
Software Requirements Specification

for

ContractMe

Version 1.0 approved

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<organization>

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Revision History

Name	Date	Reason For Changes	Version
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Team	21/11/20	Fix mistakes in the SRS	1.0
Team	02/12/20	4.3, 2.7	1.1
Team	04/12/20	2.2	1.2

1. Introduction

1.1 Purpose

The SRS is used to review the product and its cause, preparation for the upcoming writing of the code, general explanation of the system, so everyone who is concerned would understand the purpose and the features.

The system concentrates all of the contractors, and the employers can hire by their skills and needs.

1.2 Document Conventions

The code will be written in CPP language, in OS windows 10 64bit.

1.3 Intended Audience and Reading Suggestions

The intended audience of this document are HR company, project owners, developers, marketing staff, QA, Ui Ux.

1.4 Product Scope

The system is managing hiring contractor workers in an easy and convenient way and allows an efficient recruitment process. In addition, the HR company can get statistics analysis in real time. The system allows hiring opportunities easily with diverse filtering options, and that will save time, resources and costs.

1.5 References

SRS template.
Figma designs.

2. Overall Description

2.1 Product Perspective

This product is a new system to create projects and search for suitable **workers in the software field** by search filters like hourly payment and also workers can track their work hours and monthly wage.

The purpose of this software is to find a maximum match between the needs of employers to contractor workers and managing the company database.

This app helps to improve communication between workers and project owners.

2.2 Product Functions

2.2.1 Log-in:

users will be able to log in by email or Google account and password and transfer to the right menu. In addition employers can sign up by themselves.

2.2.2 sign-up

A sign up function. Only the employer can sign-up to the system.

2.2.3 Contractor workers

2.2.3.1 Work history

The worker can watch his work history, he would be able to watch the hours he is already done and his salary until now.

2.2.3.2 Reporting workday and vacation

The worker can update his daily hours and when he is taking vacation.

2.2.3.3 edit details

The contractor can edit his details for example area, wage and skills.

2.2.4 Human resources company workers menu

2.2.4.1 adding a new contractor worker

Adding a new contractor worker to the system will be done by human resources company workers by filling their personal details, his interests, and his hourly pay.

2.2.4.2 Monitor hiring

The company can track the hiring process.

2.2.4.3 workers feed - edit work day

The company will have the ability to monitor the contractor workers attendance clock according to the workers details, to report mistakes and to make the necessary changes.

2.2.4.4 Monitoring statistic analysis

The company can view the statistical analysis by three criterions like how many contractor workers and employers there is in the system and how many of them actually got hired.

2.2.5 employers menu

2.2.5.1 employers search and book

The employers can search and book the services of a contractor worker by few filters such as interest, region, hourly pay and work date.

Contractor that has already been booked on the search day cannot be booked and won't appear on the search.

2.2.5.2 hiring history

The employers are able to see their hiring history.

2.2.6 Technical support

Any user can switch and move to the technical support at any stage of the process.

2.2.7 log-out

Log out the system and return to the main menu.

2.3 User Classes and Characteristics

There are three types of users :contractors workers, human resources company workers and employers.

The contractor workers will have limited access only for their personal details, work days and vacations.

The human resources company workers will have extensive access . They would be able to approach the contractors workers' details and see statistical information.

The employers have limited features such as search for a worker, hiring and watch hiring history.

2.4 Operating Environment

The system runs on iOS and Android, and will be available for download on App store.

2.5 Design and Implementation Constraints

An internet connection is a must to run the app.

Another constraint is disk space for the database in order to save all the employers and contractor workers details.

Also, the program language can constrain us by running slow and not enough memory.

2.6 User Documentation

The user will be trained to use the system correctly by the representative of the HR company.

2.7 Assumptions and Dependencies

Our assumption is that the database will be created by the company managers.

The system will need live access to the database, otherwise it would not work.

The contractors will get their login information from the HR.

In addition, we assume that if the user is in his menu, the home button will sign out the user.

The HR workers are already written in the user database.

The hours of hiring contractors by the employer will be written in the database of 'work History' as (-1).

We are assuming that every month has 31 days.

The name of the user will include only the private name.

