**Software Requirements Specification**

for

S5 DBMS Course Project on

**Applying certificates online in Academic Section**

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## 1.0. Introduction

### 1.1. Purpose

The purpose of this document is to present a detailed description of our project, online mess allotment. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate. This document is a part of the DBMS course project.

# 1.2. Product scope

This product is a web application to keep track of the mess allotment details of students of the college.

Usually students have to find out the vacant messes and get the dues cleared and get the paid receipt signed in the hostel office and take the mess card and submit it in the corresponding mess. It is a hectic and time consuming process .This may also result in some problems.The reasons depend on the following factors.

1) public holidays,(students trying to get their bill signed in the hostel office may face problem)

2) many students trying to get allotted the same mess

3) the corresponding issuer may be on leave.

To reduce this wastage of time, we are implementing a web application where students can get the mess allotted, check their mess dues, check mess vacancy online.

All system information is maintained in a database.

### 1.3. Intended audience

This project is a prototype for mess allotment online and it is restricted to the students of this college. This project will be implemented under the guidance of course faculty , and is useful for the student community as well as the mess authorities.

***1.4. References***

Fundamentals of database systems by Ramez Elmarsi and Shamkant B.Navathe

## 2.0. Overall Description

### 2.1. Product perspective

This system will consist of a web application. The web application will be used to keep track of the mess allotted to the students ,their mess dues, mess vacancy, menu of the messes . Since this is a data-centric product it will need somewhere to store the data. For that, a database will be used. The web application will communicate with the database. The application will use the database to get data as well as add and modify the data.

### 2.2. Product functions

With the application, students of this college will be able to sign in using their nitc registration number and by entering their credentials, can login to the web application. On the home page they will be to see the status of vacant messes,if any, check the mess dues and get allotted for a mess. The different types of facilities are:

1. Check the mess due
2. Check no. of vacancies in each mess
3. Check the menu of each mess
4. Get a mess allotted (ony if they get the dues cleared)

The Admin has complete view of the database. He can remove or add students who can sign in and use the facilities of the portal. He can add or remove a new mess if any.

### 2.3. User classes

There are three types of users that interact with the system:

Students

Admin Messincharge

### 2.4. Operating Environment

Operating environment for online mess allotment portal is as listed below.

Database : MySQL

Client/server system

Operating system: Windows

HTML/ CSS

Platform: PHP

### 2.5. Design and Implementation Constraints

Capacity of the database

Need for yearly updation of the databases

Reliability of the server

### 2.6. User documentation

A user manual will be provided with the product.

**3.0. Specific requirements**

This section contains the functional and quality requirements of the system.

# 3.1. User interfaces

The first page of the web interface gives the user an option to specify whether the user is a student or the Admin. Students are redirected to a page where they can choose one of the two options i.e.,register and login. He can login using his userId and password. If the student is a new user, he needs to register by entering his credentials once.

Admin can login using their ID and password. All actions accessible to them will be enlisted in the redirected page.

# 3.2. Hardware interfaces

Since the web application does not have any designated hardware, it does not have any direct hardware interface.

# 3.3. Software interfaces

The communication between the database and the web application consists of operation concerning both reading and modifying the data.