

Software Requirement Specification

Project Title : Online Result Automation System
Team Title : Chalukya team
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INTRODUCTION

The purpose of this section is to provide the reader with general, background information about the software “Online Result automation system”.

The Main objective of the Project is to provide online Result and detailed information to the students who are studying in an Educational organization. We are trying to develop software that will provide instant data delivery. This can be achieved through World Wide Web.

PURPOSE

The document is the Software Requirement Specification for Online Result automation System.

The SRS describes the functions and performance requirements of the Online Result Automation System. This is a database project which maintains the information of a typical educational institute, like website of a university. In our project development we considered VTU as a typical educational institution which maintains student database.

As concerned to scope of the product, it is essential element for education institutes, Universities, Educational Organization, Schools, and Collages .The product will avoid the Burden of hard copy entry .It will also provide data security as we are using the

Secured data bases for maintaining the documents (database).We can also conserve the time and human resources for doing the same task. The data can be maintained for longer period with no loss of data.

DOCUMENTATION CONVENTIONS

Throughout this documentation, the following conventions have been used :-

- **Fonts** : Times New Roman
- Size 16 For Main Headings
- Size 14 For Sub Headings
- Size 12 For the Rest of the Document
- Words in Bold are important terms, and have been formatted to grab the attention of the reader.

INTENDED AUDIENCE AND READING SUGGESTIONS

This document is meant for users,developers, project managers,testers,and documentation writers. The SRS document aims to explain in an easy manner, the basic Idea behind the Online Result Automation System and how the developers aim to achieve their goals.It also aims to introduce to the users the main features of the Online Result Automation System.

SCOPE OF THE DEVELOPMENT PROJECT

This document is intended for all the users to understand the usage and maintenance of the product who will know about the basic knowledge of computer. Database maintenance and steps to follow authentication to become a registered user for the product. The user having the basic knowledge of internet can get the information about the students, the achievements of the students and also the detailed information about the internal marks and annual marks of student, percentage of attendance and much more.

In our project we are giving the information globally is a powerful tool which allows the students and parents to know the results. Another key feature of the software is that it provides detailed information of the student along with internal marks, Percentage of attendance, and SEM result also.

DEFINITIONS, ACRONYMS, AND ABBREVIATIONS

REFERENCES

1. Php, Mysql and Apache by Julie C. Meloni, Pearson Education
2. Open source web development with LAMP by James lee and Brent ware
Addison Wesley/Person Education Inc.2003
3. Fundamentals of Database systems by Ramez Elmasri and Shamkant B.Navathe
4. JavaScript And JScript by Jaworski, bpb publications

We collected the material from the web sites

1. www.Gogle.co.in
2. www.codeproject.com
3. www.programmersheaven.com
4. www.php.com
5. www.mysql.com
6. and also we are referring some of the tutors(Html, java script ,Perl)

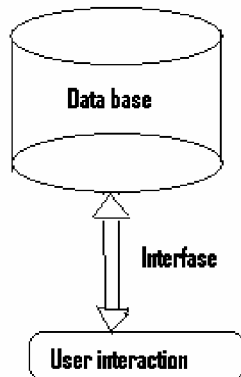
OVERVIEW OF DOCUMENT

For the rest of the document, we first of all have defined the overall product. Then, we have given the software requirements, followed by a brief description of the product components and features. In the last section, we have provided the non Functional requirements of the product.

OVERALL DESCRIPTION

PRODUCT PERSPECTIVE

Online Result automation system is a standalone system. It aims to replace the existing website by providing an enhancement over their existing features. Thus, our project is a self contained database project for the Linux environment.



PRODUCT FUNCTIONS

- Allows the user to know the online results of the students
- percentage of attendance
- Internal marks
- some brief information about college and students is provided
- For the students who are failed in the exam the Re-Exam is conducted
And that date information is given.

USER CLASSES AND CHARACTERSTICS

Our intention is to provide the information to various classes of user

1. Normal user who have the knowledge of Browsing the website
2. Administrators will follow some constraints to change the database
3. Security is provided using secured database(SQL)

OPERATING ENVIRONMENT

Client Side Requirement :

OS	: Linux ,win-xp
Software Packages	: Mysql,Apache server, web browser,php (LAMP)

Server Side Requirements :

OS	: Linux
Software Packages	: Mysql, Apache server, web rowser, php Server (LAMP)

DESIGN AND IMPLEMENTATION CONSTRAINTS

Due to the lack of time, we are unable to make it as interactive as possible.

USER DOCUMENTATION

To assist the user in understanding the product better and to assist them in better Utilization of the product and its features, we will be providing an interactive user interface (in HTML format). We also will be giving a link to the users where they can Know the Current activities of the university, information about the sports, Forth coming events of the University, Information regarding higher education like MTEC, MCA, PHD etc. we are providing a E-mail address of the software developers the user can send queries and suggestions regarding project.

ASSUMPTIONS AND DEPENDENCIES

We are assuming that the users will not use our product to download copyright and pornographic material. Also, we expect that the users not only use the software to download resources, they will also be uploading files and resources for being Downloaded by other users. We also assume that product users will not upload files Containing malicious software like viruses, worms and spy bots etc.

OVERVIEW OF DATA REQUIREMENTS

Student's information is stored in mysql the authority is given to Administrator; he gives the permission to instructor to enter the department data and student information. The security is providing by giving password to each instructor.

GENERAL CONSTRAINTS, ASSUMPTIONS, DEPENDENCIES, GUIDELINES

This product is a web based application meant for the Linux and Win-xp environment. Since it is web based, a major constraint on the performance will be due to the bandwidth of the client's web connection. A faster bandwidth will result in faster downloads. Another major requirement is that the users also download data and files from the network. The Administrator will upload the student information through the network, the whole system acts like centralized server client side should have efficient bandwidth to handle it. The product is Mother Server dependant, and so if due to some reason the Mother Server crashes, the whole network will crash.

USER VIEW OF PRODUCT USE

The front page of the product contains college name, photo and also contains information about the college, Academics information, Brief information about sports, and calendar of events of the year. It contains the administrator login who have direct login to the data. Administrator must enter his name and password.

EXTERNAL INTERFACE REQUIREMENTS

USER INTERFACE:

When the user trying to access the information of the student or department which is not existing appropriate error information is displayed. At the time when administrator logs in to the system user name and password is asked, if it is valid allowed him/her to proceed. If he/she is invalid user appropriate error message is displayed.

HARDWARE INTERFACE

SOFTWARE INTERFACE

SYSTEM FEATURES

Logging

There will three form of logging provided by the system. First logging will be a New user to register, from which user will provide certain details about himself to Facilitate efficient configuration of the system. Second form of logging will be for existing user to log on to the system. Third form of logging will be for anonymous user to enter the system but with certain restricted functions.

Searching

The user will be able to find the file he/she requires through the various files madeAvailable to the website by Administrators of all colleges to users. The system will show all the results available after search operation in a tabular form.

OTHER NON-FUNCTIONAL REQUIREMENTS

PERFORMANCE REQUIREMENTS

At any instance of time any number of users can access the website and download the information required.

SAFETY REQUIREMENTS

The responsibility of the material to be shared lies with administrators of each college and he will be responsible for the material which he uploads.

SECURITY REQUIREMENTS

The safety part of the system will be based on the facilities provided by the OS and the inherent security features provided by the operating system.

SOFTWARE QUALITY ATTRIBUTES

BUSSINESS RULES

The basic fact here is the material for upload and download is totally dependent on the user's discretion and network has no responsibility for that matter. It only provides a medium of transport. It's up user's sense of morality in which manner he exploits the system