

Software Requirements Specification

Mentorship Network Management System

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1. Introduction

This section provides the purpose, scope, and overview of the SRS document.

1.1 Purpose

The purpose of this document is to give a detailed description of the requirements for the Mentorship Network Management System (MNMS) software. It will illustrate the purpose and complete declaration for the development of system. It will also explain system constraints, interface and interactions with other external applications. This document is primarily intended to be proposed to the Mentorship Network Executive Team for its approval and a reference for developing the first version of the system for the development team.

1.2 Scope

The Mentorship Network Management System is a web-application which helps the leaders of the Mentorship Network at NYU Abu Dhabi better perform their weekly, monthly, and yearly tasks to upkeep the program. The application will be accessible on the web and login-protected. The application will deliver three intertwined key features: 1. A flexible, viewable database of mentors, mentees, and matches, 2. A mail merge functionality which integrates with the user's gmail, and 3. A suggested matches algorithm which generates a list of suggested matches for the user to consider. An administrator will also use the web-portal in order to administer the system and keep the login credentials for users updated. The goal of this software system is to allow the mentorship network to support more pairs of mentees and mentors with the same amount of executive team members. The goal of the system is also to ensure that data is protected and preserved for each year in the program.

1.3 Overview

The SRS contains 3 sections, the 1st section is the introduction, it provides the purpose, scope, and overview of the document itself.

The 2nd section provides an overview of the system functionality and system interaction with other systems. This chapter also introduces different types of stakeholders and their interaction with the system. Further, the chapter also mentions the system constraints and assumptions about the product. Customers should refer to this 2nd for better understanding of the overall system.

The 3rd section provides the requirements specification in detailed terms and a description of the different system interfaces. Different specification techniques are used in order to specify the requirements more precisely for different audiences. This will be used for developers and designers to translate the requirements to a working system. Section 3 is a more technical and in-depth expansion of section 2. Developers and designers should refer to Section 3.

2. General Requirements

This section will give an overview of the entire system, introduce its functionalities, and show how it interacts with other systems. It will also describe what type of stakeholders that will use the system and what functionality is available for each stakeholder. Finally, the constraints and assumptions for the system will be provided.

2.1 Product Perspective

The product will be akin to other mentorship management platforms. However, the product will focus on mentorship management and not an interface for mentors and mentees. This is an important distinction. The Mentorship Network has expressed its desire to remain a face-to-face program, with little technological reliance with mentors/mentees. This software is meant to aid the executive team's processes and thus is unique.

The diagram shown to the right displays the major components of the system.

Put the product into perspective with other related products. If the product is independent and totally self-contained, it should be so stated here. If the SRS defines a product that is a component of a larger system, as frequently occurs, then this subsection relates the requirements of the larger system to functionality of the software and identifies interfaces between that system and the software. If you are building a real system, compare its similarity and differences to other systems in the marketplace. If you are doing a research-oriented project, what related research compares to the system you are planning to build.

A block diagram showing the major components of the larger system, interconnections, and external interfaces can be helpful. This is not a design or architecture picture. It is more to provide context, especially if your system will interact with external actors. The system you are building should be shown as a black box. Let the design document present the internals.

The following subsections describe how the software operates inside various constraints.

2.2 Product Functions

2.3 User Characteristics

2.4 Constraints

2.5 Assumptions

3. Specific Requirements