

Software Requirements Specification (SRS) Template

Shiftter

Shifts management - 6

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Software Requirements Specification

Document

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1. Introduction

*This document is prepared in order to determine a software requirement specification for **shifter**. **shifter** is a work-days and shifts management platform that is designed for managing a working group in an orderly manner such as salary arrangement , detailing a work shifts reports, time clock, and more.*

*Firstly, the purpose and scope of this document will be given, then and overall description of **shifter** system is followed.*

1.1 Purpose

This document describes the software requirements and specification for working environment platform.

1.2 Scope

Unlike most products available on the todays market (like JBClock) that use hardware, our platform does not use hardware at all.

Our product will allow full access through the personal mobile devices, which makes it possible to present relevant information in an accessible way.

1.3 Definitions, Acronyms, and Abbreviations.

*When the user logs in **shifter**, they can see their home page that varies according to user nature.*

1.4 References

Github link - https://github.com/Yotam124/FinalProject_Shiftter.git

1.5 Overview

- (1) The rest of the SRS contains: Main fitures, Overall Description, Requirements.*
- (2) Customers/potential users care about section 2, developers care about section 3.*

2. The Overall Description

Describe the general factors that affect the product and its requirements. This section does not state specific requirements. Instead, it provides a background for those requirements, which are defined in section 3, and makes them easier to understand. In a

sense, this section tells the requirements in plain English for the consumption of the customer. Section3 will contain a specification written for the developers.

2.1 Product Perspective

shifter is an independent platform that divided into two types of users. Manager account involves payment while users can use and register for free.

2.1.1 System Interfaces

- *Google maps.*
- *Phone calander.*
- *Phone camera.*
- *Face recognition.*

2.1.2 Interfaces

Specify:

- (1) Mobile phone (Android or IOS) with camera and GPS.*
- (2) Network connection.*
- (3) GUI application.*

2.1.3 Software Interfaces

This system is on server so it requires the any scripting language like JavaScript etc. The system require Data Base also for the store the any transaction of the system.

2.1.4 Communications Interfaces

shifter communicate with its database system via a communication network.

2.1.5 Operations

The hardware, software and technology used should have following specification:

- *Ability to connect to the wifi or mobile network.*
- *Ability to exchange data over the network.*
- *Touch screen for convenience.*
- *Ability to use camera, gps, and other service of mobile.*
- *Android or IOS mobile phones.*

2.2 Product Functions

Main Features:

Manager:

- *Arranging weekly work shifts*
- *Opening and managing a working group*
- *To keep track on the shifts of his employees*
- *Managing employees shifts (Remove, Edit, Add)*

Regular:

- *Check in and out (shift/work-day)*
- *Keep track of shifts details*
- *Choosing a desired work arrangement*

System:

- *GEO-location*
- *Face recognition*
- *Real-time salary calculation*
- *Machine Learning*

2.3 User Characteristics

shifter does not require any specific knowledge to use it except the developers and administrators of it. Standart users are thought to be from any gender, country and age (Must be of legal age to work).

2.4 Constraints

The software should ensure the safety of the information given by the user.

shifter does not reveal the details at all, when a user wants to join a particular workgroup, it allows the group administrator to be exposed to the details associated with that group only. In addition, the user will be shown to the group members using a name.

2.5 Assumptions and Dependencies

- *Network and data availability.*
- *Power supply.*
- *Connection for exchanging data over network.*
- *Availability of mobile service.*

3. Specific Requirements

This section contains all the software requirements

3.1 Functions

Regular user account

Functional requirement 1

- **Description**
User Registration.
User must be able to register for the application through a valid Email.
The user's Email will be the unique identifier of his/her account on “///”
- **Input**
Email address entered.
- **Processing**
Verify Email.
- **Output**
Verified proceed further.

Functional requirement 2

- **Description**
Accepting work-group invitation.
When someone add user to group, user can accept.
- **Input**
Click 'accept'.
- **Processing**
User added to the list of employees of this specific work group, work group added to user's list of work groups.
- **Output**
User/work-group added.

