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**Health Clinic Appointment Management System**

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Software Requirements Specification

Version 1.0

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Health Clinic Appointment Management System

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   1. Definition on abbreviations

|  |  |
| --- | --- |
| Abbreviations | Explanation |
| HCAMS | Health Clinic Appointment Management System |
| DBMS | Database management system |
| GUI | Graphical User Interface |
| OS | Operating System |

* 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 is stored in a database.
  1. Related Documents.

This specification document is made from referencing the following document:

[Example]Requirement Specification. *(From ortus)*

* 1. Document overview.

This document consists of four sections:

* The first section - Introduction, contains information about the general structure, purpose and definitions used.
* In the second section - Description of the Solution Process, the main steps of the process are described.
* The third section, Specific Requirements, describes all the solution requirements that apply to this software.
* In the fourth section - General limitations of the solution.

**2. PROCESS DESCRIPTION**

A diagram of a customer information

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*Figure one. Simplified system process diagram*

A diagram of a customer

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*Figure two. Simplified system interaction model*

A diagram of a medical procedure

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*Figure three. Simplified Block model*

The receptionists should verify that if a client really needs to visit the doctor. Only then the profile will be created. The profile is created by the receptionist and the data is added to the database automatically by the system. The receptionists will then create a time spot in the doctor’s schedule. The doctor checks client info from the database then treats the client. After the treatment, the doctor adds the prescription and medication to the database with the relevant client data.

1. **SPECIFIC REQUIREMENTS**

3.1. System user administration

3.1.1. Access rights to user data

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| --- | --- |
| IDENTIFIER | HCAMS -1 |
| DESCRIPTION | |
| Only users with the role of receptionists may access user data.  Receptionists can create, modify, and delete client data. | |

3.1.2. User administration

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| --- | --- |
| IDENTIFIER | HCAMS -2 |
| DESCRIPTION | |
| The system must provide registration of client profile by creating, deleting, changing information and import into the database.  The following information about the client must be stored:   * Name * Surname * Gender * Date of Birth * Height * Weight * Email * Phone number * Insurance   The system must have the functionality to store the data that is mentioned above into the DBMS.  The database will automatically generate a unique ID for each client. The ID will be used to search client data. | |

3.2. Clinic administration.

3.2.1. Access rights to user data

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| --- | --- |
| IDENTIFIER | HCAMS -3 |
| DESCRIPTION | |
| Client information and doctor’s schedule may only be accessed by the user with the role of receptionists.  Users with the role of doctor may change data in doctor’s schedule.  Users with the role client are not allowed to modify any kind of data in the system or system’s database. | |

3.2.2. Clinic administration.

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| --- | --- |
| IDENTIFIER | HCAMS -4 |
| DESCRIPTION | |
| The system must provide a GUI to input client data. The user with the role of receptionists may only enter the relevant data and the system must enter the data into the DBMS.  When entering the client data, the following must be considered:   * Name and surname should be referenced through an Identity document. * Date of birth must be in DD.MM.YYYY format. * Height must be in ‘feet’. At least one digit after decimal (example 6.0 or 5.10) * Weight must in Kilograms. At least one digit after decimal (example 65.0 or 59.78) * Email section must be filled. Phone number may not be filled. * Insurance section may be left empty.   After the data is entered by the relevant user, the client information must be visible in a human readable format with a GUI by the user with the role of doctor. | |

3.2.3 Prescription information

|  |  |
| --- | --- |
| IDENTIFIER | HCAMS -5 |
| DESCRIPTION | |
| The system must provide the user with the role of doctor to add prescription/medication of the client after service. The option to add comment about the client must also be provided that may or may not be left empty, depending on the client’s need.  The system must add the prescription data with the client data. | |

3.3. User interface

3.3.1 Initial User Interface

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| --- | --- |
| IDENTIFIER | HCAMS -6 |
| DESCRIPTION | |
| The system must provide signup and login option. The signup option allows to create a profile for either a user with the role doctor or receptionists only. Users are required to provide a username and password.  The login interface requires to enter username and password, which identifies the user and proceeds to display the relevant interface. | |

3.3.2 Reception User interface

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| --- | --- |
| IDENTIFIER | HCAMS -6 |
| DESCRIPTION | |
| The user with the role receptionist must be provided with the interface where they add client information mentioned in HCAMS-2(name, surname, gender….) | |

3.3.3. Doctor User interface

|  |  |
| --- | --- |
| IDENTIFIER | HCAMS -7 |
| DESCRIPTION | |
| The user with the role doctor must be provided with the interface where the client information is displayed. After the service provided to the client, they enter service provided and prescription given which is stored in the DBMS. | |

1. **GENERAL LIMITATIONS**

The following technologies will be used in the developing of the software:

* HTML/CSS
* JavaScript
* Python
* Django
* React
* PostgreSQL

Server software may require Microsoft Windows, macOS or Linux OS installation.

You need a web browser to use this system:

* Mozilla Firefox
* Google Chrome
* Microsoft Edge
* Safari
* Brave
* Opera