Faculty of Computer Science and Engineering -Skopje Mobile information systems

TECHNICAL DOCUMENTAION

*Product name: Mental health app*

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|  | ***Prepared by:*** |
|  | Magdalena Petrushevska |

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# 1.Purpose and Scope

## 1.1 Purpose

The main purpose of this Technical Documentation document is to define and describe the functions and specifications of the “Help me” mobile mental health application. The document is intended to be used as documentation and reference in the future development of this application. In further sections, in clear terms and vocabulary are described the requirements, implementation and the use of the application.

The intended audience for this document is all the stakeholders including the developers and future users.

## 1.2 Scope

The name of the software product is “Help me” and it is going to be implemented into a mental health application for people that have problems with coping with stress, low mood, depression, and anxiety. The application is implemented using Flutter framework, which allows it to be used by both Android and iOS users.

# 2.Software Requirements

|  |  |
| --- | --- |
| *Priority Level* | *Description* |
| Priority 1 | Essential functionality |
| Priority 2 | Desirable functionality |
| Priority 3 | Extra features |

Table 1.1

## 2.1 Functional Requirements

*fr1.* The System shall be designed for a single type of user: Users who will use this app to help them cope with stress, low mood, depression, and anxiety. (Priority 1)

*fr2.* The application shall allow each user to enter the email of their psychotherapist and phone number of their emergency contact person. (Priority 1)

*fr3.* The System shall provide a current location of the user embedded into the emergency message content. (Priority 1)   
*fr4.* The system shall be able to present information about the mood information entered by the user on daily basis. (Priority 1)

*fr4.* The system shall be able to present generated recommended activities based on user’s current mood. (Priority 1)

*fr5.* The system shall allow users to choose which activity to take from the proposed activities. (Priority

1)   
*fr6.* The system shall be able to present more details about the chosen activity. (Priority 3)

*fr7.* The system shall allow users to choose from available mental health categories. (Priority 1)

*fr8.* The system shall be able to present generated motivation quotes. (Priority 1)

*fr9.* The system shall allow the users to listen to the articles. (Priority 1)   
*fr10.* The system shall be able to present mood history record to users. (Priority 2)

## 2.2 Non-Functional Requirements

*nr1.* The system shall provide all features to mobile devices. (Priority 1)

*nr2.* The system shall support users who have at least 0.5 Mbits/sec upload speed. (Priority 1) *nr3.* The system shall operate with a preference for dark and standard mode.

*nr4.* The system’s interface shall be responsive and adapt to screen resolutions ranging from 480x800px to

1920x1080px.  
*nr5.* The system shall respond in less than a half of a second. (Priority 1)

*nr6.* The system shall be readily used by all groups of users, even those with little training in information

technology, after a short introduction of 5 minutes. (Priority 1)

*nr7.* The system shall not be unavailable for more than 1 hour per 1000 hours of functioning. (Priority 1) *nr8.* The system shall recover in under 15 seconds after a failure 95% of the time. (Priority 1)

# 3.Product overview

This mental health app, helps their users learn new and better ways of coping with stress, low mood, depression, and anxiety.

It offers 4 main parts (Activities, Motivation, Tests and Articles) for improving mental health of users.

Based on how the user is feeling currently, recommends him a list of activities that can help him boosting his mood. The aim of every recommended activity is to help user in decreasing its stress level, helping him to remain calm and postive. Completing activities user earns rewards in the app, motivating him to take steps towards becoming healthier, happier, and more confident.

The Motivation section offers the user various useful quotes and tips that help the user increase his self-confidence, helps you stay focused on the way of achieving your goals and lift you up at the moment when you feel down and reluctant.

The tests section offers the users quick and easy way to determine whether a user is experiencing symptoms of a mental health condition, such as depression or anxiety. Based on the test results, the user will be provided with information, resources and tools to help him understand and improve his mental health.

The Articles section offers the user a wealth of mental health articles that can help user learn more about various mental health conditions, symptoms, as well as mental well-being techniques.

The user can also take a look at their list of all activities that the user has accomplished, so that user can track its progress over time. Also users can track their mood with "Mood history" section, that provides a report of feelings and emotions that user has experienced in the past month.

