Healthcare System

SRS

Introduced by: G16

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| **Name** | **Date** | **Reason For Changes** | **Version** |
| Team | 25/11/2018 | Initial Release | 0.1 |
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**Introduction**

**Executive Summary**

“Egy Healthcare System” provides medical services. It should help people identify their medical condition by typing their symptoms or searching for a doctor in the field. It can be used by patients, doctors, companies and schools. It can be linked to hospitals as well. “Egy Healthcare System” is a great place to get your medical treatment.

**Document overview**

The purpose of the document is to collect and analyze all ideas that have come up to define the behavior of the system. We are focusing on how this product will be used in order to gain a better understanding of the project, outline concepts that may be developed later, and document ideas that are being considered, but may be discarded as the product develops. This document describes the project's target audience and its user interface, hardware and software requirements. It defines how our team and users see the product and its functionality.

In short, the purpose of this SRS document is to provide a detailed overview of our software’s functional and nonfunctional requirements.

**Abbreviations and Terminologies**

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| **Abbreviation** | **Full Name** |
| CAM | Complementary and Alternative Medicine |
| HCC | Hierarchical Condition Category |
| ICU | Intensive Care Unit |
| MLBW | Moderately Low Birth Weight |
| RR | Relative Risk |
| RPG | Rehabilitation Patient Group |
| VLBW | Very Low Birth Weight |
| WHO | World health Organization |

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| **Terminology** | **Definition** |
| Access | A patient's ability to obtain medical care. |
| Actual Use Effectiveness | The effectiveness of a product in real-life situations. |
| Admission | The act of placing an individual under treatment or observation in a medical center or hospital. |
| Aftercare | Services that are administered after hospitalization or rehabilitation that are individualized. |
| Behavioral Health Care | Treatment of mental health and/or substance abuse disorders. |
| Chronic Care | Long term care of individuals with long standing, persistent diseases or conditions. |
| Chronic Disease | Disease that persists over a long period of time (i.e., more than 30 days), is not curable, and/or recurs frequently. |
| Complication | A medical condition that arises during a course of treatment and is expected to increase the length of stay. |
| Consultation | A discussion with another health care professional when additional feedback is needed during diagnosis or treatment. |
| Diagnosis | The identification of a disease or condition through examination. |
| Disability | Any medical condition that results in functional limitations that interfere with an individual's ability to perform his or her normal work and results in limitations in major life activities. |
| Emergicenter | A health care facility, for which the primary purpose is the provision of immediate, short-term medical care for urgent medical conditions. |
| Formulary | The panel of drugs chosen by a hospital or other health plan that is used to treat patients. |
| Health Risk Assessment | A set of questions designed to identify personal health risks and suggest lifestyle modifications to reduce risks. |
| ID Card | Identification cards are provided to all insureds for proper identification under their group health plan. ID card information helps providers verify patient eligibility for coverage. |
| Incentives | A mechanism utilized to motivate insureds to achieve the desired result. |
| Maintenance Medication | Medications that are prescribed for long-term treatment of chronic conditions, such as diabetes, high blood pressure or asthma. |
| Patient | The person under medical treatment. |
| Physical Therapy | Rehabilitation concerned with restoration of function and prevention of physical disability following disease, injury or loss of body part. |
| Physician Assistant (P.A.) | A health care professional certified to perform certain duties such as history taking, diagnosis, drawing blood samples, urinalysis and injections under the supervision of a physician. |
| Preventive Care | Health care emphasizing priorities for prevention, early detection, and early treatment of conditions, generally including routine physical examination, immunization, and well-person care. |
| Quality | Defined as a measure of the degree to which delivered health services meet established professional standards and judgments of value to the consumer. |
| Referral | The process of sending a patient from one practitioner to another for healthcare service. |
| Specialists | Providers whose practices are limited to treating a specific disease (e.g. oncologists), specific parts of the body (e.g., ear, nose and throat), a specific age group (e.g. pediatrics), or specific procedures (e.g. oral surgery) |

**References**

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* <http://www.cse.chalmers.se/~feldt/courses/reqeng/examples/srs_example_2010_group2.pdf>
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**System Users**

For our system, there are 3 different types of users: patients, doctors, and third-party users.

