

# **Software Requirements Specification**

**for**

## **WishList.com**

**Version 1.0**

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## Revision History

Name	Date	Reason For Changes	Version
SRS	17.12.2022	First Version Created	1.0

# 1. Introduction

## 1.1 Purpose

WishList.com is a mobile application that helps people to populate a list of items that they want for their birthday, wedding, or any special day. They will be able to share this list with their friends.

## 1.2 Product Scope

WhitList.com is a mobile application that allows user or wisher to create lists of products(gifts) she/he want on her/his birthdays, wedding days or any special day and share (URL) this list with her/his friends. In this way, the wisher can share the gifts she/he want for her/his special days with her/his friends. After that, the wisher's friends will be able to buy the product they want from this list for the wisher and gift to the wisher. The wisher will be able to see who bought which product from the list and each of the wisher's friends will be able to choose only one product. The selected product cannot be re-selected by someone else. When someone selects a product from the list, the system will search for the selected product on Amazon using the "Amazon Product Search API" and show the top 5 products related to the selected product. When the someone clicks on one of these links, they will be directed to Amazon. The wisher's friends will be able to see all the features that the wisher has registered, as date of this special day, age, gender, weight, size, favorite color, hobbies, occupation, and shoe number, besides the wish list. The wisher and the wisher's friends must be registered in order to use the system. When registering to the system for the wisher, the wisher has to enter her/his name, surname, e-mail address, password, age, gender, weight, size, favorite color, hobbies, profession, shoe number and education level. However, the registration process of the wisher's friends will be different from the wisher. When the wisher's friends click on the link provided by the wisher, they do not go through a lengthy registration process like the wisher. Instead, they can register simply by entering their name, email address and password. When the wisher's friend wants to create a wish list for him or her, she/he will have to fill in all the information like the wisher. The wisher will be able to update the user information. The wisher can create more than one list. The wisher will be able to close the list after the special days are over. When creating the list, the wisher has to enter the list name, purpose and the list of things. The wisher will not be able to make any changes to the list she/he has created. Admin can be blocked the wisher. The admin can view the following reports: list of wishers, list of wish lists, most desired gifts based on age, gender, job, education level.

## 1.3 Definitions, Acronyms, and Abbreviations

Mobil Application Project for WishList.com: WishList.com

## 1.4 References

1. "IEEE Guide for Software Requirements Specifications," in *IEEE Std 830-1984*, vol., no., pp.1-26, 10 Feb. 1984, doi: 10.1109/IEEESTD.1984.119205.
2. BRUSAW, C. T., ALRED, G. and OLIU, W., *Handbook of Technical Writing*, New York, St. Martin's Press, 1976.

## 1.5 Overview

This SRS contains all requirements and constraints of WishList.com.

- Section 2 describes the general factors that affect the product and its requirements.
- Section 3 contains all the details the software developer needs to create the software.
- Section 4 defines technologies, infrastructure, performance, scalability, quality attributes, and other non-functional requirements.

## 2. General Description

### 2.1 Product Perspective

The wisher will be able to share the list containing the gifts that wisher want for her/his special days with wisher's friends. The friends of the wisher will be able to see all the features of the wisher with this list and search for the product they want for the wisher. The wisher will be able to see who bought what in the list. Both the wisher and the wisher's friends must be registered in the system.

### 2.2 Product Functions

This product will have the following functions:

1. The wisher and friends of wisher will be able to register or log in to the system.
2. The wisher can update user information.
3. The wisher will be able to create a list containing the gifts she/he want for her/his special days and share it with her/his friends.
4. The wisher will not be able to make any changes to the list she/he has created. In other words, it will not be able to delete or change any product on the list or add a new product to the list.
5. The wisher can create multiple wish lists.
6. The wisher's friends can gift one of the products they want from this list to the wisher.
7. The wisher's friends will be able to see all the features of the user, such as the date of this special day, age, gender, weight, size, favorite color, hobbies, occupation, shoe size.
8. The wisher's friends can only reserve for one product. In addition, each product can only be reserved by one person.
9. The system has recommendations based on the gift chosen by the wisher's friends.
10. The wisher be able to follow who bought what from the list.
11. The wisher can close the list after the special day is over.
12. Admin can be blocked the wisher. The admin can view the following reports: list of wishers, list of wish lists, most desired gifts based on age, gender, job, education level.

### 2.3 Users and Characteristics

Users can use the application after registering once without paying a membership fee. Any user over the age of 18 who can use a technological device can use the WishList.com.

