

---

# **Software Requirements Specification**

**for**

## **Lab Map**

**Version 1.0 approved**

**Prepared by Group:**

**Group : G 38**

# Table of Contents

<b>Introduction</b>	<b>1</b>
Purpose	1
Product Scope	1
<b>Overall Description</b>	<b>1</b>
Product Perspective	1
Product Functions	1
User Classes and Characteristics	1
Assumptions and Dependencies	1
<b>Interface Requirements</b>	<b>2</b>
User Interfaces	2
<b>Functional Requirements</b>	<b>2</b>
Registration	2
Users' Profiles	2
Editing User Profiles	2
Technician Recommendation	2
Searching For Technicians	2
Reviewing Technicians	2
<b>Nonfunctional Requirements</b>	<b>4</b>
Security	4
Performance	4
Supportability	4

# **1. Introduction**

## **1.1 Purpose**

Application to connect the technicians and doctors.

## **1.2 Product Scope**

The purpose of the project is to streamline the communication between the dentists and the medical technicians needed by them to perform the procedure instead of seeking recommendation from the dentist's network.

# **2. Overall Description**

## **2.1 Product Perspective**

It's a new self-contained product, add services to dentists to make it easier for them to reach and deal with technicians faster and easier

## **2.2 Product Functions**

Major function that user can perform in the application

- Doctors can search for technicians by their name, area, ratings.
- Doctors can submit ratings to different aspects of dealing with technicians.
- Technicians can edit their profile.
- Doctors getting technician recommendations.

## **2.3 User Classes and Characteristics**

- Customer
  - Medical Technicians
- User
  - Dentist

## 2.4 Assumptions and Dependencies

- *Medical Technicians' Database From the Medical Syndicate.*
- *Dentists' Database From the Medical Syndicate.*

## 3. Interface Requirements

### 3.1 User Interfaces

- Profile Section for Dentist as well as Technician
- Search engine for Dentist to search for Technicians
- Interface for recommending Technicians to Dentists
- Rating interface that would contain 4 types of operations to rate on

## 4. Functional Requirements

### 1- Registration

- Dentists would register using their contact information
  - First Name
  - Last Name
  - Email
  - Username
  - Password
  - Phone1
  - Phone2
  - Address (City, neighbourhood, Street Address).
  - Position (Masters, PHD)
  - Graduated from
  - Medical ID (ID From the dentist's syndicate)
- Technician would register using their contact information
  - First Name
  - Last Name
  - Username
  - Password
  - Phone1
  - Phone2
  - Email
  - Address (City, neighbourhood, Street Address).
  - Experience years
  - Graduated From

- Work With (doctors name)
  - Last Work (Images for his last work)
  - Lab ID (Verified Lab)
  - Price
- Dentists would be able to choose their position:
  - Endodontist
  - Root Canal Specialist
  - Oral and Maxillofacial Surgeon
  - Orthodontist
  - Alignment Specialist
  - Pediatric Dentist
  - Periodontist
  - Gum Specialist
  - Prosthodontist
  - Replacement Specialist
- Dentists' medical Id should be verified during registration
- Technicians' lab ID should be verified during registration
- Technicians and dentists should be able to login to the system using their email and password.

## 2- Users' Profiles

- Each user will have its own profile
- Technicians can upload their work pictures
  - We will use cloud service for storing Image

## 3- Editing User Profiles

- Users can change their profile information.
  - They will be able to edit the following
    - First and last Name
    - Phone
    - Address
  - Technicians can add dentists they've worked with in their profile:
    - Technicians can send a work request to a dentist
    - if dentist agreed to the request the name of the dentist will appear in the profile of Technician under work with

- the dentist will be able to rate that technician

## 4- Technician Recommendation

- Dentists will get recommendation of nearby technicians
  - Using the address for both dentists and technicians, we will be able to get to get the list of nearby technicians to that dentist
  - we will sort them by their review rate the higher rate will appear above the lower

## 5- Searching For Technicians

- Technicians profiles would be listed as default when a dentist clicks on the search button in the navbar.
- Dentist can filter Search according to
  - Price
  - Graduate from
  - Experience years
- Dentists can search for technicians by:
  - First Name
  - Last Name
  - City
  - Location

## 6- Reviewing Technicians

- Dentists can review technicians that they work with only.
- Dentists can review technicians they worked with on a scale from 1 to 5 according to:
  - Overall price
  - Delivery time
  - Quality
  - Overall Performance
  - Fixed prosthodontics
  - Removable prosthodontics
  - Discipline
- New rates provided by the dentists should be used to update the new rate average of the technician.

## 5. Nonfunctional Requirements

### 1- Security

- Transaction data must be transmitted in encrypted form.

### 2- Performance

- The system should be able to support 100 simultaneous users.

### 3- Supportability

- The system should be able to accommodate new products and product lines without major reengineering.
- The system app shall be viewable:

Chrome	Firefox	Opera	Edge	IE	Safari	IOS	Android	Windows Mobile
63+	58+	50+	13 +	11 +	9 +	9 +	4.4 +	IE 11 +