**EXAM REGISTRATION SYSTEM**

**AIM**: To create a system to perform the Exam Registration system

(I)SOFTWARE REQUIREMENT SPECIFICATION:

**1.0 INTRODUCTION**

Exam Registration System is an interface between the Student and the Exam Controller responsible for the Issue of Hall Ticket. It aims at improving the efficiency in the Issue of Hall ticket and reduces the complexities involved in it to the maximum possible extent.

**1.1 PURPOSE**

If the entire process of 'Issue of Hall ticket' is done in a manual manner then it would takes several days for the hall ticket to reach the student. Considering the fact that the number of students for hall ticket 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. As

• The admin concerned this is a matter of National Security, the system has been carefully verified and validated in order to satisfy it.

**1.2 SCOPE**

• The System provides an online interface to the user where they can fill in their personal details and register for the exam. with the issue of hall ticket 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 admin.

• Students will come to know their status of application and the date of exam.

**1.3 DEFINITIONS, ACRONYMS AND THE ABBREVIATIONS**

• Exam Controller - Refers to the super user who is the Central Authority who has been vested with the privilege to manage the entire system.

• Student - One who wishes to obtain the Hall Ticket.

• ERS - Refers to this Examination Registration System.

• HTML - Markup Language used for creating web pages.

• HTTP - Hyper Text Transfer Protocol.

**1.4 REFERENCES**

IEEE Software Requirement Specification format.

**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 ERS acts as an interface between the 'student' and the 'Admin'. 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 hall ticket.

**2.2 SOFTWARE**

INTERFACE Client - The exporter online interface is built using Django framework.

 Web Server – Django Development Server

 Back End – sqlite db

**2.3 OPERATING ENVIRONMENT**

 The ERS Software is developed to work on all Java enabled web browsers. It’ll work on all

Operating systems and requires an Internet connection.

**2.4 SYSTEM FUNCTIONS**

• Secure Registration of information by the Students.

• Admin can generate reports from the information and is the only authorized personnel to add the eligible application information to the database.

**Validity Checks:**

Javascript provides validity checks for various fields in the forms.

**Sequencing Information:**

All the information regarding exam details, student list, question details, display of result should be handled sequentially that is data should be stored only in a particular sequence to avoid any inconvenience

**Error Handling:**

If any of the validations or sequencing flows does not hold true then appropriate error messages will be prompted to the user for doing the needful.

**2.5 USER CHARACTERISTICS**

• Student - They are the people who desire to obtain the hall ticket and submit the information to the database.

• Admin- He has the certain privileges to add the registration status and to approve the issue of hall ticket. He may contain a group of persons under him to verify the documents and give suggestion whether or not to approve the dispatch of hall ticket.

**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 Students and Exam Controller must have basic knowledge of computers and English Language.

• The student may be required to scan the documents and send.

**2.7 ASSUMPTIONS AND DEPENDENCIES**

1.The users have sufficient knowledge of computers.

2.The remote computer should have Internet connection and Internet server capabilities.

3.The users know the English language, as the user interface will be provided in English

**3. Specific Requirements**

**3.1. External Interface Requirements:**

**.**This section provides a detailed description of all inputs into and outputs from the system. It also gives a description of the hardware, software and communication interfaces and provides basic prototypes of the user interface.

**3.1.1 User Interfaces:**

**1. Registration Screen**

Various fields available on this screen will be: Login Name, Email Id, Password

**2. Login Screen**

Fields available on this screen are: Login id, Password

**3.Entering Questions**:

Various Fields are: Questions ,Options ,Correct Answer

**4.Exam Details Screen:**

Various Fields are: Exam Name ,No. Of Questions ,Time Limit +ve, -ve Marks ,Passing Marks

**5.Student List Screen:**

Various Fields are: \*Student ID \*Student Name

**6.Student Taking Exam Screen:**

Various Fields are: Display Of Question With Options ,Control Buttons To switch questions

**7.Result Displaying Screen:** Various Fields are: No. Of Correct Questions ,No. Of Incorrect Questions ,No. Of Unattempted Questions. ,Total Marks.,Result(Pass/Fail)

**3.1.2 HARDWARE INTERFACE**

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

 Support for printer for printing results then and there.

**** Screen resolution of at least 800X600 is required for proper and complete viewing of screens. Higher resolution will be accepted.

**3.1.3 SOFTWARE INTERFACE**

**TECHNOLOGIES TO BE USED**

• HTML

• Python

• Django framework

 CSS

 JAVASCRIPT

**TOOLS TO BE USED**

• Pycharm IDE (Integrated Development Environment)

• Visual Paradigm (for developing UML Patterns)

**3.2. FUNCTIONAL REQUIREMENTS:**

It deals with the functionalities required from the system which are as follows:

The website will help the colleges/organizations/companies to conduct their student registration.

Only authorized person can access related details.

Organizations can change their information regarding themselves.

The students can login through ID and PASSWORD.

Administrator will be responsible for updating the site.

**Use Case 1**:**Authenticate**

*Primary Actor:* Student/Faculty

*Pre-Condition*: Nil

*Post-Condition*: Fetch and load the details of the user

*Main Scenario:*

1. Start the application. User prompted for login and password.

2. User gives the login and password.

3. System does authentication.4. Selection screen is displayed.

*Alternate Scenario:*

5(a). Authentication fails

5(a)1. Prompt user about wrong password

5(a)2. Allow user to re-enter the password

**Use Case 2: Registration**

*Primary Actor*: Student/Faculty

*Pre-Condition*: Student/Faculty selected the desired course.

*Post-Condition*: Store details in database.

*Main Scenario*:

1. Student/Faculty fills in the other details

2. Registers for the selected course.

*Alternate Scenario*:

3(a).Registration fails.

3(a)1. System asks the user to re-enter the details.

4(a). Connection gets terminated.

4(a)1.System redirects the user to Login or Selection Page

**Use Case 3: Take Test**

*Primary Actor*: Student, System

*Pre-Condition*: Student enrolled in that course

*Post-Condition*: Store details in database

*Main Scenario*:

1.Questions are selected randomly and given to the student

2.Student submit the answers

3.System evaluates the answers

4.System displays result of the student

*Alternate Scenario*:

None

**Use Case 4: Feed Questions**

*Primary Actor*: Faculty, System

*Pre-Condition*: Faculty selected the desired course.

*Post-Condition*: Store details in database.

*Main Scenario*:

1.Faculty Provides the questions and answers to the questions

2.System stores the details in database

*Alternate Scenario*:

None

**3.3. PERFORMANCE REQUIREMENTS**

This subsection specifies numerical requirements placed on the software or on the human interaction with the software, as a whole..Numerical requirements will includeOnly text information will be supported(HTTP).

All the transactions will be processed within seconds.

300 terminals will be supported at a time

**3.4 DESIGN AND IMPLEMENTATION CONSTRAINTS**

1.The university information & communication system must be compatible with all the Web browser, Internet Applications and platform independent.

2.The software should be connected to web server which runs 24x7.

3.The user accessing the system from any computer must have an internet

connection with all browsing capabilities.

4.GUI is available only in English