Ana-Maria Nanes
30432

Online Health Shopping Portal
Supplementary Specification

Version 1.0

Revision History

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Table of Contents

Supplementary Specification

1. Introduction

The application in an online paltform that helps the users in curing their disease by giving the list of fruits and herbs that the user should consume in order to get rid of its disease. The main purpose of the application is to help the user to find the accurate products according to the introduced disease and to reduce as much as possible the search time. The system also allows the user to see the description of each herb or fruit in the system in order to read about the benefits of consuming it. The user also has the possibility to add products to the chart and buy them.

The system also includes a module in which the user can search for the hospitals depending on the name of the disease that user enters. The user can choose the products or can select the option that recommends exactly the necessary herbs and fruits.

2. Non-functional Requirements

The system should always be up to date with all the pieces of information, connected to the server and to save the new information in real time, without data loss. This will be possible using correctly the CRUD operations by the administartor of the system in order to modify and update the database info.

2.1 Availability

The application will be available on any computer on which the user can connect to the required server and on which the back-end is run first and the connection with the MySql database is possible. This will be tested by running the application on different computers.

The application must be available on any Web Browser (Opera, Google Chrome, Mozila, Internet Explorer etc.). This will also be tested by running the application on each above mentioned web browser.

Also the application must be available all the time, all day long. This will be measured as procentage of the time it is available of the time it is tested. For example, 23/24 hours/day.

2.2 Performance

The performance of the application refers to the response time when more user acccess simultaneously the information in the system. For example, when more users whant to see the details of a fruit or when they want to check a certain hospital. The response time will be measured and should not increase significantly when more users use the application.

As the application has a client-server architecture and the HTTP is used as a communication mean, it easily to check the response time of each HTTP request and the accuracy of the provided data. This will be perceived by the user as the time an html page will be loaded.

2.3 Security

The application`s security will be ensured by using an encryption algorithm and the at the user accounts creation the encrypted result of the passwords will be stored in the database. In this way, the passwords are not visible to everyone having access to the database. Aso the entire MySql database will be protected by a password.

The security inside the user interface will be ensured by the registration and authentification processes. Onec logged in, an user cannot access or modify data related to other users. The administrator has more rights, but the data specific to its account is again protected.

The user input will also always be verified and only if it passes the validation tests will be taken into considerations.

2.4 Testability

The application can be first tested localy and then on the server. The back-end can be tested separately, and should be always tested first.

As the application is a web application, the functionalities can be tested by testing the HTTP requests and the data they return. This can be done directly in the development environment: STS / Eclipse, in the web server or using another third-party software

2.5 Usability

The application can be used only by the users who already have an account. They can be regular users or administrators. There will be a clear distinction between their accounts and their access rights in the system. Any user without an account can create an account any time. The application provides a friendly user interface that allows unexperienced users to perform easily the desired actions.

As usability refers to how easy the application can be used, it can be measured as number of steps required in order to perform cetain actions. The smaller the number, the more easy to use the application is.

3. Design Constraints

The application is implemented using a high level language : Java. This software language is considered to be slow and to use more memory space than other similar languages.

We can mention the constraints related to the used tools – the MySql database - for which no backup automatic process has been implemented. The back-up should be manually done.

The Spring framework will be used in order to ease the implementation of the application`s features and the entire back-end project will be created using a Maven configuration.

Another design constraint is the chosen server, as the application is a client-server architecture, which is Apache Tomcat. The server has to be running when the application is to be run. First the back-end part of the application is to be configured and then the front-end which runs above the previous one.