### 2.4 General Constraints

- a) This product will be developed for a mobile application.
- b) The wisher and friends of wisher must be registered to use the product.
- c) The password that the user creates while registering in the system must be at least 8 characters. Password must contain uppercase, lowercase letters and numbers.
- d) The default two languages of the product will be "Turkish and English", but since other languages will be added in the future, the language infrastructure should be designed as extensible.
- e) The product must support the SQL server infrastructure.
- f) It is thought that 10000 people will use the product per hour and this number may increase in the future, so the product must be suitable for this.
- g) Information will be retained until users delete their account.
- h) The color theme of the product will be green and blue.
- i) The wisher can create multiple wish lists.
- j) The wisher can add up to 300 items for the wish list.

- k) The wisher cannot make any changes to the wish list after creating the list.
- l) The wisher will share her/his wish lists to her/his friends by URL.
- m) The wisher's friends can only reserve one of the products on the list.
- n) Only one person can make a reservation for each product on the list.
- o) The system will show the 5 most preferred products on Amazon according to the selected product on the wish list.
- p) The wisher will be able to follow the status of the wish list.
- q) The wisher can close the wish list after the special day is over.

## 2.5 Assumptions and Dependencies

The security of the account information of users and admins will be provided by the software developed by the Doftdare Company. It does not allow third-party security apps. Also, "Amazon Product Search API" will be used to show the best example of the selected product on the wish list.

## 3. The Specific Requirements

### 3.1 External Interface Requirements

#### 3.1.1 User Interface

##### 3.1.1.1 Sign-In and Sign-Up

The login page is a place where the users can log in to the mobile application. An email address and password are received from the users to log in to the system. If the user forgets her/his password while logging into the system, she/he can reset her password by clicking the "Forgot Password?" button. This section is only for product entry. Figure1 is the wireframe design of the page.

The registration page is where the user is registered in the system. Here, user's name, last name, email, password, age, gender, size, weight, shoes size, favorite color, job, education level, and hobbies are received; and registration is performed. Figure 2 is the wireframe design of the page.



doftdare Figure 1: Sign-In Page

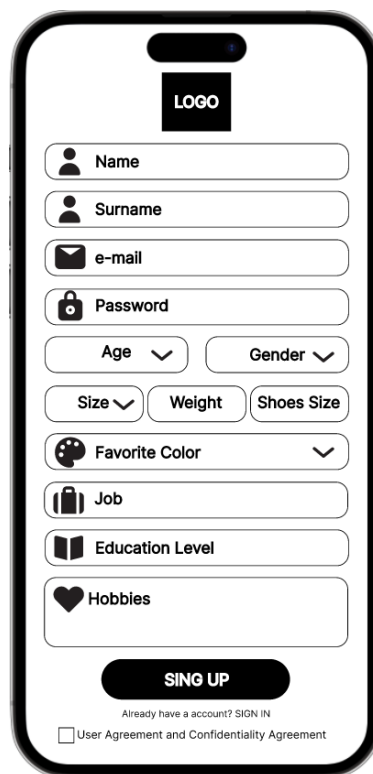


Figure 2: Sign-Up Page

### 3.1.1.2 Home Page

On this page, wisher can see created wish lists previously. When the wisher clicks on one of these lists, the properties of the list are opened below. Here, the wisher can see which of the products on the list have been reserved and by whom. When the wisher long presses on any of the wish lists, she/he can copy the URL of the wish list.

The items at the top of the page that opens show how many of the products on the list are booked, when the special day is, and how many people viewed the list, respectively.

When the wisher clicks the settings button, she/he goes to the settings tab. Here the wisher can change the settings of the application.

When the wisher clicks on the human figure, she/he can go to the page where she/he can change her/his information.

When the wisher clicks on the plus sign at the bottom of the screen, the page where he/she can create a new wish list open. Figure 3 is the wireframe design of the page.

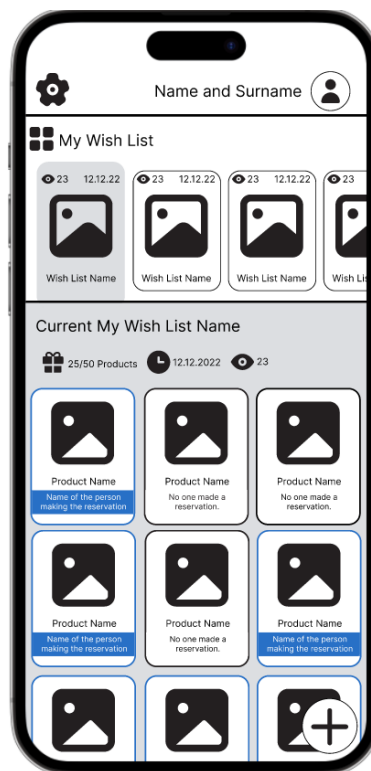


Figure 3: Home Page

### 3.1.1.3 Create New Wish List

Wisher can create a new wish list on this page. To create the wish list, the wisher enters the name of the list, the purpose of the list, and when the special day is. After entering them, the wisher starts adding products for the wisher list. The wisher enters the name of the product and the image of the product. The wisher can upload the image of the product, as well as find it from the internet. A maximum of 300 products can be entered for the wish list. The wisher can cancel the products if she/he wants. Figure 4 is the wireframe design of the page.

