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|  | Easy Attendance | |
|  | Software Requirements | |
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Document Approval

|  |  |  |  |
| --- | --- | --- | --- |
| Role | Name | Title | Date |
| Authors | Danielle Zand |  |  |
| Reviewers | Ester Abargel |  |  |
| Shahar Furer |  |  |
| Tehila Uzan |  |  |
| Approval | Yossi Zaguri |  |  |

Change Control

|  |  |  |  |
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# Introduction

This document contains detailed software requirements for development of the proposed Easy Attendance application.

1. The proposed product is currently in the design phase of development. Make sure you use the final and approved version of the Product Requirements before implementing the design.

## Purpose

The purpose of this document is limited to development of the proposed product (as described in the approved Product Requirements). This document does not contain information about previous versions or specific customizations.

## Intended Audience

This document is for use by product managers, system architects, system engineers and application developers and all other personnel who are involved in the development of the proposed product.

## Intended Use

N/A

## Scope

This product main goal is to provide an easy way of work attending method. For working people from office or home, who wants to be able to maintain their attendance details easily using phone application and without extra effort.

Currently most of the attendance clock products are not accessible by mobile application and they are missing various of features that could make the daily report easier for the user.

## Definition and Acronyms

N/A

# Overall Description

## User Needs

**Employ**

* Fill in/out report by one click
* Get summary of attendance report per month in PDF
* Calculate the expected salary for hourly paid employees
* View the remaining vacations and sickness days

**Manager**

* View employs list
* Modify employ password
* View employ reports
* Get alert on specific events

## Assumptions and Dependencies

In case there is no internet connection, it is not possible to access the database and update the attendance status. In such case it should be possible to update in a retroactive way the attendance time.

# System Features and Requirements

## Functional Requirements

Requirement ID – EA301010, Fill in/out by click button, Priority – must

User shall have main screen with 2 button- In, Out.

Pressing on each of the buttons will automatically save the current time in the database.

Requirement ID – EA301020, Fill in/out retroactive, Priority – must

One of the menu options will be retroactive attendance. Choosing the option will open new screen that shall give the option to choose a date and fill in/out times for this specific date. The times should be in the format of hour-minutes.

Requirement ID – EA301030, PDF month report, Priority – must

One of the menu options will be generate report. Choosing this option will open new screen. In this screen the user could choose specific month by scroll down menu and then press on another button to generate the PDF. The PDF shall be open on the device.

Requirement ID – EA301040, Salary calculator, Priority – must

User shall have dedicated screen for salary calculator. The screen should contain textual box for his salary per hour and calculate button. An algorithm should run in the background to calculate the employ salary, taking into account extra hours- 100%, 125%, 150% and 200%. The salary shall appear in popup message.

Requirement ID – EA301050, Vacation/sickness days summary, Priority – must

User shall have dedicated screen for viewing his vacation/sickness days status. The user could see how many days he gained and can use, divided by type- vacation, sickness.

Requirement ID – EA301060, Missing report alerts, Priority – must

User could get alerts if he forgot to fill his daily reports as a remainder. This alert should be enabled by configuration in the setting screen. The same alert should be sent to the manager for each of the employs, according to the manager configuration. If employ disable the configuration the manager will still get the alert if he requests to enable the alerts.

Requirement ID – EA301070, Automatic fill in/out by coordinates, Priority – must

User could enable automatic fill feature by configuration in the setting window. This feature if he enabled will automatically fill in/out according the coordinates. The coordinates of the workspace will be saved in the DB and if the user enter the area of the coordinates, and this is the first time on this day, the time will be saved as in report. If this is the second time the time will be saved as out record.

Requirement ID – EA301080, Manu button with list of modules, Priority – must

In the left side of the screen there should be a button the by pressing will open menu of all optional modules- salary calculator, vacation days summary, month reports, etc.

Requirement ID – EA301090, Manager screen, Priority – must

While login as manager account the manager shall have the option to view his list of employs, reset their password and view their attendance reports.

The main screen will be table of employs, and in each line will be: ID, reset password(button) and view report(button).

Pressing in each of the button will open the relevant screen/popup.

Requirement ID – EA301100, Settings screen, Priority – must

The user shall have setting screen, that in this screen he could set the application setting.  
The user could enable or disable alerts in the screen, or enable/disable automatic fill by coordinate and so on.

Requirement ID – EA301110, Menu, Priority – must

After login, the main screen will contain in the right upper corner menu button. The menu will have list of all optional screen- main, reports, setting, etc.

Requirement ID – EA301120, Login screen, Priority – must

The first screen while opening the application shall be login screen. The login screen shall contain user and password text boxes and login button. In addition, the login screen shall contain another password for creating account in case the user doesn’t have one. Please refer to EA301120

Requirement ID – EA301130, Register screen, Priority – must

As mentioned in EA301110, the user could navigate to the register screen from the login screen. The register screen will contain several text boxes for user details- user name, password, email, ID, organization key, etc.

The organization key is a unique key per workplace. For each organization key one manager is allowed.

To set the account as manager there is dedicated button in the registration key, that will be enabled only if there is no existing manager for this organization key.

Under the text boxes a button of sigh up shall appear to finish the registration process.

Requirement ID – EA301140, User types, Priority – must

The system shall support 2 type of users- regular user(employ) and administrator user(manager).

The regular user and the manager user shall differ by their permissions and their optional screens.

## External Interface Requirements

### User

Requirement ID – EA3020010010, Supported devices and browsers, Priority – must

The system shall support all type of devices, and chrome browser.

### Hardware

N/A

### Software

Requirement ID – EA3020030010, Firebase DB, Priority – must

Users information and reports shall be saved in Firebase DB

Requirement ID – EA3020030020, Data model, Priority – must

The Firebase DB is not relational DB and save the data in JSON format.

The data shall be saved in the following hierarchy:

<UUID>

<Year>

<Month>

<Day>

<Entry> </Entry>

<Exit> </Exit>

### Communications

N/A

## System Features

N/A

## Nonfunctional Requirements

### Performance

N/A

### Safety

N/A

### Security

Requirement ID – EA3040030010, User permissions, Priority – must

User shall see and modify only his data according to his user and password and permission. If the user is a manager, he could also see and modify his employs data.

The data should be saved in the DB by unique user ID, so the data retrieval should be unique also.

### Quality

N/A

# Change Management

Describe the process to update the SRD when there are changes to the project scope or requirements.

N/A