The places of the users can be : north, center, south.

The wage is an integer .

The work hours are complete.

3. External Interface Requirements

3.1 User Interfaces

First, the login page appears where you enter an email and password (see Figure 1). The sign appears in Figure 0.

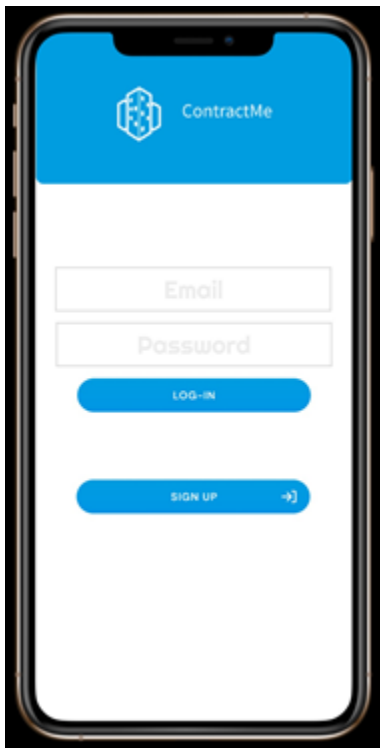


Figure 1

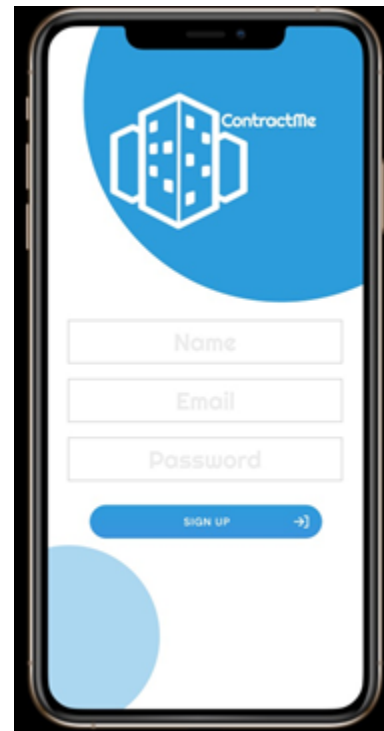


Figure 0

After log in, each user will be redirected to his appropriate menu.

The employers will be redirected to the menu in figure 2, the contractor workers will be transferred to the page in figure 3 and the HR company workers will be redirected to the menu in figure 4.



Figure 2

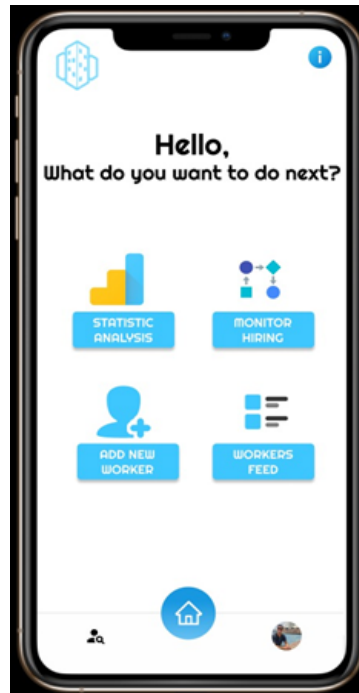


Figure 4

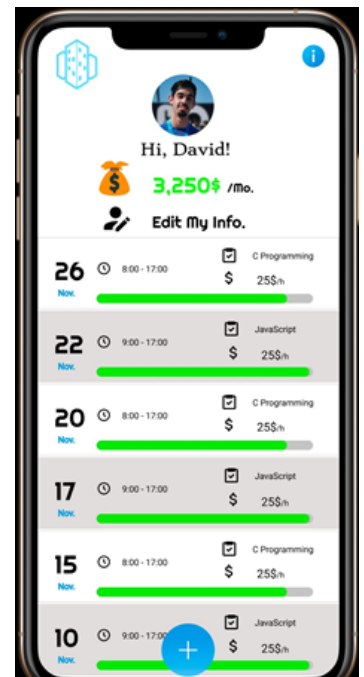
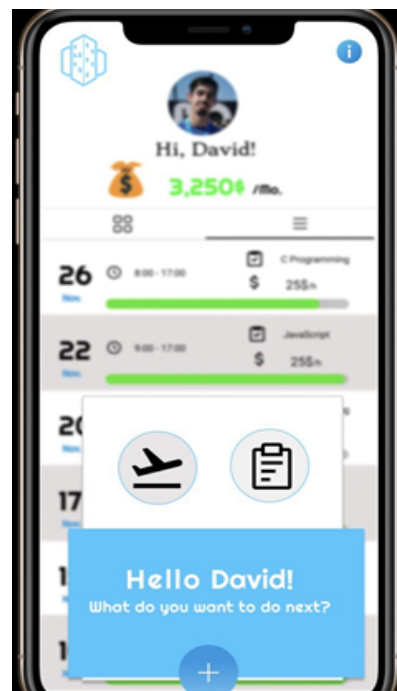


