**SOFTWARE REQUIREMENT SPECIFICATION**

**ONLINE EXAM REGISTRATION SYSTEM**

1. **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.

# PURPOSE

If the entire process of 'Issue of Hall ticket' is done in a manual manner then it will 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 reduce this complexity. So this system uses several programming and database techniques to make clear the work involved in this process.

# 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 controller concerned 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 controller.
    - Students will come to know their status of application and the date in which they must subject themselves for manual document verification.

# DEFINITIONS, ACRONYMS AND THE ABBREVIATIONS

* + - **Exam Controller** - Refers to the user who manages 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.
    - **IBM-**International Business Machines

# REFERENCES

IEEE Software Requirement Specification format.

# TECHNOLOGIES TO BE USED

* + - HTML
    - CSS
    - Java script
    - Flask – Python

# TOOLS TO BE USED

* + - Python Platform
    - IBM (for developing UML Patterns)

# 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

* 1. **PRODUCT PERSPECTIVE**

The ERS acts as an interface between the 'student' and the 'exam controller'. 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.

# SOFTWARE INTERFACE

* + - **Front End Client** - The exporter online interface is built using JSP and HTML.
    - **Web Server** – Apache web server
    - **Back End** – My-sql

# HARDWARE INTERFACE

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

# SYSTEM FUNCTION

# 2.4.1 SIGNUP & SIGNIN

# New users(students) should signup their account on webpage for their detail verification only.

# Registered users can signin to their account directly and they view the status of their Application also.

# Here the students are the applicants.

# 

# 

# 2.4.2 STUDENT REGISTRATION

# Personal Details

# At the same time, they are asked to give their personal information to exam controllers

# Details like student photo, phone number, signature, father’s name ,occupation, Mother’s Name ,Date of Birth , Native ,Caste , Nationality ,Religion ,alternative Mail-ID and residential address.

# Photo scanned should not exceed the given dimension and file size(Compressed).

# 

# Exam Details

# Student should be eligible for the exam registration.

# So the students are prompted to give information about their Qualification which is processed later for their eligibility.

# Qualification details like 10th & 12th mark & percentage, CGP upto their current semester or CGPA (already completed degree) and marksheet number.

# And additional Qualifications like type writing skills and also other courses the particular student have done, what extend have they done and their special grade in that course.

# 

# Course Registration Details

# List of all available exam courses are displayed in an alphabetical order.

# Students may select the course on which they are going to attend the exam.

# And also for the chosen course the controller checks for the eligibility (Qualification) of the student.

# Then the student can give the information about the nearest city or town as a exam center (Multiple city or town) for the convenience of attending the exam.

# The controller validates the city or town given by the student.

# According to the info given by the student , the main centers are allotted.

# Acknowledgement

# Uploading all details successfully ,the applicants can able to check their details whether the given information given are true and correct to their knowledge.

# 

# Payment

# Amount(fee) will be allotted for the individual exam.

# Only online payment like mobile banking or by using debit card is allowed ,no other cash payment.

# Only if the payment is successful , the exam will be registered and for the security reasons payment ID is generated.

# 2.4.3 VIEWING PROFILE

# After individual profile creation(Creating Account) the student can view and edit their profile anytime.

# Updates and Announcements are passed through the Homepage(Before Login Page)

# 2.4.4 APPLICATION STATUS

# After every successful exam registration the status of the application is uploaded for every day.

# The applicants can view the status of their application anytime.

# 2.4.5 ISSUE OF HALL TICKET

# When successfully the application is processed, the hall tickets are issued through online to the students registered account.

# Student can download the hall ticket.

# The confirmed exam center,date and time are mentioned in hall ticket.

# USER CHARACTERISTICS

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

# 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.

# 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.

# USECASE DIAGRAM:

The Exam Registration use cases in our system are:

* 1. Login
  2. View exam details
  3. Register
  4. Acknowledgement
  5. Fee Processing

# ACTORS INVOLVED:

1. Student
2. System DB
3. Bank