The user that will access the application will be able to enter their record for their daily mood.

There is no limit to how many mood records can be entered. This is left to the user to enter a record any time they need it. The history of entered mood records is available to user at anytime.

Also there is an option to send the mood history records by mail to their psychotherapist. This is especially usefull for those users who regularly attend psychotherapy sessions.

Using this mood history records, the psychotherapist can take a look at and draw appropriate conclusions about the psychological state of the user.

In order to use this feature, the user is required to enter email address of their psychotherapist.

The user has the option for emergency button. This feature is used in situation when the user needs help from the emergency contact person

to help them cope with their current mental health breakdown. The feature allows user to send direct message to their emergency contact person.

So that they can be alert that the concerned person has need of their emergency support. As part of the content of the message to be sent, is also the current location of the concerned user. Providing their emergency support person to give them instant information about the location of the person in need.

In order to use this feature, the user is required to enter phone number of their emergency contact person.

# 4. Mockups

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Diagram

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# Graphical user interface, text, chat or text message Description automatically generated

# System implementation

## Database connection

# User manual

## How to test the app

Here we will list the steps required to start using the application:

1. Download code from the github repository:  
   <https://github.com/magdalenapetrushevska/mental_health_flutter_app>
2. Next open the code in the Visual studio editor or other code editor of your choice
3. Connect your mobile device with your PC using the USB cable
4. Run the app (F5)
5. Well done. Now you have installed the app on your phone. Go ahead and start using it.

There are few features that you can use with this app. In the following we will give you some short intro of how to get started with each of them.

## Activites section – How to use?

Based on how the user is feeling currently, recommends him a list of activities that can help him boosting his mood. The aim of every recommended activity is to help user in decreasing its stress level, helping him to remain calm and postive. Once the user has done the activity it can mark it as complted. The user also has the possibility to take a look at the list od his activities that he has chosen to do so far.

Text, letter

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Description automatically generated with medium confidenceFirst of all, in order to use this functionality, one must click on the activities icon presented on the main screen. Then you will need to enter your current mood. The available options are ‘awful’, ‘bad’, ‘okay’, ‘good’, ‘great’. This will be used as input for generating recommended activities by the system. Next user has to choose which activites suits his mood the best and accept it as challenge. Once the user has done the activity, he needs to set the status od activity as ‘Completed’. Next the user is shown all the activities that he has chosen so far.

Graphical user interface

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Teams

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## Articles section – How to use?

The Articles section offers the user a wealth of mental health articles that can help user learn more about various mental health conditions, symptoms, as well as mental well-being techniques.

First of all, in order to use this functionality, one must click on the articles icon presented on the home screen. This will open a list of articles that the user can read. Next the user has to chosen an article of interest. This will generate a new screen where the user can read the artcle or he can click on ‘read’ button’ if he wants to listen to the automatic reader. This action can be stopped at any time.



A picture containing graphical user interface

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## Motivation section – How to use?

The Motivation section offers the user various useful quotes and tips that help the user increase his self-confidence, helps you stay focused on the way of achieving your goals and lift you up at the moment when you feel down and reluctant.

First of all, in order to use this functionality, one must click on the motivation icon presented on the home screen. This will generate random motivation quote. The user has the possibility to add that quote to its favorites quotes section. Consequently to that, there is a section for favorites quotes.

A picture containing graphical user interface

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Graphical user interface, application

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## Tests section – How to use?

The tests section offers the users quick and easy way to determine whether a user is experiencing symptoms of a mental health condition, such as depression or anxiety. Based on the test results, the user will be provided with information, resources and tools to help him understand and improve his mental health.

First of all, in order to use this functionality, one must click on the tests icon presented on the home screen. This will open a screen where the user can choose from the available mental health test categories: ‘anxiety’, ‘depression’, ‘OCD’, ‘imposter syndrome’. Based on the chosen test category, the user will be presented with total of 8 questions to anwser related to how does he feels over the last two weeks. Then based on his answers, the result is presented and show the user whether he has mild or severe anxiety/depression/OCD/imposter syndrome.

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