Figure 3

The contractor workers can press the '+' button he will transfer to the reporting page (figure 5). There he can choose between reporting work day or vacation. Reporting work day and vacation is in figure 6 and figure 7. In addition he can press on the edit and edit his details.

Figure 5



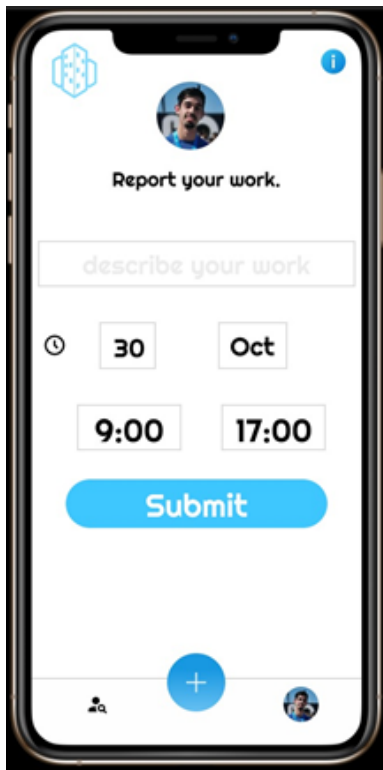


Figure 6

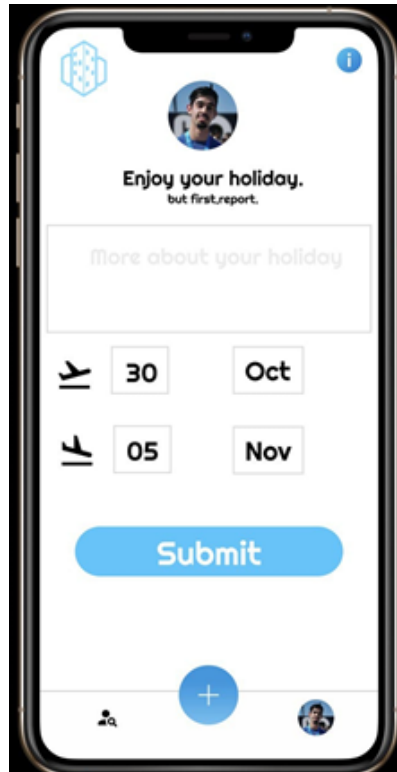


Figure 7



Figure 8

In the employers menu there is a choice between hiring history and search contractor. If he will choose the hiring history he will be transferred to figure 9 and if he will choose to search for a contractor he will be transferred to figure 10.

Figure 9

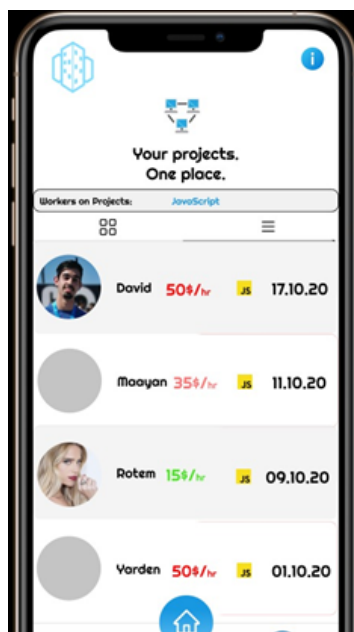
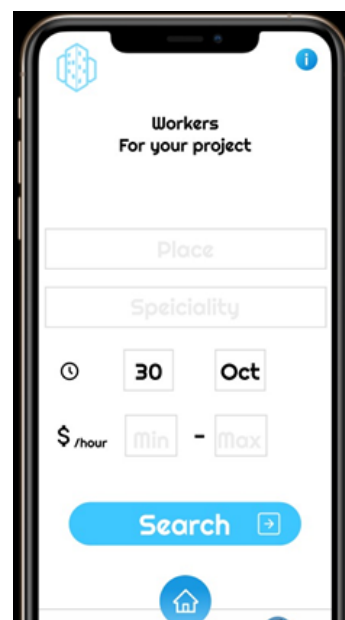


