**Social Network - Hadar**

**High Level Design**

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Table of Contents

[Abstract 3](#_Toc467496559)

[1. Introduction 4](#_Toc467496560)

[1.1 General Project Description 4](#_Toc467496561)

[1.2 Programming Environment 4](#_Toc467496562)

[2. Theoretical Background 4](#_Toc467496563)

[2.1 Section 1 4](#_Toc467496564)

[2.1.1 Sub Section 5](#_Toc467496565)

[2.2 Section 2 5](#_Toc467496566)

[3. Basic System Functionalities 5](#_Toc467496567)

[4. Software Implementation 5](#_Toc467496568)

[4.1 Modules 5](#_Toc467496569)

[4.2 Top-Level View 5](#_Toc467496570)

[4.3 Main Menu 5](#_Toc467496571)

[4.3.1 User Interface 5](#_Toc467496572)

[4.3.2 Features 5](#_Toc467496573)

[4.3.3 User Interface 5](#_Toc467496574)

[5. References 5](#_Toc467496575)

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# General guidelines for writing HLD

HLD is an initial contract between you and your customer on what functionalities will be provided by your program. It doesn’t go into the low-level details of how each function will be implemented, it doesn’t state ALL of the views that will be created for the user but it does state the main things.

For example: say I’m going to design an application for managing a supermarket. What are the main functionalities I’m going to support?

There will be 2 usage modes: one for customer and one for an employee. Each mode will provide different functionalities.

1. Customer mode:

The customer will be able to choose from a variety of the supermarket products, searching for a desired one according to the following filters:

Type of product (food, beverage….)

Calories range

Lacking specific ingredient (for example gluten free)

The information available to client on each product will be: ingredient list, calories, manufacturer, expiration data

Note that I didn’t explain **how** the views will look like, just what functionality will be available to the client.

1. Manager mode: …
2. Registration and access control

There are, of course, a lot more features that can be added to the supermarket application that are not mentioned above. As you can see, the description is very HIGH LEVEL (==HLD) and doesn’t go into technical details.

The following template is a suggestion from what to start. Its ok if some sections are not relevant for your project and if additional sections (that are not mentioned) should be added.

**To conclude**: when writing, think about the customer. This is a contract you’re committing to. All that is mentioned here must be provided by your product.

# Abstract

Hadar is a relatively a big neighborhood, which is considered to be poor.  
There is a lot of elders living there, single mothers who need help with their kids, a lot of people who have a hard time doing the very essential stuff on the daily basis.  
Our solution to this situation is a mobile application that its job is to connect these people with other people and organizations that are willing to help them.

# Introduction

**Read and then replace the following with your introduction**

The first report explains what you are going to implement. It should hold a short description of your project, brief design review and important links.

**Be aware that any copyrighted material such as pictures, figures, code etc. is not used in your project and your documentation.**

## General Project Description

We are going to implement an application that matches the person in need with the person who is willing to help.

One can ask for help by adding a post on the feed that specifies his need. After the post is published, it’ll then be sent as a notification to the people around.

Once a person/organization is notified about a request for help, he can contact the person who asked for it.

## Programming Environment

We will implement the application using the cross-platform program Xamarin, which will make our application available for both Android and IOS users. We will be running Xamarin using Visual Studio IDE, and will use Firebase as a cloud database.  
We will write our code using C# mainly.

# Theoretical Background

Ask Eytan

## Section 1

Figure 1 – if needed

The figure above depicts the ???

### Sub Section

## 2.2 Section 2

.

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# Basic System Functionalities

We mentioned this in the general description , what is the difference?

# Software Implementation

This is the programmer manual: Up to you – like:

## Modules

## Top-Level View

What is this

## Main Menu

### User Interface

### Features

### User Interface

Why twice

# References

* Papers and links