**Software Requirements Specification**

**For**

**LEAVE MANAGEMENT SYSTEM**

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**1. Introduction:**

**1.1 Purpose**

The purpose of this document is to present with a comprehensive perspective of LEAVE MANAGEMENT SYSTEM. Moreover this documentation would act as a reference manual for future developers. This documentation will help new users.

The purpose of this document is to give a detailed and complete description of the requirements for the Leave Management System. It will illustrate the purpose for the development of the system. It will explain system constraints, interface and interactions with other external applications. It includes the functions and features of the system. Moreover it gives an overview of the design implementation of the system. Document Conventions:

**1.2 Document Conventions**

There are no standard document requirements.

**1.3 Intended Audience and Reading Suggestions**

This document is intended for any individual user, developer, system analyst, testers, documentation writers, project manager. The expected audience of this document are the students, teachers and admins.

1. Admin: One who looks after the system and supervises the workings.
2. Students: Any student seeking approval for leave from teacher.
3. Teacher: only approving valid leaves with a medical certificate.
4. Developer: The developer wants to edit, add, modify requirements into existing code, must read this document and update requirements and pass information correctly to next phases of the development processes.

**1.4 Product Scope:**

This project’s intention is to make the leave application process online and ease up the process for students and teachers. This project will help in making the process paper free and replace the existing obsolete procedure.

**1.5 References**

IEEE Software Engineering Standards Committee, IEEE Std 830-1998, IEEE Recommended Practice for Software Requirements Speciﬁcations, October 20, 1998

**2. Overall Description**

**2.1 Product perspective**

The main motive of this project is to make the procedure of leave application easy. Students can make use of telegram bot and website. Students can upload the required documents and send it for approval to respective teachers. Depending on the application, the teacher can approve or deny the application. Students can track their application and receive responses from the teacher.

**2.2 Product functions:**

* Maintain records of application.
* Able to view status of application.
* upload supporting documents.
* Reduces the paperwork.
* Seamless process
* available on telegram bot and website

**2.3 User classes and characteristics**

1. Student: Students can submit their application and upload the required documents
2. Teacher: Can approve or deny the request. Track the record of leaves.
3. Admin: Admin has to maintain the data and keep the server running.

**2.4 Operating Environment**

This Leave management system works on any computers and mobile phones working on the internet.

**2.5 Design and implementation Constraints**

* The Leave management system can also work offline on telegram bot. Once the internet connection is established, it automatically gets submitted to teachers for approval.
* But this does not work on website, as it requires internet connection.

**2.6 User documentation**

There is no user documentation.

**2.7 Assumptions and dependencies**

* The information of all users related to the Leave application is stored in a database that is accessible by the Admin.
* Teacher can receive, approve or disapprove requests for application.
* Each student of the college seeking approval for leave application is expected to make use of the system.

**3. External Interface Requirements**

**3.1 User Interfaces**

The website should work and be tested against IE, Firefox, Google Chrome.

**3.2 Hardware Interfaces**

There are no such special hardware interfaces requirements.

**3.3 Software Interfaces**

* Telegram needs to be installed to use the telegram bot
* Other web development tools are open source and freely available.

**3.4 Communication Interfaces**

Student identification number, web browsers or telegram are required to use the application

**4. System Features**

**4.1 Description and Priority**

Keeping the records of the leave application is the highest priority, this will help students and teachers to maintain the record.

**4.2 Stimulus/ Response sequences**

Maintaining a feedback form will help this system to change according to users requirements.

**4.3 Functional requirements**

There are no special functional requirements.

**5. Other Nonfunctional Requirements**

**5.1 Performance Requirements**

The website should be hosted on a server that can provide adequate response time. Telegram will be more useful if one has no access to internet application as it will accept the application and submit it when the connection is established.

**5.2 Safety Requirements**

* Fake medical certificates will not be accepted.
* Genuine application will be accepted.

**5.3 Security Requirements**

**5.4 Software quality Attributes**