

# **SOFTWARE REQUIREMENTS SPECIFICATION DOCUMENT**

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## **Project Title**

Simple <https://pcpartpicker.com/> clone

## **Version**

<1.0>

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# 1. Introduction

In today's world, technology is improving in an accelerated manner. Each year, we hear intriguing and complex advancements thanks to our use of computers and utilization of computers to automate tasks that require intense focus / time. Few decades ago computers were seen as scientific instruments only; but this is not a true statement for today's computers. Nowadays, from 4 years old kids to 60 years old adults, everyone uses computers for communication, work and entertainment.

Our main goal in this project is to provide a basic and easy-to-use system for people who want to build a PC with custom parts. The target audience is the people who do not know much about computers (compatibility problems) but intend to build a custom PC. We believe everyone should be able to build their own PC with custom parts that they can choose from a wide variety of components. Many people will be forced to use a computer to complete many tasks including school, work, government or even to socialize. However many of those people do not know enough about current improvements in this area to efficiently build their own PC and resort to buying what's called "pre-build" computers. Problem with this approach is there are many companies that try to oversell computers that are not worth their price tag. This is another purpose of this system: to provide a general idea about components' specifics, their market position and their worth in current trends in the market.

Our reference website 'pcpartpicker.com' is a tool that people can use to build their PC virtually. It does not sell any parts however if you approve the final build it creates an order from specified sellers for the parts that you specified. It also has guides and some builds that you can inspect. Also, you can review the pricing of the components over time and see the trend to whether to buy the part if it's cheap or not to buy otherwise. It also provides the points where you may encounter a problem.

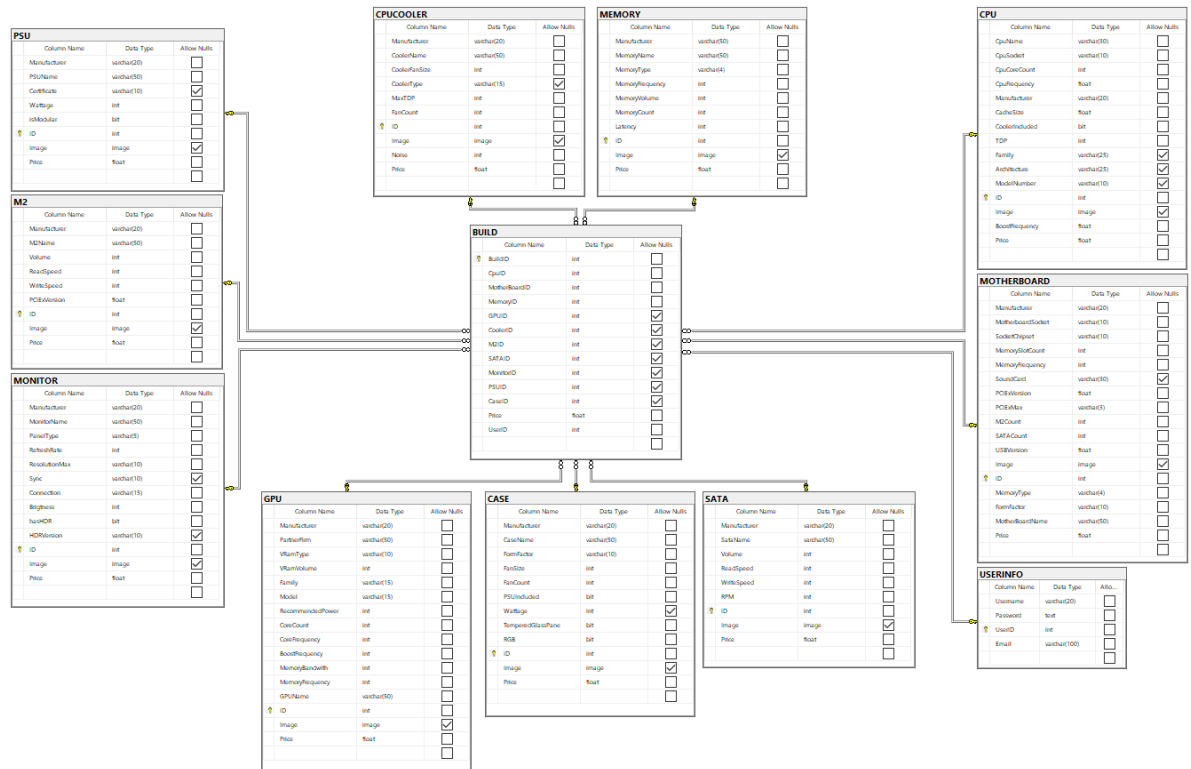
## 2. Non Functional Requirements

- The webpage should be simple and easy-to-use.
- The system should make reasonable recommendations.
- The components should be displayed in a logical manner: the parts that can be selected must be compatible.
- All user info should be stored as encrypted.
- Site should fit on PC, smartphone and tablet screens.
- The parts or components should be kept up-to-date.
- The webpage should be built modular so that it can be updated or edited easily by the manager/developer of the website.

