of college Details is difficult to maintain**

ADMINISTRATIVE  
• Add/Delete a course  
• Add a new section  
• Have logins and password can access others than own

• Update sections ,seats and courses.

STUDENT  
• Add/Delete a course  
• change the section  
• drop the course  
• have logins and password cant access others than own

TEACHER  
• upload and updateattendence  
• upload and update results and grades  
• have logins and password cant access others than own

**2.4 OPERATING ENVIRONMENT**

Operating environment for the course allocation system is as listed below.   distributed database

* client/server system
* Operating system: Windows.
* database: sql+ database
* platform: vb.net/Java/PHP

**2.5 DESIGN and IMPLEMENTATION CONSTRAINTS**

1. The global schema, fragmentation schema, and allocation schema.
2. SQL commands for above queries/applications
3. How the response for application 1 and 2 will be generated. Assuming these are global queries. Explain how various fragments will be combined to do so.
4. Implement the database at least using a centralized database management system.

**4. EXTERNAL INTERFACE REQUIREMENTS**

**4.1 USER INTERFACES**

* Front-end software: Vb.net version
* Back-end software: SQL+

**4.2 HARDWARE INTERFACES**

* Windows.
* A browser which supports CGI, HTML &Javascript.

**4.3 SOFTWARE INTERFACES**

Following are the software used for the online course allocation system.

|  |  |
| --- | --- |
| **Software used** | **Description** |
| Operating system | We have chosen Windows operating system for its best support and user-friendliness. |
| Database | To save the course records, student records we have chosen SQL+ database. |
| VB.Net | To implement the project we have chosen Vb.Net language for its more interactive support. |

**4.4 COMMUNICATION INTERFACES**

This project supports all types of web browsers. We are using simple electronic forms for the allocation forms, and all other features.

**4 system feature**

This system provide student to enroll their course in efficient way. This is suitable for students to feel free in their course allocation

**4.1 Function Requirement**

* Total site will be dynamic
* Login and logout feature
* Different login dash for student and teachers
* Admin can offer course
* Enrollment option for students
* Student can enroll only those subject which are offer by admin
* Login and set password for individual student
* Attendance show to student
* Upload and update attendance option for teacher
* Student can see their result
* Withdraw course option for student
* Freeze semester option for student.

**5. Other Non Function Requirement**

**5.1 Performance Requirement**

Accounding to customer requirement. All features for student and teachers must fulfill. The software should have all the features that the customer required from the system

**5.2 Safety requirement**

* Section become overload
* Student doesn’t enroll course whose pre rank are not being studied
* Any fault occur during course enrollment

**5.3 Security Requirement**

* Students records are secure
* Not body hack other student login
* Teacher login are secure
* Student not access teacher login

**5.4 Quality Attributes**

Software should be reliable, flexible, reusable, maintainable,

Robustness

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