Functional requirement 3

- **Description**
Create weekly work schedule.
User can fix his weekly shifts.
- **Input**
Click 'weekly schedule', add wanted shifts, click 'save'.
- **Processing**
Wanted shifts sent to manager.
- **Output**
Temporary schedule created.

Functional requirement 4

- **Description**
Report start and end of work day/shift.
User need to report when he/she entered and exit work.
- **Input**
Click enter/exit button.
- **Processing**
When click button to enter the button switch to exit (time start running).
When click button to exit the button switch back (time stop running).
Both enter and exit verify the identity and location of the user.
- **Output**
Shift/work-day saved.

Functional requirement 5

- **Description**
Leave work group.
User can leave group.
- **Input**
Click 'leave'.
- **Processing**
The user is deleted from the group's members list and the work group is deleted from the group's list.
Notify manager.
- **Output**
Removed, notification sent.

Manager account

Functional requirement 1

- **Description**
Create work group.

User can open new work group and add employees.

- **Input**
Click 'create group', name group, details, add employees, click 'save'.
- **Processing**
When user click 'save' the work group added to his groups list.
- **Output**
Work group created.

Functional requirement 2

- **Description**
Sending work-group invitation.
User can add someone to his own exist work-group.
- **Input**
Click 'Add member', search by email, click 'Add'.
- **Processing**
When user search for the member, he will see a list where he can choose and add.
- **Output**
Request sent.

Functional requirement 3

- **Description**
Set weekly shifts.
Manager need to set weekly shifts schedule after receiving temporary schedules from his employees.
- **Input**
Click 'weekly schedule', fix shifts, click 'save'.
- **Processing**
Wanted shifts sent to manager.
- **Output**
Temporary schedule created.

Functional requirement 4

- **Description**
Remove member.
Manager can remove member from his/her's work group.
- **Input**
Choose member, click 'remove member'.
- **Processing**
The member is deleted from the group's members list and the work group is deleted from the member's group list.

Notify member.

- **Output**
Removed, notification sent.

Functional requirement 5

- **Description**
Broadcast.
Manager can send a message to all members at once.
- **Input**
Manager's message.
- **Processing**
Send message to all of his work group members.
- **Output**
Message sent.

Functional requirement 6

- **Description**
Edit member details.
Manager can edit member's details such as shifts/work-days, member info etc.
- **Input**
Choose member, click 'edit', enter new details, click 'save'.
- **Processing**
Update member's info.
Notify member.
- **Output**
Changes saved, notification sent.

Functional requirement 6

- **Description**
Edit work group details.
Manager can edit work group details such as name, description etc.
- **Input**
Click 'edit work group', enter new details, click 'save'.
- **Processing**
Update work group info.

- **Output**
Changes saved.

Both accounts

Functional requirement 1

- **Description**
Edit personal details.
User can edit his personal details such as photo, name etc.
- **Input**
Click 'profile', click 'edit profile', enter new details, click 'update'.
- **Processing**
Update personal details.
- **Output**
Changes saved.

3.2 Logical Database Requirements

Erd attached page 14.

3.3 Software System Attributes

3.3.1 Reliability

The main pillar of the reliability of the system is the backup of the database which is continuously maintained and updated to reflect the most recent changes.

3.3.2 Availability

The system should be available at all times, meaning the user can access it using mobile app. In case of hardware failure or database corruption, a message will be sent to the device accordingly.

In case of that, backups of the database should be retrieved from the server and saved by the administrator.

Then the service will be restarted. It means 24x7 availability.

3.3.3 Security

The one and only factor that will protect and regulate the information only for those who have permission to see it is the firebase in developer management.

Here are the permissions to view and change your information:

- *Each company's information will remain private, and only it can be viewed or used at will.*
- *In particular, the personal information of any employee of a particular company will be private only to him or her on behalf of the company.*
- *The company has the right to change some of the information about a particular employee (of course, information that is only related to the company coming in).*

4. Document Approvals

[YOUR SUPERVISOR]

Identify the approvers of the SRS document. Approver name, signature, and date should be used - Yossi zagori

ERD

Software Requirements Specifications Document

