TECHNICAL DOCUMENTATION

[Project]

TEAM: Authors

DATA: 04.10.2024

Operator notes:

All instructional text is displayed in blue font colour in the template. These should be deleted prior to the document being distributed for review and approval.

Update text within square brackets which is placeholder text with relevant text.

# History of technical documentation

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**Version history**

| Version | Data | Author | Descripton |
| --- | --- | --- | --- |
| V1 | 10.10.2024 | Vadym | We established functional and non-func. requirements. |
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# Introduction

## System Objectives

A brief description of the purpose of this document, defining the requirements of the user(s).

## System scope

A definition of the scope of the project. What needs to be fulfilled?

# Requirements specification

## System requirements

### Functional requirements

| **No** | **Requirement** | **Priority** |
| --- | --- | --- |
| 1.1 | Upon entering an existing account, system shall present user with inteface to create a new project or choose one, that user has already worked on, by presenting a list of user`s projects and showing "Create new project" button. |  |
| 1.2 | Interface will have a directory at the left part of the screen that will allow a user to choose a specific file. |  |
| 1.3 | System shall allow user to open files in windows inside application, which user can select in a bar. |  |
| 2.1 | System shall present a user with an interface for logging into an existing account, allowing user to enter username and password or move to an interface of registration |  |
| 2.2 | In case, user is not logged into an existing account, user shall allowed to open only registartion or interface. |  |
| 2.3 | Upon opening application, system shall present user with an interface for creating an account, allowing user to either enter username, email and password to create and account or move to an interface for loggin into an existing account. |  |
| 3.1 | System shall record all changes that users make to every file and store them using relevant storage system and allow access logs presenting an interface with all changes. |  |
| 3.2 | On change from either user of project, system must synchronize all changes and show current state of file to the users by means of reloading their current file and adding changes |  |
| 4 | Interface will have a switcher/slider at the right upper corn of the screen and shortcut "Ctrl + T" in order to change a theme (dark/white mode). |  |
| 5 | System will have an interface (a list of all the users concerned to the project and their access privilege) that allows the owner to access and revoke the access. |  |
| 6 | System shall present user a button that saves entire project in the directory by means of presenting with an interface in which the user can choose saving opportunities. |  |
| 7 | Interface will have a system terminal inside of UI at the bottom of the screen and run commands in it |  |

### Non-functional requirements

| **No** | **Requirement** | **Priority** |
| --- | --- | --- |
| 1.1 | System shall allow user to choose a project to work with. |  |
| 1.2 | System must present all files in given project. |  |
| 1.3 | System shall allow user to open multiple files. |  |
| 2.1 | System cannot be accessed without logging into an existing account. |  |
| 2.2 | System shall allow user to log into and existing account. |  |
| 2.3 | System shall allow user to create an account. |  |
| 3.1 | System must track and log all changes made by all users. |  |
| 3.2 | System must synchronize all changes and show current state of files to all concerned users. |  |
| 4 | Interface will allow user to choose/switch a theme (dark/white mode) |  |
| 5 | System shall allow owner to add and revoke an access to the project for other users. |  |
| 6 | System shall save all projects on local & remote environment that given user has worked on. |  |
| 7 | Open terminal inside of UI. |  |

## Study of user requirements

### User stories

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **As a** **[persona]** | **I [want to]** | **та** **[so that]** | **points of story** |
| 1 | Customer | I want to be able to browse all files of project inside of my local environment |  |  |
| 2 | Customer | I want to be able to log in into app and open projects that I have previously worked on. |  |  |
| 3 | Customer | I want to see logs of changes to a given file made both by me and my co-workers |  |  |
| 4 | Customer | I want to have dark/white mode of the interface |  |  |
| 5 | Customer | I want to have different roles in order to separate accessibility of users |  |  |
| 6 | Customer | I want to be able to open/edit/save all files of project on both my local and remote environment. |  |  |
| 7 | Customer | I want to be able to open system terminal inside of the application & run the files in it. |  |  |

### Acceptance Criteria for User Stories

|  |  |
| --- | --- |
| **User story Number** | Acceptance Criteria |
|  |  |
|  |  |
|  |  |

# Conceptual system design

## Software architecture

*Implementation diagram*

## Decomposition of the system into modules

Component diagram

## Conceptual Data Base model

ER diagram

# Resorces

## Acronyms

An explanation of any specific terms / acronyms used in this document.

| **Acronym** | **Description** |
| --- | --- |
|  |  |
|  |  |
|  |  |

## Others

Internet sites from which the information was taken.