Figure 10



After the user clicks the button 'Search' he will get the results for his needs as can be seen in the figure 11.

Figure 11

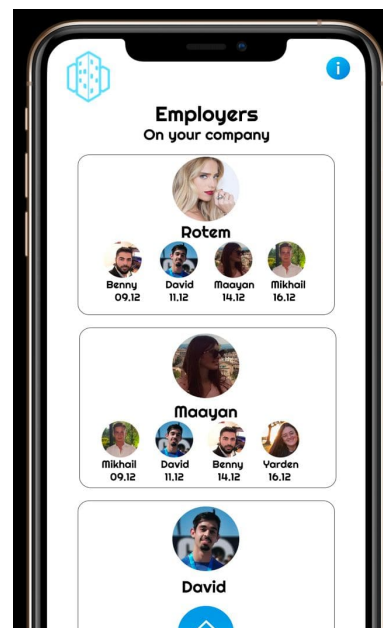


The HR company workers can choose in their menu between four options. If they click on statistics analysis they will transfer to figure 12, clicks on the monitor hiring they will transfer to figure 13, clicks on add new contractor transferred him to figure 14 and clicks on the workers feed will transfer to figure 15. After choosing a worker in figure 15 will open figure 16.



Figure 12

Figure 13



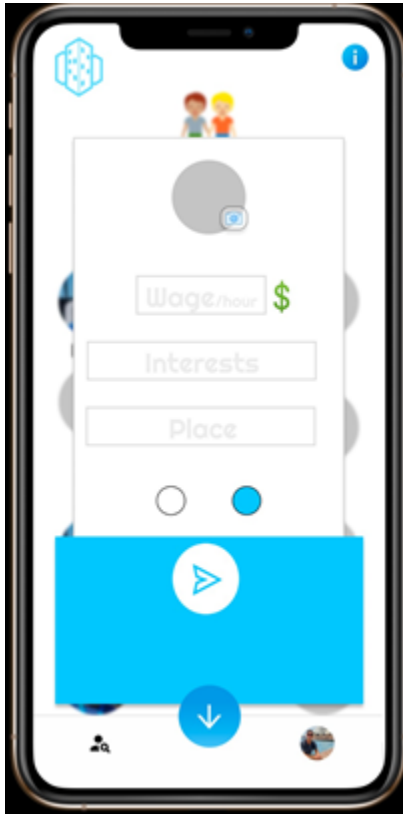


Figure 14

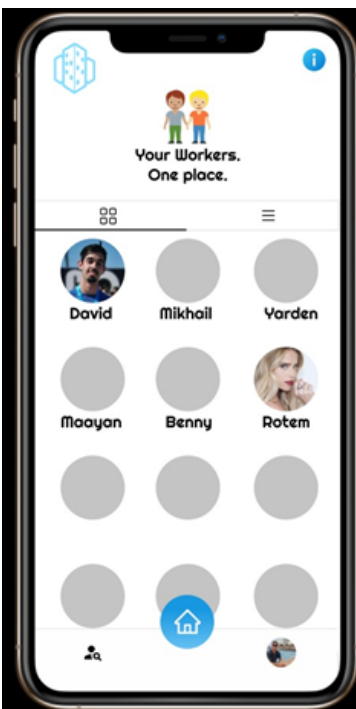
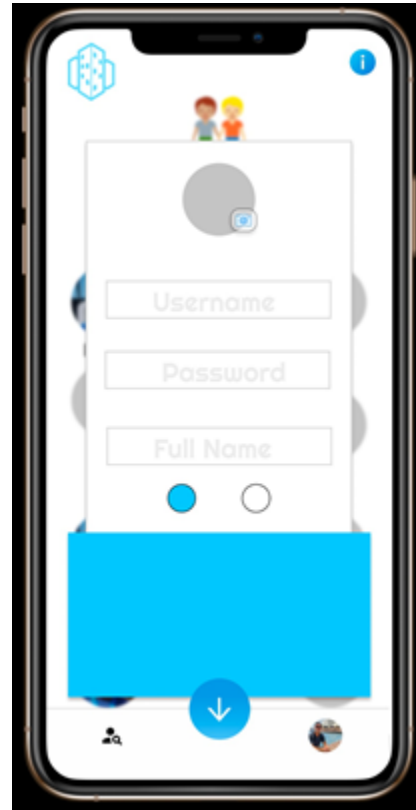
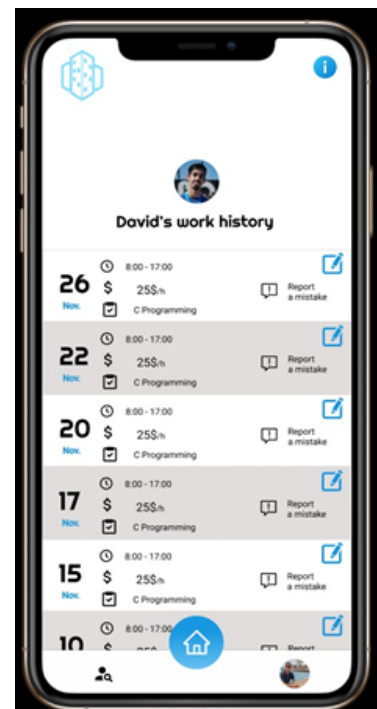


Figure 15

Figure 16



On every page, there is an 'i' button that provides technical support (figure 17).

Figure 17



3.2 Hardware Interfaces

The app supports mobile phones based on Android and iOS.

3.3 Software Interfaces

There is no need to install additional software to use an app.

3.4 Communications Interfaces

The application will utilize the networking hardware of the user's device. Network communications capability will be used for authentication, getting users type and connecting to remote databases.

4. System Features

4.1 *Filter feature*

4.1.1 Description and Priority

The filter feature will try to find the maximal potential deal between the customers needs to the contractors offering these needs, by the contractors skills and pricing.

This feature has high priority because it's responsible for the system efficiency.

4.1.2 Stimulus/Response Sequences

The Employers will fill the features they seek in the database for a contractor, by hourly fee, skills, etc. After they fill the details, the best potential contractors will be given from a list to choose from.

4.1.3 Functional Requirements

