SOFTWARE

DESIGN

SPECIFICATION

Project BarberMenagmentAndScheduleApp

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# Introduction

## Purpose of the Document

This is the Software Design Specification (SDS) for the BarberMenagmentAndScheduleApp project. The SDS will break down the project into components to provide a detailed description of the purpose of each component and how it will be implemented.

## Product Scope

The BarberMenagmentAndScheduleApp project is a software solution in the form of a web application designed to enable customers to easily schedule apointments in barber shop. It will also allow management to easily manage their employees.

## Document Overview

The first chapter of this document provides a general overview of the document itself and a brief description of the project. The second chapter describes the application and its functionalities, while the third chapter contains assumptions and constraints related to development and application design. A detailed description of the system architecture is found in the fourth chapter, and a high-level design description is in the fifth. The sixth chapter describes the low-level design of the application, while the seventh chapter details the user interface.

# Product description

BarberMenagmentAndScheduleApp is designed as software solution that should be developed as a web application with an accompanying database. The database will store users personal data and data related to employees and reservations.

Within the system, there is a need to have three types of users:

1. **Unregistered users** - these are users who can only see contact and register page.
2. **Registered users** – these are users who can schedule appointments.
3. **Admins** - these users can manage the application. They can be divided into:
   1. **Managers –** these users can ban other users and manage employees.
   2. **Employees –** these users can report registered users and schedule appointments for unregistered users.

The application must fulfill the following list of functionalities:

1. Obligatory functionalities
   1. User login and registration
   2. Appointment scheduling
   3. Employee management
2. Desirable functionalities
   1. Discount notification system for users.

# Architecture

## System Overview

The " BarberMenagmentAndScheduleApp " application will consist of three independent parts: the client-side, server-side, and a database All three parts will be on the same server for convenience, but communication between them will occur over the internet using HTTP and WebSocket protocols, allowing them to be deployed on different servers with minimal adjustments to configuration files.

## Required technologies

Client side will be developed on Angular framework, server side on .Net and we will use MS SQL Server as database.