

# Daffodil International University

## Web Engineering

Project Title: “Web-based School Management System”

*Software Requirements Specification (SRS)*

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## 1. Introduction

**1.1. Purpose:** Better management and communication always increase productivity. Being one of the core parts of a country's socio-economic development, the education system plays a vital role. That's why it holds more importance. But most of the digital educational platforms/systems are not user-friendly and are found to be complex to understand. Therefore, we will be developing a digital management service for educational institutions that will be easy to use, will ensure quality service, efficient management, and better communication.

- Scaling down the uses of paper
- Improvement of workflow
- Dynamically faster information showcasing
- Better communication establishment
- Ensuring safety

**1.2. Beneficiaries:**

- ✓ Administrative Personnel
- ✓ Visitors looking for information about the respective institution
- ✓ Teachers
- ✓ Students

## 2. Basic Descriptions

**2.1. Development Phases:** 3 development phases. Each phase contains a set of modules to be developed.

**2.2. Modules:**

- Login
- Registration
- Interactive Web Layout
- Noticeboard
- Result Module
- Profile
- Statistical Module
- Form Fill-up Module

**2.3. User Types:**

- Administrators
- Editors
- Teachers
- Students
- Visitors

### 3. Specific Requirements

#### 3.1. System Requirements:

**3.1.1. Front-end:** HTML, CSS (Bootstrap/UIKit), JavaScript (jQuery).

**3.1.2. Back-end:** PHP (Laravel), SQL (MariaDB/MySQL).

**3.1.3. Environment:**

- ❖ OS: Windows/Linux/macOS
- ❖ Server: Apache/Nginx

#### 3.2. Functional Requirements:

- ✓ Administrators will be able to do all types of modifications to the system.
- ✓ Editors will be given restrictive but essential permissions to manage the overall system. (mostly EDIT only)
- ✓ Only Administrators and Editors will be able to add/remove/modify other user types information from the system.
- ✓ Teachers will be able to submit the results of their respective Students.
- ✓ All user types except Visitors will be allowed to log in using their credentials.
- ✓ Results, Notices can be published/maintained by Editors and Administrators.
- ✓ Administrators, Editors, and Teachers will be able to publish/maintain forms.
- ✓ Administrators will be responsible for maintaining information showcased for visitors (media, textual information, etc.).

#### 3.3. Non-functional Requirements:

- ✓ Only administrators will be allowed to switch any access control and user type.
- ✓ Well-known security issues will be countered or patches will be ensured through the Laravel framework.
- ✓ Database has to have backups periodically.
- ✓ Addition/removal of a module must ensure not to affect the overall functionality of the system, etc.