**SOFTWARE REQUIREMENT SPECIFICATION**

**PROJECT TITLE :**

**“Building A Serverless Web Application using AWS Services.”**

**TEAM MEMBERS:**

**Gayethiri RS**

**Inba M**

**Marry Mettilda S**

**SOFTWARE REQUIREMENT SPECIFICATION**

**1. Introduction**

The SRS is produced at the culmination of the analysis task. The function and performance allocated to software as part of the system engineering and refined by establishing a complete information description, a detailed functional description, a representation of system behaviour, indication of performance requirements and design constrains, appropriate validation criteria and the other information related to requirements.

The SRS is technical specification of requirement of internal test paper by using scanned copy of answer sheet. This specification describes what the proposed system should do without describing how it will do it. It also describes complete external behaviour of proposed system.

**1.1. Purpose:**

The main purpose of our system is to make students aware of the events and the training programme available for them.

**1.2. Scope:**

The scope of the project is that since the application is deployed in cloud, it will be cost efficient and scalable.

**1.3. Definition, Acronyms, Abbreviations:**

DFD: - Data Flow Diagram

CSS : - Cascading Style Sheet

AWS: - Amazon Web services

SRS: - Software Requirement Specification.

**1.4. Reference:-**

1) JS & CSS - W3schools

2) AWS – AWS tutorials

**1.5. Overview:-**

The aim of the project is that to create an application for the college management system as an desktop application.The students and the faculty details can be added in the application.The college admin can also view the student and faculty details in this app.This application can be installed using the appstream 2.0 services.This can build and launch the app in the cloud.Then the services S3 and EC2 can be used in this.Then these provisioned to the amazon virtual private cloud (vpc).Then it can be deployed and shared to the browser securely.

**2. OVERALL DESCRIPTION**

**2.1. Product perspectives:-**

This project gives the student details and the faculty details as a complete data in the college management.

**2.2. Product Function:-**

The data represented in the application contain the following functions:-

Student details

Faculty details

Academics

Administration details

**2.3. User Characteristics:-**

This software is developed in such a manner that total appearance of the product is to make it more user friendly. The user will be provided with login id and password.

**2.4. General Constraints:-**

Updation of the student and faculty details can be viewed by logging in to their account.

**2.5. Assumption and Dependencies:-**

All the data entered will be correct and up-to-date. This desktop application is developed using Java as front end and is deployed in the cloud.

**3. SPECIFIC REQUIREMENTS**

It describes all the details that the desktop application developer need to know for designing and developing the system. This is typically the largest and most important part of the document.

**3.1. External Interface Requirements:-**

**3.1.1. User Interface:-**

User interface is designed in a user friendly manner and the user, in another end he has to give the order, for that he will interface with keyboard and mouse.

**3.1.2. Hardware Interface:-**

Processor : Intel®core™i3-5005U CPU 2.00GHZ

Memory : 5 GB RAM

USB Drive : 2.0

**3.1.3. Software Interface:-**

Operating System : Windows 7/ 8/ 8.1/ 10

Coding Language : Java, Mysql

IDE : Android studio, Amazon Web Service

Front End : XMl

**3.1.4. Communication Interface:-**

Windows platform

**3.2. Performance Requirements:-**

The performance is dependent on the speed of the network connection. The responsiveness matters off for the performance.

**3.3. Design Constraints:-**

The students can have the access anytime from anywhere. Updation of any new details can be done by the user.