Firstly, the employer inputs username and password.

Afterwards he will be directed to the employers menu.

When the employer searches for a worker, he can filter his requirements by region, price range, date, and specialization

Incorrect input will lead to a message error which will notify what to correct.

4.2 Technical support

4.2.1 Description and priority

This feature allows the users to report a bug or a problem in the system.

A representative will provide an immediate solution if available, if not, he will contact the user as soon as a solution is found.

This feature has medium priority.

4.2.2 Stimulus/Response Sequences

An "i" button is available on every page, when clicked on, will be directed to the technical support page, where the user could detail on the bug/problem he found.

4.2.3 Functional Requirements

A representative of the company will receive the bug report and provide a solution.

4.3 Home Button

4.3.1 Description and priority

This feature allows the users at the end of every function to return to the main menu of the current user.

This feature has high priority because it's responsible for returning all the users to their menu .

4.3.2 Stimulus/Response Sequences

The Home button is available on every page, when clicked on, will be directed to the main menu of the current user.

4.3.3 Functional Requirements

If the home button is pressed while on the main menu, it will sign out from the system.

The user must be logged in to be able to use the button.

4.4 Login

4.4.1 Description and priority

The Login feature is with high priority because it will determine how the system will operate and will be given access to different menus based on the user type.

4.4.2 Stimulus/Response Sequences

The Login is available only at the start of the application. After the registration the system will check the user type and redirected him to the appropriate menu.

