



INTRODUCTION

mySpace is a system that manages the records of students and faculty members regarding results, examination, personal information etc. Through **mySpace**, extensive information will be available at your fingertips and at any time. Viewing student data, allocating classes and reshuffling, managing semester information, examination dates, subject management, result declaration and related issues are made simple and easy. **mySpace** will allow keeping data in a form that can be easily accessed and analysed in a consistent way.

Existing System

The present system is a manual system. The Manual system involves paper work in the form of maintaining various files and manuals or maintaining important information through the use of mails, online spreadsheets, Google forms etc. Maintaining critical information in this form is full of risk and a tedious process.

Proposed System

In **mySpace**, the problems that were in the previous system will be solved by shifting to a "Everything under One Roof" system of the modern age. The database is used to store the data at the backend of the system. We are attempting to improve our existing system that runs on pen and paper and tedious manual work.

The system that is proposed provides consistent and redundancy free data in storage and should be more efficient. This system provides the security of data by authentication of users and the rights of users are defined.

There are three users for this system, namely:

1. **The Admin**
(has full access to read and write of all modules in the management system)
2. **The Faculty**
(has access limited to write and manage the student's marks, course details etc.)
3. **The Student**
(has limited access to read and access their marks, fees paid, pending dues etc.)

PURPOSE

This document describes the Software Requirements Specification (SRS) for **mySpace** that provides the access and management of information of different modules in an

Institute like Students, Professors/Faculty, Timetables and Classroom allotment, Examination and Results, Fees and Dues etc. Our project is based on a database, which stores and maintains the information of different modules within the system. The foremost advantage of **mySpace** is to avoid entries in hard copies or manual work carried out through forms and spreadsheets shared over mails.

The purpose of this document is to retrieve and analyse the ideas that define the product and requirements that the user needs. This document describes the details of our product, its parameter, and its goals. This SRS document describes the scope, advantages, functional and non-functional requirements of the product and software/hardware specifications of our proposed product. **mySpace** saves the human power and time cost to perform the same task. The data in the database can be saved for a long time and can be used for different purposes in the future. In **mySpace**, there is a minor chance of losing the data. This document will help the developers/designers in case of maintenance of the software product.

SCOPE

As our Institute grows day-by-day, so does the complexity of storing information related to the Institute and its members. We all face many issues such as: fees and dues of students, marks of students, timetables, examination schedules etc.

mySpace will give maximum services in a single software product that can be used by Students, Faculty members and the System Administration.

ADVANTAGES

Our project will adhere to, but not be limited to, the following:

- **Complete Control:** With **mySpace**, every section of the institute could be managed from a single platform. It offers full control to monitor, manage, and access all the resources such as Exam Details, Fees Details, Timetable for the day and much more from a single platform.
- **Time Saving:** Since we will be implementing an "Everything under One Roof" policy, the time spent on accessing various different resources for a specific task will be eliminated.
- **No Need of Paperwork:** Since this will be a completely computerised approach to the storing and accessing information, the need of storing and handling paperwork is eliminated.
- **Easy Accessibility:** The administrator holds the full rights to all the information within the infrastructure. They can make changes to vital details instantly and keep an eye on any goof-ups in the data.
- **Beneficial for the Students:** While the software will make the job of faculty and administrators easy, it will also help the students in many ways. Students can

check the schedule for different courses and exams without hovering over the notice board.

FUNCTIONAL REQUIREMENTS

The Functional requirements of our project are mentioned below. However, the project will not be limited to these only.

- Users must have a valid User ID and Password to login thus creating their individual profiles.
- A "Forgot Password" section that sends a link to the verified email.
- Admin can register new faculty and students.
- Admin can also publish notices that would be visible to all.
- Student and Faculty dashboard page.
- Faculty members can edit, update and manage details about the performance of students in their subject.
- Faculty members can also publish details about the courses, such as syllabus, books, exam pattern, topics that will be covered on a weekly basis and other announcements regarding extra class, doubt sessions etc.
- Students can view details about their previous fees payment (tuition fees, mess fees, etc.) and pending dues (unpaid fees, library dues, mess dues etc).
- Students can view the course details published by the faculty member.
- Students can also view the details of their upcoming examinations schedule, class timetable and their performance in previous exams.
- Students can also view their report cards for previous semesters.
- Students and Faculty members view the academic calendar and holidays for the ongoing semester.
- Students can also request for various certificates such as Fee clearance, hard copy of report card, bonafide or any other certificate and the admin can then inform them on when they can come and collect the same.

NON-FUNCTIONAL REQUIREMENTS

Non-functional requirements of our system are mentioned below:

- **Performance**
mySpace shall be built upon the web development technique and put on the web server online. The system and the server must be capable of handling the real-time error functionality that occurs by the defined users. In addition, the system must be safety critical.
- **Reliability**
The system is safety critical. If it moves out of normal operation mode, the requirement is to drop or down the server and fix it as soon as possible and open it again. This emergency behaviour shall not occur without reason.

- **Availability**

When in normal operating conditions, requests by a user for an online system shall be handled within 1 second. Immediate feedback of the system's activities shall be communicated to the user by clearing the system and giving space and speed to their hospitality.

- **Security**

There shall be a strong security mechanism should be placed in the server side of the system to keep unwanted users from hacking or damaging the system. However, all users of the system give and store the details of privacy related to personal information and many others. However, our system can be accessed online so we need a very secured system as far as security is concerned.

- **Scalability**

The proposed system is highly scalable and can be adding new models and making the project more personalised according to the need of the user.

SOFTWARE TOOLS

Database: SQLite

Client: Any Web Browser

Back-End: Django

Development Tools: VS-Code

Programming Language: Python

DEPLOYMENT

Operating System Server: Windows 7 and above, Linux, Unix

HARDWARE SPECIFICATION

Processor: Intel Core i5

RAM: 4GB or above

Hard Disk: 1GB or more of free space