optimum hair finder

Non-Functional Requirements DEFINITION

Version *1.0*

*15/08/2016*

VERSION HISTORY

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| **Version #** | **Implemented**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| 1.0 | *Tshepo Molefe (705457)* | *<15/08/16>* |  |  | Initial Non-Functional Requirements Definition draft |
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# Introduction

## Purpose of The Non-Functional Requirements Definition

The whole reason for this document is to be able to classify the different requirements of Optimum Hair Finder system, from the operational requirement (casing the performance and the level of availability of the systems) to the transitional requirements (documenting how much potential does the system have to transition to a different platform)

# Non-Functional Requirements

## Hardware Requirements

The system will require any platform that has some sort of connection to the internet. Every function that this system utilizes depends on connecting to the database which the webserver hosts, from searching for hair salons by name to finding the shortest route to the salon.

## Software Requirements

For the system to be operational, one must have installed the most recent version of the web browser. Since this is a web-based application, the web browser must be able to accommodate JavaScript code, some functions, such as the log in window, are written in JavaScript.

## Performance Requirements

The system’s response time will vary, based on the web browser and the user’s network bandwidth. The optimum response time of the system is under two seconds.

The web server being utilized for this system, Apache, can host a maximum of 256 concurrent connections, therefore the system will be able to accommodate 256 concurrent connections.

The worst latency that the system will experience is 3.7 sec, based on the web server’s bandwidth.

## Supportability Requirements

The system will be made into a mobile application, allowing the find-the-shortest-route feature on the system to be more dynamic.

The system will be maintained by a team of programmers and software engineer

## Security Requirements

Most of our security will be focused of the login and registration of the user. All of the information the use inputs will be encrypted before being sent to our server.

Once the user is registered, the system will allow the user three attempts at logging in. Failing to give a correct password in these three attempts will result in the system asking the user to reset the password by sending a link to the email they entered when registering.

## Interface Requirements

Since the system is web based, the system will interact with the user’s web browser and the web server hosting the system.

The data between the user’s inputs and the system’s results will be transferred via the network the user is connected to.

The system will be able to run on the any version of web browser

## Availability Requirements

Since the system is web based, there is no need for installation. The system will run any web browser, therefore it is not limited to any operating system or platform.

## Assumptions / Constraints

To make use of any of the functions the system offers, the system must have registered the potential user. If the system can’t identify the user then the system must prompt the potential user to register.

Non-Functional Requirements Definition Approval

The undersigned acknowledge they have reviewed the Optimum Hair Finder **Non-Functional Requirements Definition** and agree with the approach it presents. Any changes to this Requirements Definition will be coordinated with and approved by the undersigned or their designated representatives.

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