

Specification of Headache application

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1. Introduction

As part of our Well Being Technology course, we have to develop a headache mobile application, In this document we will present the context of our application, its objective and all its specifications functional and non-functional.

2. Context

Primary headaches such as migraines affect many individuals world wide and are caused by a mix of genetic and environmental factors. One of the best ways to get relief is to keep track of potential triggers, symptoms, and effective treatment methods. Mobile applications show great potential for the assessment and registration of information regarding headaches.

3. Goals and objective

Developing an application that allows migraine patients to maintain a headache diary. The goal is to provide a simple, quick and intuitive way for patients to communicate to their doctors their well-being.

4. Functional Requirements

These requirements specify the functionality that the application will provide to its users. The main interaction should involve a calendar where patients record data pertaining to their headaches and that doctors can monitor. Notifications included within applications can motivate users to draft headache diaries and provide as much information as possible in order to provide doctors the most information possible.

Doctor	<ol style="list-style-type: none">1. Simple connexion2. Search a patient by ID3. Visualize headache diary for a specific patient4. Visualize more information for a selected attack of a specific patient.
Patient	<ol style="list-style-type: none">1. Fill in a digital headache diary2. Keep track of headache triggers3. Indicate symptoms such as aura4. Select the site of pain5. Indicate intensity of headache6. Record lifestyle choices such as sleeping and eating habits.

5. Values Monitored

Symptoms	<ul style="list-style-type: none">• Nausea• Photophobia• Phonophobia
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	<ul style="list-style-type: none"> • Anxiety • Mood Alterations • Fatigue • Vomiting • Throbbing pain • Pulsating pain • Pounding pain
Aura Symptoms	<ul style="list-style-type: none"> • Visual distribution • Sensitive symptoms • Aphasia • Weakness • Tingling near eyes
Triggers	<ul style="list-style-type: none"> • Stress • Auditory • Fatigue • Fasting • Hormonal • Sleep • Weather • Visual • Olfactory • Alcohol
Medication	<ul style="list-style-type: none"> • Pain killers • Drugs
Position	<ul style="list-style-type: none"> • Select different region of the head, it can be in back head or front head.
Intensity	<ul style="list-style-type: none"> • Mild • Moderate • Intense
Duration	<ul style="list-style-type: none"> • Start time • End time

6. Non-functional Requirements

These are requirements that do not specifically address the behavior of the application but rather identify internal and external constraints of the application. The main non-functional needs of our application summarize in the following points:

- The solution should be clear to allow future developments or improvements.
- Ergonomics: The application offers a user-friendly and easy-to-use interface.
- Usability: Quick to use and intuitive.
- Security: The application must respect the confidentiality of the data.
- Maintainability: The application must have the possibility to correct or transform the software by adding and modifying the new functionalities.