

Requirements Specification

Allamus On-line Portal

1.0 INTRODUCTION

This section introduces the requirement specification document for the Allamus On-line Portal. It provides the purpose and scope of the system. Any definitions and references are listed in this section as well as an overview of the remaining requirements specification document.

1.1 PURPOSE

The aim of this document is to designate the requirements specifications of the Allamus On-line Portal.

1.2 SCOPE

Allamus On-line Portal shall make easier to find answers and meeting with professionals for customers.

1.3 DEFINITIONS, ACRONYMS, AND ABBREVIATIONS

Python – Programming Languages will be used

AI – Artificial Intelligence

Falcon – Python web framework

Linux – A Unix-like computer operating system.

PostgreSQL – PostgreSQL is a powerful, open source object-relational database system that uses and extends the SQL language combined with many features that safely store and scale the most complicated data workloads.

Jquery – A JavaScript library.

Bootstrap – The most popular **CSS Framework** for developing responsive and mobile-first websites.

1.4 REFERENCES

Lawrence Chung “Software Engineering”

Manager Sam

Wikipedia

Requirements Specification Template

2.0 General Constraints

2.0.1 Python Falcon framework will be used back-end side.

2.0.2 Jquery will be used front-end side

2.0.3 Bootstrap will be used for CSS usage

2.0.4 PostgreSQL will be used data storage

3.0 Assumptions and Dependencies

3.0.1 The system ought to be user friendly.

3.0.2 User can find answers of their questions.

3.0.3 User can solve their problems with professionals without real meeting.

3.0.4 Appointment can distribute fairly between professionals

3.0.5 Customer can find questions from from search engine

4.0 Requirements

4.1 Functional Requirements

4.1.1 User

4.1.1.1 The Portal should have two type of users: Customer and Professional

4.1.1.2 User of the system should login in the portal with their user-name and password.

4.1.1.3 System should show to customers calendar of professionals.

4.1.1.4 System should avoid simultaneous appointment conflicts.

4.1.1.5 System should avoid personal informations sharing between customers and professionals.

4.1.1.6 System should provide video and voice call

4.1.1.7 System should avoid simultaneous question answering conflicts.

4.1.2 Search Engine

4.1.2.1 System should have AI based search engine.

4.1.2.2 System should find most related part of information for question.

4.1.2.3 System should avoid misuse of search engine.

4.1.3 Help and Rules

4.1.3.1 System should have information about usage of The Portal.

4.1.3.2 System should have information about rules and laws of The Portal.

4.2 Non-Functional Requirements

4.2.1 Safety

4.2.1.1 Due to the lack of experts, the negative impact of the customers should be avoided.

4.2.2 Security

4.2.2.1 System should encrypt passwords.

4.2.2.2 System should use authorization for remote access to avoid saving critical data.

4.2.2.3 System should check inputs of search engine in order to avoid attacks.

4.2.3 Performance

4.2.3.1 System should keep connection while video or voice calling without interrupting.

4.2.3.2 System should keep minimum then 5 minutes transition between to appointment.

4.2.4 Availability

4.2.3.1 System should check professionals conformations of appointments.

4.2.3.2 System should avoid unjoined appointments before.

5.0 Use Case Diagrams

