

APPENDIX A

BASIC REQUIREMENTS FOR THE SPECIFICATION OF QUALIFICATION WORK

1 INTRODUCTION

1.1 Project overview

The product is a software system to help people understand their emotions, as well as keep records.

1.2 Purpose

The aim of the work is to create a software product that will allow the user to add a record with the current choice of their emotions, adding extra information on the record, the choice of date and time. View the history of your records. Modality of their editing. Ability to delete an entry. Ability to view statistics of records in the form of a chart. Ability to customize the interface, language and reminders to add records. The purpose of this document is to describe the basic product requirements. The requirements are described in the form of short functional and non-functional requirements, as well as product quality requirements.

1.3 Scope

The product is designed for absolutely any user, as everyone needs to understand themselves and improve their emotional intelligence. It's like charging in the morning, no one will be superfluous.

1.4 Короткий зміст

This document contains the following information:

- product description;
- classification of users and their characteristics;
- requirements for the visual interface;
- requirements (functional);
- requirements (non-functional).

1.5 Definitions and abbreviations

UML – unified modeling language;

UI – user interface;

UX – experience of interaction;

MVVM is an application architecture design template.

2 GENERAL DESCRIPTION

2.1 Product prospects

This product has a lot of prospects. One of them is the ability to analyze the state of the user and track his condition, or the condition of entire areas and how, for example, the situation in the country affects people. The system will implement functionality that will help users understand themselves. Reflect his progress, statistics that provide an opportunity to understand what emotions prevail and what to work with.

In the future, it will be possible to develop this system to provide more accurate data thanks to neural networks that will adapt to each user as each person is unique and many factors that affect it.

2.2 Product functions

The following features must be present in the product:

- adding a record;
- editing the record;
- delete the record;
- formation of history;
- formation of statistics;
- theme settings;
- language settings;
- setting reminders.

2.3 User characteristics

The product is designed for absolutely any user.

The user needs to have an Android device, have the skills to use the phone and have at least a minimal idea of emotions.

2.4 General restrictions

2.4.1 Operating environment

The program will run on the Android operating system. At least version 19 of minSdkVersion will be used to compile the APK file.

2.4.2 Development technology

Software development should be carried out using the Kotlin software language, architecture using the MVVM pattern, navigation with the help of Android Architecture Components. You need to stick to the basic color scheme to maintain a dark and light theme.

3 SPECIFIC REQUIREMENTS

3.1 Interface requirements

3.1.1. User interface

The interface should be convenient and practical, located and arranged reasonably and clearly, meet human physiology, should not lead to negative consequences for the user's body. Also adaptable to the screen size of the device. There must be a logical interface so that the user can understand everything that is happening on the screen.

3.1.2. Hardware interface

Necessary equipment to ensure the implementation of all functionalities of the software system:

- android-device.

3.2 Functional requirements

3.2.1. Add an entry

The system should be able to add a record of the user's current emotions.

3.2.2. History formation

You must display each entry on a separate tab.

3.2.3. Edit entries, delete them

The application should provide the ability to edit the record and delete it at the request of the user.

3.2.4. Formation of statistics

After adding at least 15 records, form a chart showing statistics on the added records/emotions.

3.2.5. Settings

You need to add theme settings, language and the ability to delete all user data.

3.2.6. Alarm settings

You need to be able to edit the reminder time when you need to record or turn it off completely.