4.4.3 Functional Requirements

Each user must have a username and a password. The HR will provide these details to the contractors. and the employers will get theirs by signing up. When those are entered, the system checks if the user and the password are correct, an error is displayed if incorrect, with an option to fix.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

*The product must be on a device with an internet connection available.
Also, it must have a backup to the database as well as security
Every user must have an email account.*

5.2 Safety Requirements

Most important requirement is a daily backup to the system.
Also an option for the user to report a bug or malfunction.

5.3 Security Requirements

The possible risk of using this product is the leakage of personal information as well as statistics reports.
The possible loss to damage that could result from the use of the product by leakage of personal information as well as statistics reports.
For each type of person (Manager, Employee, HR) will have a different menu in order to keep the database secure.

5.4 Software Quality Attributes

The application is Free to download.
The software is compact, user friendly and easy to use.
Technical support is available 24/7.
Hiring opportunities.
Flexible for future changes
The application is sorted by location for comfort.
Advanced technology.

5.5 Business Rules

HR->Employees->Contractors
Only the HR workers can access the statistics analysis to get information, and to the database to add or delete a new contractor to the system.
They can make adjustments in contractors daily hours reports.
The contractors can update unavailability times and availability.
Communication with the financial department to take care of the employers salaries.

6. Other Requirements

All requirements were mentioned above.

Appendix A: Glossary

Gui - Graphical user interface

HR - Human resource

OS – Operating System

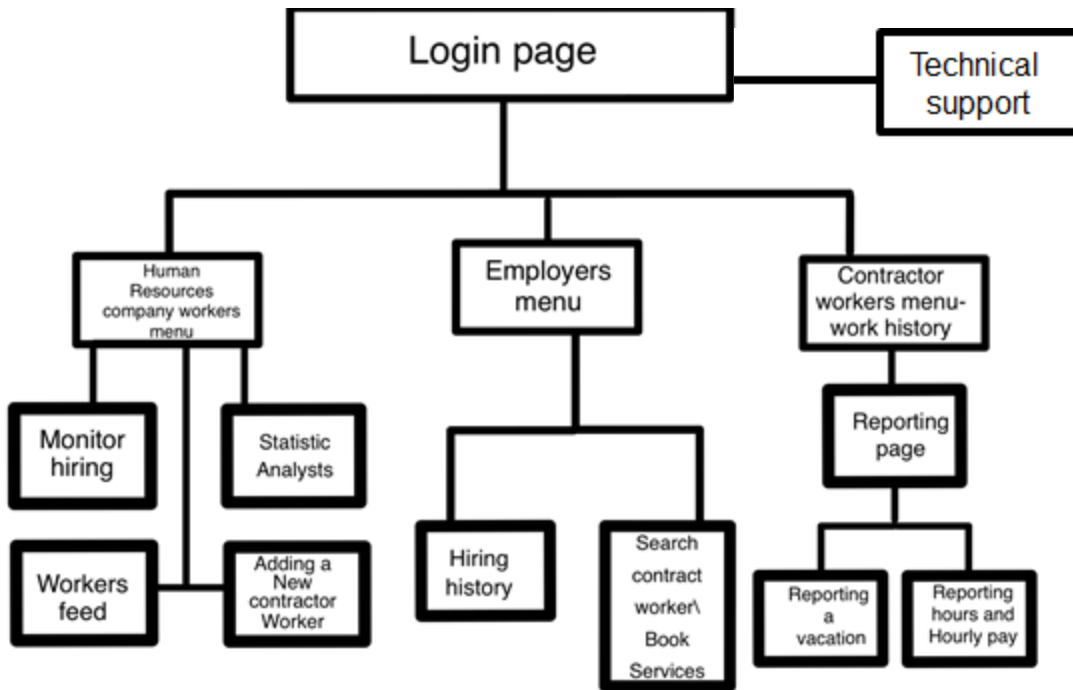
QA - Quality assurance

Ui - User interface

Ux - User experience

Who will be using the app: HR company, Employees, Contractors.

Appendix B: Analysis Models



Appendix C: To Be Determined List

- Data encryption algorithm