

# **Software Requirements Specification**

for

## **UPV Blogsite**

**Version 1.0**

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# 1. Introduction

## 1.1 Purpose

The purpose of this document is to present a detailed description of UPV Blogsite. It will explain the purpose and features of the system, its interfaces, the functions of the system, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both the developer and instructor and will be proposed to the instructor for approval.

## 1.2 Intended Audience

The intended audience of this System Requirements Specification (SRS) is the developer and the instructor who oversees this project.

## 1.3 Intended Use

This SRS document should be used by the developer to keep track what requirements, features, and dependencies there are for the creation of the website. While for the instructor, it will show the purpose of the system, its features, its dependencies, and other details to see if it fits with their requirements.

## 1.4 Scope

This software system will be a blogging platform for registered users of UPV individuals where they can publish their blogs. Since only registered users are allowed to publish blogs, the system will incorporate a login/logout feature as well as a registration feature for new users. This system will be designed to make it easy for the users to create their blog and publish it quickly. It will also allow the users to be able to edit their blog once they have been published. This would make the system easy to understand and use for the users. The system will also contain a relational database containing the list of users and the blogs they authored.

## 1.5 Definitions and Acronyms

### 1.5.1 Definitions

Risk	Description	Strategy
Developer is unskilled in certain areas needed for development	The developer is unskilled, hindering the development of the system	Alert instructor of possible delays; train developer to get the required skills
Faults in reusable software components	There are some faults with the external software components that will affect their usability	Replace with other external components known for reliability; investigate how to modify/fix for own use

### 1.5.2 Acronyms

SRS – System Requirements Specification

std\_id – Student ID

UPV – University of the Philippines Visayas

## **2. Overall Description**

### **2.1 User Needs**

The primary user of this system is a UPV individual and they can register to this website using their UPmail and Student ID. Since this is a blogging platform, the users should be able to create their blogs and edit them whenever they'd like to. They should also be able to add images for their blog posts. They would also be able to see their blog post history and to navigate through them quickly.

### **2.2 Assumptions and Dependencies**

This system is based on the Django Framework which is an open-source, high-level Python web framework and it is assumed that the Django version that will be used is still supported. It also assumes that the website is connected to the UPV Student database.

The following are required to run this website:

- asgiref 3.4.1
- backports.zoneinfo 0.2.1
- Django 4.0
- django-session-timeout 0.1.0
- Pillow 8.4.0
- six 1.16.0
- sqlparse 0.4.2
- tzdata 2021.5

### 3. System Features and Requirements

#### 3.1 Functional Requirements

##### 3.1.1 Register User

Function	<b>Register User</b>
Description	Get user information and validate with the UPV Student Database and if validated, save into the website database
Trigger	Clicking Register button
Inputs	upmail, std_id, username, first_name, last_name, password1, password2
Output	Accept or reject user, redirecting to home page if accepted
Requires	Access to UPV Student Database

##### 3.1.2 Login User

Function	<b>Login User</b>
Description	Get user information and authenticate with website database
Trigger	Clicking Login button
Inputs	std_id, password
Output	Accept or reject user, redirecting to home page if accepted
Requires	User not authenticated and access to website database

##### 3.1.3 Logout User

Function	<b>Logout User</b>
Description	Logout registered user from website
Trigger	Clicking logout button
Inputs	None
Output	Logout user, redirect to logout page
Requires	User authenticated and access to website database

##### 3.1.4 Create Post

Function	<b>Create Post</b>
Description	Allow registered users to create a blog post to be published on the website
Trigger	Clicking Create Post button
Inputs	title, body, image
Output	Blog post with the user inputs, author of blog is the user, and date_updated value
Requires	User authenticated and access to website database

##### 3.1.5 Edit Post

Function	<b>Edit Post</b>
Description	Allow author of blog to be able to edit the contents of their blog
Trigger	Clicking update button

Inputs	title, body, image
Output	Modified blogpost with the user input with updated date_updated value
Requires	User authenticated, user is the author of the blog, and access to website database

### 3.1.6 View Post

Function	View Post
Description	Let authenticated and unauthenticated users see all the content in the published blog
Trigger	Clicking on the Blog title or image
Inputs	blog's slug
Output	Redirect to detailed view of the blog
Requires	Access to website database

## 3.2 External Interface Requirements

The website will be linked to the University of the Philippines Visayas (UPV) Student database to verify the membership of the user. Since the purpose of the website is such that only individuals of UPV are able to publish blogs, therefore a connection with the UPV student database is required. The UPV Student database fields of interest to the blogging platform are member's Student ID, upmail, first name, and last name.

The *Register User* function sends the std\_id, upmail, first\_name, and last\_name to the UPV Student Database and a Boolean is returned denoting the membership status.

## 3.3 System Features

The system features are:

- Register users who are within UPV
- Login registered users into the website
- Logout registered users from the website
- Registered users are able to create a post
- Registered users are able to edit a post
- Users are able to see the whole contents of the blog
- Users are able to scroll through snippets of blogs made by registered users on the home page

## 3.4 Nonfunctional Requirements

### 3.4.1 Performance

The different functions and features of the website should be executed in a reasonable amount of time. Users should be able to load the snippets of blogs as soon as they enter the home page.

#### 3.4.2 Safety

There should be an administrative user that is able to monitor the blogs posted on the website with the ability to delete posts so that they can enforce the rules of the website as well as ensuring that the posts do not break any laws.

#### 3.4.3 Security

The passwords of the registered users should be encoded and even the administrator should not be allowed to know or be able to see them. The server in which the registered users' blogs are stored will have its own security to prevent unauthorized write access.

#### 3.4.4 Quality

The quality of the website should be similar to popular websites such as reddit.com. The website should also be responsive to fit the screen size of the user to give them a better user experience.