**SOFTWARE REQUIREMENT SPECIFICATION FOR ONLINE COURSE RESERVATION SYSTEM**

**1.0. INTRODUCTION**

Online Course Reservation System is an interface between the Student and the Registrar responsible for the issue of Course. It aims at improving the efficiency in the issue of Course and reduces the complexities involved in it to the maximum possible extent.

This Online Course Reservation System is a web-based program aimed to make easier and more convenient the class registration process, a hassle through which students go every semester. Online Course Reservation System attempts to reduce these hassles by providing several services to students through the internet.

**1.1 PURPOSE**

If the entire process of 'Issue of Course' is done in a manual manner then it would

takes several months for the course to reach the applicant. Considering the fact that the

number of applicants for course is increasing every year, an Automated System becomes

essential to meet the demand. So this system uses several programming and database

techniques to elucidate the work involved in this process.

Also, this Online Course Reservation System provides a way to search for classes without having to open acourse catalog, a way to “shop” around and view various possibleschedules, and finally, officially register for the chosen classes.

**1.2 SCOPE**

The System provides an online interface to the user where they can fill in their

personal details and submit the necessary documents (may be by scanning).

The Registrar concerned with the issue of course can use this system to reduce his

workload and process the application in a speedy manner.

Provide a communication platform between the Student and the Registrar.

**1.3 DEFINITIONS, ACRONYMS AND THE ABBREVIATIONS**

Registrar

Refers to the super user with the privilege to manage the entire system.

Applicant

One who wishes to register the Course

OCRS

Refers to online Course Reservation System.

HTML

Markup Language used for creating web pages.

J2EE

Java 2 Enterprise Edition is a programming platform java platform for developing and

running distributed java applications.

HTTP

Hyper Text Transfer Protocol.

TCP/IP

Transmission Control Protocol/Internet Protocol is the communication protocol used

to connect hosts on the Internet.

**1.4 REFERENCES**

IEEE Software Requirement Specification format.

1.5 TECHNOLOGIES TO BE USED

• HTML

• JSP

• Javascript

• Java

**1.6 TOOLS TO BE USED**

• Eclipse IDE (Integrated Development Environment)

• Rational Rose tool (for developing UML Patterns)

**1.7 OVERVIEW**

SRS includes two sections overall description and specific requirements

Overall Description will describe major role of the system components and inter-

connections.

Specific Requirements will describe roles & functions of the actors.

**2.0 OVERALL DESCRIPTION**

**2.1 PRODUCT PERSPECTIVE**

The OCRS acts as an interface between the 'Student' and the 'Registrar'. This system

tries to make the interface as simple as possible and at the same time not risking the security

of data stored in. This minimizes the time duration in which the user receives the course.

**2.2 SOFTWARE INTERFACE**

• Front End Client - The Student and Registrar online interface is built using JSP and

HTML. The Administrators's local interface is built using Java.

• Web Server – Tomcat Apache application server (Oracle Corporation).

• Back End – Oracle 11g database.

**2.3 HARDWARE INTERFACE**

The server is directly connected to the client systems. The client systems have access

to the database in the server.

**2.4 SYSTEM FUNCTIONS**

• Secure Reservation of information by the Students.

• SMS and Mail updates to the students by the Registrar

• Registrar can generate reports from the information and is the only authorized

personnel to add the eligible application information to the database.

**2.5 USER CHARACTERISTICS**

• Applicant - They are the person who desires to obtain the course and submit the

information to the database.

• Administrator - He has the certain privileges to add the course status and to

approve the issue of course. He may contain a group of persons under him to verify

the documents and give suggestion whether or not to approve the dispatch of course.

**2.6 CONSTRAINTS**

• The applicants require a computer to submit their information.

• Although the security is given high importance, there is always a chance of intrusion

in the web world which requires constant monitoring.

• The user has to be careful while submitting the information. Much care is required.

**2.7 ASSUMPTIONS AND DEPENDENCIES**

• The Applicants and Administrator must have basic knowledge of computers and

English Language.

• The applicants may be required to scan the documents and send