A logo with text on it

Description automatically generated

RIGA TECHNICAL UNIVERSITY

Science and Information Technology Faculty

**Institute of Applied Computer Systems**

**Health Clinic Appointment Management System**

Mohammed Arham Mohammed 221ADB053

Sadeem Riyaz 221ADB072

Furqan Ul Islam 211ADB086

Software Design Description

Version 1.0

Riga 2024

**Contents**

Health Clinic Appointment Management System

1. INTRODUCTION.
2. SOFTWARE DESCRIPTION
   1. Document purpose.
   2. Scope.
   3. Related Documents.
   4. Input.
   5. Output
   6. Document overview.
3. Login Process.
4. Database ERD.
5. Appointment process.
6. **INTRODUCTION**

This document describes the system developed for the course "**Software Engineering(English)(1),23/24-P**" for Health Care Management Appointment System, its modules, input information and output information.

**2.SOFTWARE DESCRIPTION**

* 1. Document purpose.

This document describes the software requirements of the projects “Health Clinic Appointment Management System.”

The document is intended for the parties involved in the development, implementation, and maintenance of the software development within the study project:

* Receptionists, who are responsible for creating profiles of verified clients(patients).
* Doctors, who are responsible for reviewing client(patients) information created by receptionists.
* Technical specialists of the developer, who are responsible for its implementation - design and implementation.
  1. Scope

The software “Health Clinic Appointment Management System.” creates a system for doctors with clinics to schedule and keep track of the patient's appointments.

This document describes how the users will operate the software:

* Requires receptionist to verify the client(patient)
* The receptionist takes the relevant information and creates a client profile.
* Receptionists identifies the clients’ needs and assigns them an appointment accordingly.
* The doctor gets notified about the appointment scheduled.
* After the appointment, the doctor sends the prescription to the receptionists.
* The client’s visits and prescription that is given are stored in a database.
  1. Related Documents.

This software design document is made from referencing the following document:

[[Example] System Design Description](https://estudijas.rtu.lv/mod/resource/view.php?id=3947805). *(From ortus)*

* 1. Input

Receptionists: When working with the system, users with receptionist’s role can add or delete doctors, add, or delete sessions and they can view or cancel any appointments created by patients. They can view patient information.

Doctors: When working with the system, users with doctor’s role can view appointments assigned to them, cancel appointments. They can view sessions and cancel sessions. They can also view patients’ information.

Patient: When working with the system, users with patient’s role can view doctor’s details, view sessions that are scheduled and make or cancel bookings.

* 1. Output

When working with the system, all users are provided with a search bar which outputs the searched query.

* 1. Document overview.

This document briefly explains systems working process.

**Login Process**

A diagram of a software flowchart

Description automatically generated

It is a simple login process system. Users must enter credentials. If correct credentials are entered, then the user is identified. Depending on the user identified the following page is loaded.

**Database Entity Relationship Diagram**

A computer screen shot of a diagram

Description automatically generated with medium confidence

* **admin to webuser**: Each admin is associated with exactly one webuser entry.
* **doctor to webuser**: Each doctor is associated with exactly one webuser entry.
* **patient to webuser:** Each patient is associated with exactly one webuser entry.
* **appointment to patient**: Each appointment is linked to exactly one patient, but a patient can have multiple appointments.
* **appointment to schedule**: Each appointment is linked to exactly one schedule, but a schedule can have multiple appointments.
* **doctor to specialties:** Each doctor is associated with exactly one specialty, but a specialty can have multiple doctors.
* **schedule to doctor:** Each schedule is linked to exactly one doctor, but a doctor can have multiple schedules.

**Appointment management**

A diagram of a process

Description automatically generated

* Receptionists creates sessions. After a session is created, patients can view the sessions appointments. Data is stored in the sessions table.
* Patients can book appointments. After an appointment is booked, information is stored in the database. Doctors can view appointments assigned to them.
* Doctors can decide if they want to attend the appointment. If they choose to cancel appointments, appointments information will be deleted from the database.