## 3. User Stories/ Functional Requirements

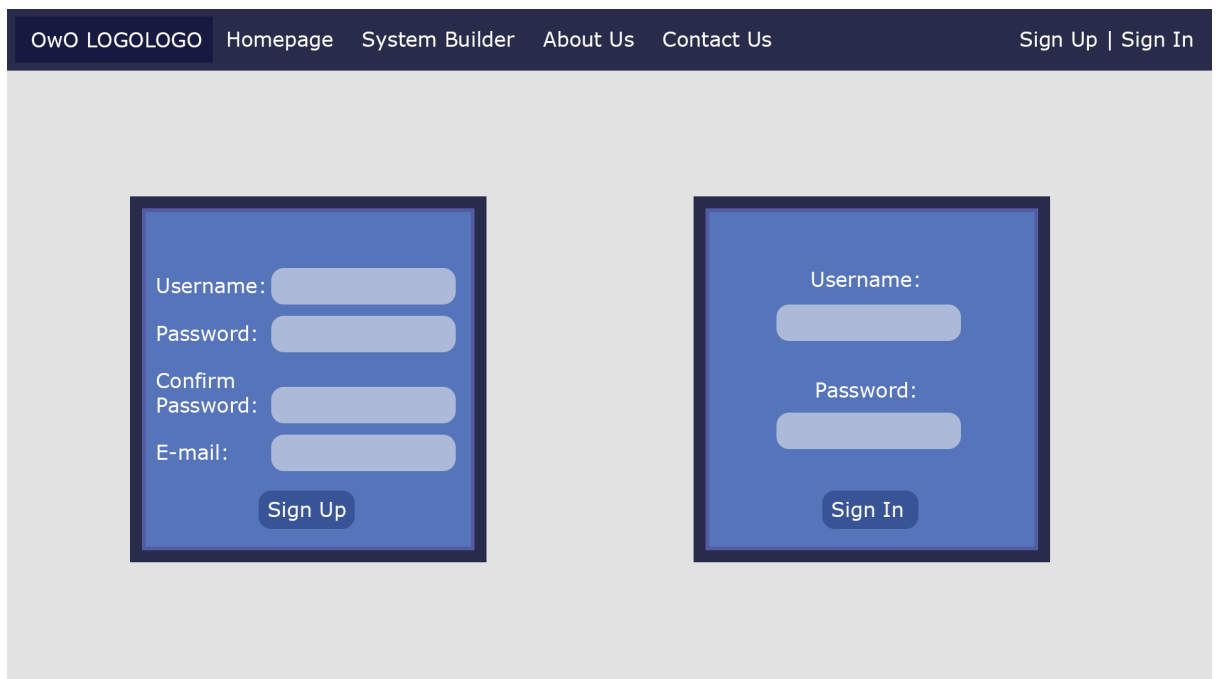
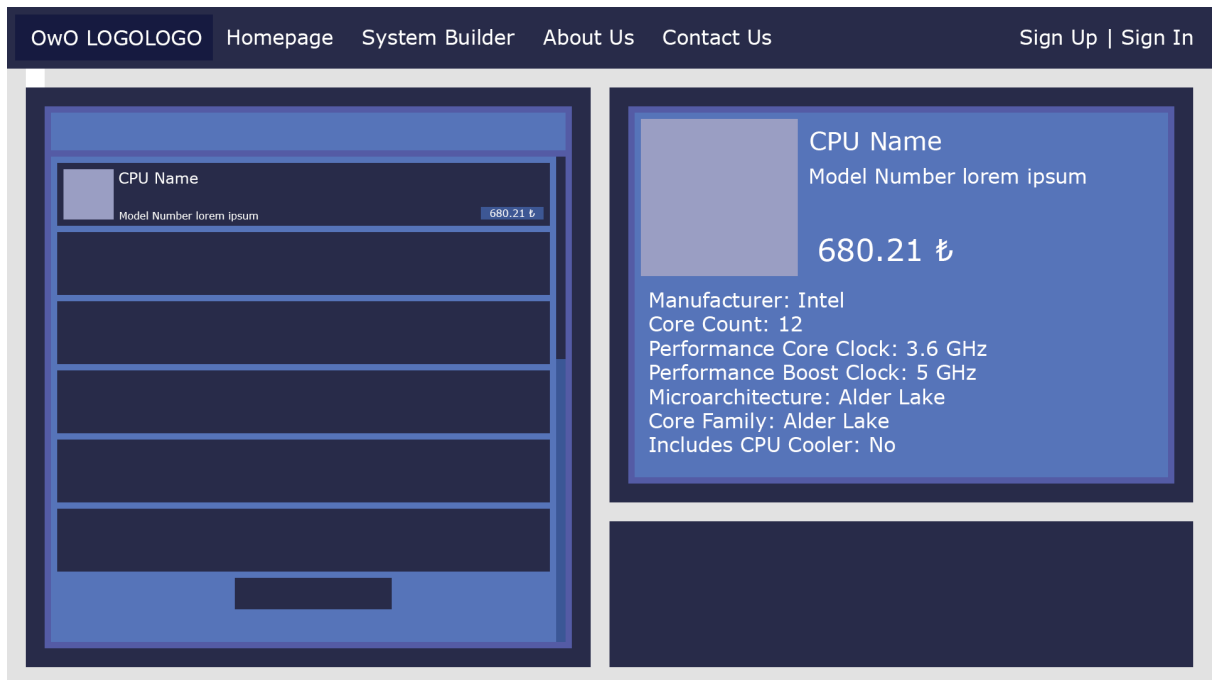
- As a potential user, I want to register.
- As a potential user, I want to create new builds, save them and delete or edit whenever I want to.
- As a potential user, I want to search any part/ build when I write in the search bar.
- (Optional) As a potential user, I want to filter search results by date.
- (Optional) As a potential developer/manager of the website, I want to have a specific page for management of the website and its background resources. (In case the website is prepared for a client or a partner.)

## 4. Database Design



This design is open to change. In the future if we have time we plan to add some features that will require modifications to this database. We tried to design the database in such a way that unnecessary data will not be generated / stored.

## 5. Mock UI Screens



## a. Workflow

