Software Requirements Specification

for

CSE Digital Notice Board

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version
Ariful Islam	1.5.18	Initial Version	0.1

1. Introduction

1.1 Purpose

The purpose of this document is threefold:
1. To explain the process by which the preliminary requirements from Dept of CSE Notice Board were analyzed and refined
2. To state the requirements for the CSE Digital Notice Board System in a way that allows tracing from the original (ambiguous, unrefined) form to the analyzed and refined form.
3. To show the analysis of the requirements (dependencies, issues resolved, how the requirements have been understood, etc.)

Therefore, this document is more than a requirements specification – it is also a statement of how the requirements were derived from the input, and how the requirements relate to each other.

1.2 Document Conventions

This Document was created based on the IEEE template for System Requirement Specification Documents.

1.3 Intended Audience and Reading Suggestions

The document is intended for, such as developers, project managers, users, testers, and documentation writers. This subsection contains definitions of all the terms, acronyms, and abbreviations used in the document. Terms and concepts from the application domain are defined. This document is laid out in a modified IEEE830-1998 style. The biggest difference from the standard is the addition of section 4, which describes the process used to produce this document. The following information is in this document:
- Section 2: General description of product, including user interface screen shots, dependency analysis, and enterprise requirements.
- Section 3: Functional & Non-functional requirements. Note that all non-functional requirements are grouped into one category, and not distributed among categories, as in IEEE830. Section 3 also covers use cases and deleted requirements.
- Section 4 describes the requirements analysis process.

1.4 Product Scope

The product is a software application which is accessed from a web browser and used to display CSE notices in a digital platform.

1.5 References

www.juniv.edu/cse

2. Overall Description

2.1 Product Perspective

This software is the very initial version of the project based on these idea of displaying all the departmental notice in online platform format.

2.2 Product Functions

Product has 2 functionalities:

1. for admin
2. For user

Admins can update and upload resources on the software. And the users can view those resources.

2.3 User Classes and Characteristics

Admin Class and User Class are two major classes of the software project. Admin class has password special to maintain the running notice board and upload resources and User class get access to know about the information.

2.4 Operating Environment

The software needs to be run on different platforms. Like windows, linux, android ios and other mobile platforms also.

2.5 Design and Implementation Constraints

There are a number of constraints which the system must abide by during development. The system must be developed within their bounds. These constraints dictate a number of the functional and nonfunctional requirements specified by this document. Others are because of a requirement specified to us by our customer. All are important to be aware of during the implementation of the software system.

- o System is to be developed for distributed use as a web application. This will limit the ability for real time updates to the system.
- o System is to be developed in Java through Servelets and JSP pages.
- o Data must be stored in a relational database for quick queries and storage.
- o Passwords must be sent and stored in encrypted form.
- o Some users are authorized users while some are non-authorized users. Non-authorized users can not see other user's preference and exclusion sets.

2.6 User Documentation

User manuals, on-line help, and tutorials these are different kind of documentations that will be available with the software.

2.7 Assumptions and Dependencies

 System will be installed on a machine running Windows operating system, Tomcat and mySQL 5.0 or newer. This will be a always online software so adequate data connection is assumed to be in place.

3. External Interface Requirements

3.1 User Interfaces

The user interface will have 1 big area on the screen to show all th notices according to their date of upload. Important notices will get starred so that people can easily notice those.
Login and Registration option will also be given.

3.2 Hardware Interfaces

No extra hardware Is needed only regular laptop, computer , mobile devices will suffice. The minimum hardware requirements of the software are a 500 Megahertz CPU and 128 megabytes of RAM.

3.3 Software Interfaces

Java must be installed before using this software. Because this software is being developed in java framework.

3.4 Communications Interfaces

This software will use http/ftp communication medium over the internet(www). The software requires an internet connection to install new plugins, update already installed ones and update some of its components (APIs, modules etc.).

4. System Features

Below illustrates organizing the functional requirements for the product by system features, the major services provided by the product.

4.1 User login/register management

This allows the users all teachers students other to have access to the web application software.

4.2 Notice Showing

All the notices will be in pdf format. So after being uploaded by the moderator of the software. Notices are shown on the specific web area alloted for Notice board showing.

4.3 Favourite notice

The users can have a list of their favourite / essential list necessary notices which they might need in a very near future for reuse.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

The software requires a system with at least a 500 megahertz CPU and 128 megabytes of RAM. The faster the internet speed, the faster the notice board home page will get loaded.

5.2 Safety Requirements

To ensure that no one of software's users loses any data while using the software (due to a crash or a bug of some kind) the developer team updates CSE Notice Board regularly. There is a bug tracker available where users can report any bugs they have encountered so that the developers can fix it in the next release

5.3 Security Requirements

Gephi does not have any security requirements and thus any type of user can use it without any additional privileges.

5.4 Software Quality Attributes

Gephi provides the users with both simple and advanced features. Due to its well designed and easy to use interface it can be used by both experts and typical users. However, users must already have a basic knowledge of graphs before using it.

6. Other Requirements

CSE Notice Board provides the users with both simple and advanced features. Due to its well designed and easy to use interface it can be used by both experts and typical users.

Appendix A: Glossary

Java : a high level programming language
Mysql : modern DBMS