# Software Requirements Specification

# for

# Nu Newsletter

Version 0.1

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Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason for Changes** | **Version** |
|  |  |  |  |
|  |  |  |  |

# Introduction

## Purpose

To make a dynamic web application for NIIT newsletter. Here a lay person who have proper credentials can upload, post and can delete a post.

The user classes are:

## Document Conventions

CIC- center of industrial collaboration

Anukriti- newsletter of NIIT university

xaamp- a software uses to host your sites locally

UI-user interfaces

## Intended Audience and Reading Suggestions

* Anukriti
* CIC
* NU library

## Product Scope

The tentative software we thought of is WordPress where it provides us a relevant per-defined theme and easier to maintain.

The other methods are:

* php using xaamp for storing database

Here the user may be confused that we are making a similar web application providing functionality of social site like Facebook page, but we are strictly having one group of admins to upload and make changes and here a user like nu student can only view the content.

## References

1. Current newsletter site of NU
2. IEEE srs document

# Overall Description

## Product Perspective

Though there is an existing nu newsletter but a lay person without a technical background cannot make changes in the site. In the current site a admin has to go to the code make necessary changes inside the code itself to view the changes where it is a hectic task and the committee member have to contact the admin every time the need to make changes and have to upload the newsletter. Here the view of the newsletter is in the form of pdf.

So, we want to completely change this static site a dynamic one where it is easier to make changes in the site and view is preferably significant.

## Product Functions

The basic tentative functionalities are:

* search function
* upload
* remove
* change UI frequently
* create different views for different set of users

## User Classes and Characteristics

* Content writer
* Anukriti(student group)
* CIC
* NU library
* Content reader
  + nu student
  + nu staff
  + nu faculty
  + guest
* administrator
  + - Anukriti Head

## Operating Environment

System having browser which support latest php.

## Design and Implementation Constraints

Availability of server may be one of the most opposing force followed by user greediness.

## User Documentation

User documentation is provided in web format so that it is relevant and easy to use.

## Assumptions and Dependencies

Until the server is running the project will run fine in any browser.

# External Interface Requirements

## User Interfaces

The system is made with basic and interactive user interface where user can update themselves about what is happening in NU and administrators can update the content.

## Hardware Interfaces

For building purpose, we are using basic web-port to run and later we will host in some free service like firebase. The user can navigate through pages via a click on the tab either by mouse or on the screen.

## Software Interfaces

Any Operating system which support a Web browser. For running and adding the content a form which collects and can be displayed to the user. We use php for building the software.

## Communications Interfaces

A web browser which support latest php and stable internet connection.

# System Features

Here you will know the system features and the action included in it.

## General Feature

4.1.1 Stimulus/Response Sequences

Online user can view and read the content of the site. The site contains various sections like

Special Events, Campus News, Theme (in Quarterly issues), Expressions, Achievements,

Research (If Required), Faculty Research (If Required), Recruitment (If Required), Obituary

(If Required), Meet the NU NL Team. Register use case allows a group of users to register

on the web site, who want to be in admin group. To be admin you must register. Initially the

customer can view the site but later the service can be upgraded to search topics, comment

on the news and share the news. Only Registered users can change the content of the site.

While changing the content admin should be authenticated. It could be done through

contacting administrators. Once registered the admin only can remove the user. The

administrative section is only visible to the admin user.

4.1.2 Functional Requirements

The term client/server refers primarily to an architecture or logical division responsibilities, the client is the application (also known as the front-end), and the server is the DBMS (also known as the back-end).

# Other Nonfunctional Requirements

## Performance Requirements

NU-News and Updates requires a system with proper internet connection and browser. Performance depends on speed of internet and number of people viewing the server.

## Safety Requirements

To ensure no data loss in case of error in database, backup should be taken one at a time. Admin access should not be shared with multiple user or admin access should be control.

## Security Requirements

1. The system should be hosted in secure server and domain name should be secured.

2. Passwords will be saved encrypted in the database to ensure the user's privacy.

3.The system will be protected against vulnerabilities such as SQL injection attacks or JavaScript injections

**5.4 Software Quality Attributes**

Intuitive controls make adding product features, images and descriptions easy. Conveniently publish of content for mobile phones and make it easy for mobile users to find.

## Business Rules

Only valid information should be posted.

Appendix A: Glossary

* Software Requirement Specification: is a description of a software system to be developed.
* Content Management System: A content management system manages the creation and modification of digital content. It typically supports multiple users in a collaborative environment.
* XAMPP: a software used to host sites locally
* User interfaces:  is the space where interactions between humans and machines occur.