Because this is a healthcare system, our primary users are the patients. As to our studies, they will be expecting several services to be offered by the website. It should help people identify their medical condition by typing their symptoms, searching for doctors available in the field, or reaching out for a specific doctor. They don’t need do sign up to access these services, unless they want to have a view of their medications and doctor appointments.

Throughout the development of this website, we are collecting information for our doctor’s database to ensure we are choosing the best doctors. Nevertheless, this website will remain updated continuously after its launching. Therefore, it is very important that we take into consideration doctors being an important user of the website. They will also be able to register into the website, but will be carefully selected before their profiles appear on the website for patients.

Our third-party users could be companies or schools who would like to use this website for this website for fast medication or as a database for doctors. The users could also be website creators that would like to have a view of how a healthcare system website looks like and works.

**System Interfaces**

**User Interfaces**

The UI should be easy to manipulate without additional training. The user should be able to interact with the system in any of the languages available in the language menu. The pages should use a ZUI graphical environment, should be built with a good sense of color and contrast, and should be printable, using keys. All pages of the system should be accessible from any page.

**Communication Interfaces**

Our Egy Healthcare system supports all web browsers. It shall use the HTTP protocol for communication over the internet.

**Hardware Interfaces**

All server-side components must execute on server-class computers. All client-side components must execute on workstation-class and personal-class computers.

**Software Interfaces**

Our website can run on several operating system such as Windows (XP, 7, 8, 8.1) or Mac OSX (Tiger, Leopard, Snow Leopard, Lion, Yosemite).

It will work on several web browsers as well such as Google Chrome, Internet Explorer (ver. 8 or later), Mozilla Firefox, Safari.

**System Functions**

**Use cases**

**1.Homepage**

A user was searching for a healthcare system so he opened our website. He saw a panel at the top of the page which contained “Home”, “About us”, “Sign up/Login”. At the left of this panel, he saw EGY Healthcare’s logo.

As a background picture, he saw a stethoscope. On the image were 3 buttons: The left on was had “Search for Symptoms” on it, the middle had “Search for a Department”, and the right had “Search for a Doctor”. The color of the buttons was blue and the website had blue as their theme color.

**2.About us**

A user wanted to know more about our website, so he clicked on “About us” on the top panel. He was redirected to another webpage with the top panel consistent in all of the website’s web pages. However, now the “About us” is now in blue, indicating where he is at now. He now found a background picture of a nurse. On the picture ,he read a paragraph which stated:

“**To book an appointment with a doctor has never been easier! With our new service , which offers an "online doctors directory" , users can now easily select a doctor according to their area and symptoms - or even search for a certain doctor by name - and read reviews about any doctor they choose. Our system allows them to easily track doctors' appointments and to have a full medical profile, which eases communication between the users and the doctors.”**

**3.Sign up/Login**

***-Login***

A user wanted to login through the website so he clicked on “Sign up/Login” on the top panel. He was redirected to another webpage. It was divided into 2 sectors. The left sector had an image of a doctor carrying a stethoscope. The right sector had the form to be filled by the user. Because he was a registered

user, he clicked on the red button at the bottom-left of the form which read “Already have an account”.

***-Sign up***

A user wanted to sign up through the website so he clicked on “Sign up/Login” on the top panel. He was redirected to another webpage. It was divided into 2 sectors. The left sector had an image of a doctor carrying a stethoscope. The right sector had the form to be filled by the user. Under the word “Sign Up” at the top of the form, it read “Please fill in this form to create an account”. The form required a First and Last name, an email address, a password, a confirmation of the password, and a gender tick. At the bottom right, there was a green button that read “Sign up” which he clicked after filling the form.