**SE Club Website**

Software Requirements Specification

**Version <3.0>**Software Requirements

# Introduction

The introduction of the Software Requirements Specification (SRS) provides an overview of the entire SRS with **purpose**, **scope**, **definitions**, **acronyms**, **abbreviations**, **references**, and **overview of the SRS**. The aim of this document is to gather and analyze and give an in-depth insight of the complete **SE Club Website** by defining the problem statement in detail. Nevertheless, it also concentrates on the capabilities required by stakeholders and their needs while defining high-level product features. The detailed requirements of the **SE Club Website** are provided in this document.

## Purpose

The purpose of the document is to collect and analyze all assorted ideas that have come up to define the system, its requirements with respect to consumers. Also, we shall predict and sort out how we hope this product will be used in order to gain a better understanding of the project, outline concepts that may be developed later, and document ideas that are being considered, but may be discarded as the product develops.

In short, the purpose of this SRS document is to provide a detailed overview of our software product, its parameters, and goals. This document describes the project's target audience and its **user interface**, **hardware,** and **software** requirements. It defines how our client, team and audience see the product and its functionality. Nonetheless, it helps any designer and developer to assist in software delivery lifecycle (SDLC) processes.

## Scope

Primarily, the scope pertains to the website product features for making SE Club website project live. It focuses on the **club**, the **stakeholders**, and **applications**, which allow for satisfying students, instructors, and other university members’ requirements

The standard can be used to create software requirements specifications directly or can be used as a model for defining an organization or project specific standard. It does not identify any specific method, nomenclature, or tool for preparing an SRS.

## Definitions, Acronyms, and Abbreviations

|  |  |
| --- | --- |
| FAQ | Frequently Asked Questions |
| SE | Software Engineering |

## Overview

The remaining sections of this document provide a general description, including characteristics of the users of this project, the product's hardware, and the functional and data requirements of the product.  General description of the project is discussed in section 2 of this document.  Section 3 gives the functional requirements, data requirements and constraints and assumptions made while designing the website.  It also gives the user viewpoint of product.  Section 3 also gives the specific requirements of the product.  Section 3 also discusses the external interface requirements and gives detailed description of functional requirements. Section 4 is for supporting information.

# Functional Requirements

The system has xxx Security Groups, which is, Admins, Managers, Academic managers, Editors/writers, and the default (no security group)

## Super Admins

### The super admin shall be able to login.

### The super admin shall be able to manage users.

### The super admin shall be able to manage security groups

### The super admin shall be able to manage users in security groups

### The super admin shall be able to manage permissions of users

## Visitor

Visitors are everyone uses the system without having an account (Empty for now)

## Users

### The user shall be able to manage his projects (name, description, files)

### The user shall be able to manage his/her profile

#### first name

#### last name

#### nickname

#### email

#### password

#### fields good at

### The user shall be able to manage his projects (name, description, files)

### The user shall be able to search for other users

### The user shall be able to manage his/her personal achievements.

### The user shall be able to search for events/achievements (Title, description)

### The user shall be able to view registration form for events (TBC)

### The user shall be able to search for courses

### The user shall be able to suggest software projects

### The user shall be able to search for everything (TBD)

### The user shall be able to display study plans.

### The user shall be able to highlight the courses he/she had taken so far / taking now.

### The user shall be able to manage his/her grades in each course he took.

### The user shall be able to vote to a course to be in the revision program.

### The user shall be able to manage his/her questions.

### The user shall be able to manage tags of his/her questions.

### The user shall be able to manage his/her replies on the posted questions.

### The user shall be able to evaluate the answers to the question with (agree/disagree).

### The user shall be able to manage schedules for his/her daily studying. (Number of hours, subject(course))

### The user shall be able to manage his/her study rooms (Status (private/public), timer).

### The user shall be able to start/end/pause the timer of his/her study rooms.

### The user shall be able to invite others to his/her study room (via email, or sharable link).

### The user shall be able to join/leave public/private study rooms (Needs creator approval if private).

### The user shall be able to view users in the study rooms

### The user shall be able to view useful websites for university students

### The user shall be able to view financial transactions

## Users (Needs permissions)

### The user shall be able to manage users’ permissions

### The user shall be able to manage users.

### The user shall be able to manage security groups

### The user shall be able to manage users in security groups

### The user shall be able to manage permissions of users

### The user shall be able to manage. (vision, goal,)

### The user shall be able to manage the names of the members who developed the website. (Name, Student ID, ) (each student should have unique URL)

### The user shall be able to manage the SE Club achievements (Title, description, image, date, student involved)

### The user shall be able to manage the event (revision classes, competitions, ...) (Title, description, image, date, student involved, links)

### The user shall be able to manage the links of social media accounts

### The user shall be able to manage the gallery of SE club. (Image, description) (TBD)

### The user shall be able to manage courses’ information (brief description, taught by, supported material, pre prerequisite, previous exams)

### The user should be able to manage SE Major info (internship, co-op, minors)

### The user shall provide weekly programming challenges.

### The user shall be able to manage info about Internship opportunities.

### The user shall be able to manage study plans.

### The user shall be able to manage revision program suggestion.

### The user shall be able to manage FQA

### The user shall be able to manage useful websites for university’s students’ links

### The user shall be able to manage financial transactions

## System

### The system shall be able to display all SE Club members/achievements/events

### The system shall to able to display the calendar (months)

### The system shall to able to display events/achievements in the calendar

### The system shall support internationalization (multi languages)

### The system shall be able to suggest courses for the student to take.

# Non-Functional Requirements

## Security

### **Security Functional Requirements**

#### The system shall be able to authenticate users

#### The system shall be able to authorize users

#### Validate username and password inputs

#### Encrypt sensitive data transmitted over the internet (username, password)

#### The system shall detect and hinder Bots and IP Throttling attacks.

#### The system shall prevent brute force

#### The system shall detect and prevents users from using breached passwords

### **Security Non-Functional Requirements**

#### Keeping detailed logs of authentication system to support forensic investigation

## Scalability

## Extensibility

## Requirements colored with yellow means there is a team working on it right now