After all the work is done, the wisher creates a new wish list by clicking the button below. After clicking the button, if everything is ok, the system opens the page showing the URL it has created for the wisher. The wisher can copy or share this page URL. Figure 5 is the wireframe design of the page.

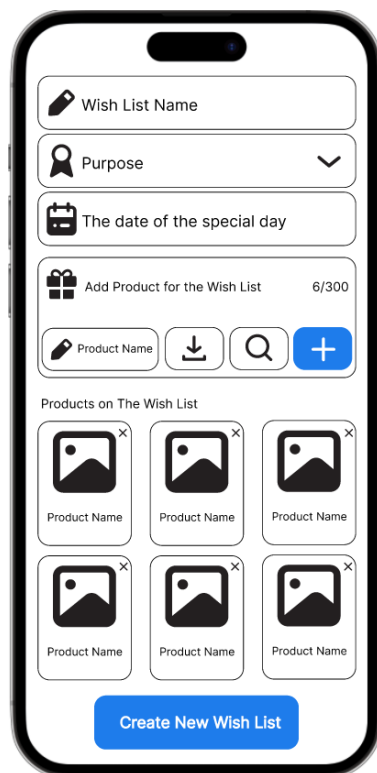


Figure 4: Create List Wish List Page

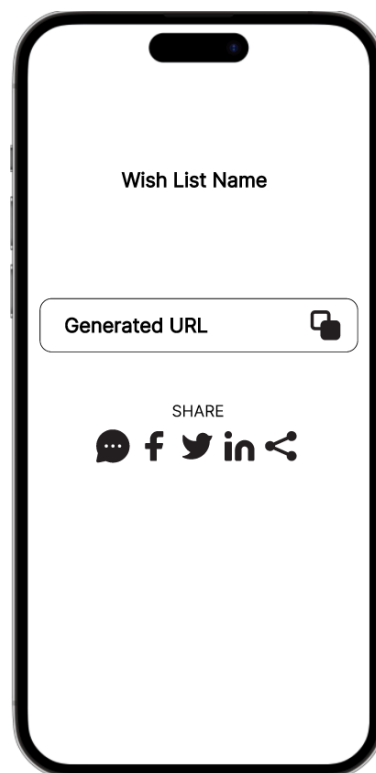


Figure 5: Generated URL Page

#### 3.1.1.4 Reserve Page

Wisher's friends can reach this page with the link provided by the wisher. At the top of this page are the name of the wisher who created this list and the name of the list. Then, the wisher's friends will learn the necessary information with the section where the wisher's features are located. The wisher's friends can gift the wisher the product from the non-reserved products on the list. When the wisher's friends click on an unreserved product in the list, the system shows the 5 most popular products. The wisher's friends can choose one of these products or another product and reserve this product. Figure 6 is the wireframe design of the page.

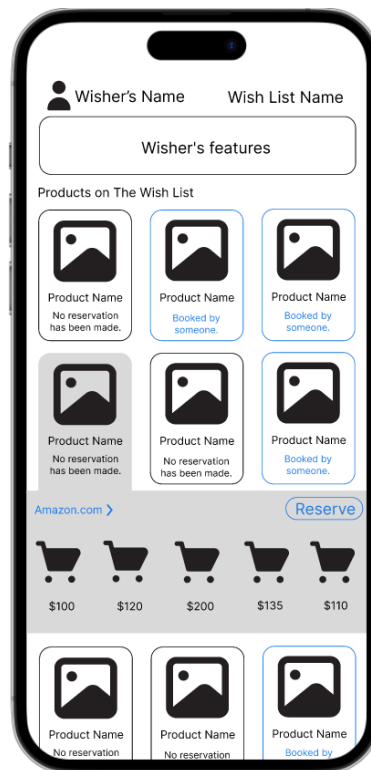


Figure 6: Reserve Page

#### 3.1.2 Hardware Interfaces

There are no interfaces.

#### 3.1.3 Software Interfaces

There are no interfaces

#### 3.1.4 Communications Interfaces

This product has account-based authorization or authentication. User does not use the product without creating an account. The only important content here is the account information of the user. These will be given priority security.



## 3.2 Functional Requirements

### 3.2.1 Create New Wish List

#### 3.2.1.1 Description and Priority

Wisher will create her/him new wish lists here. The information held here is monitored and recorded by the system. Therefore, this information must be kept safe.

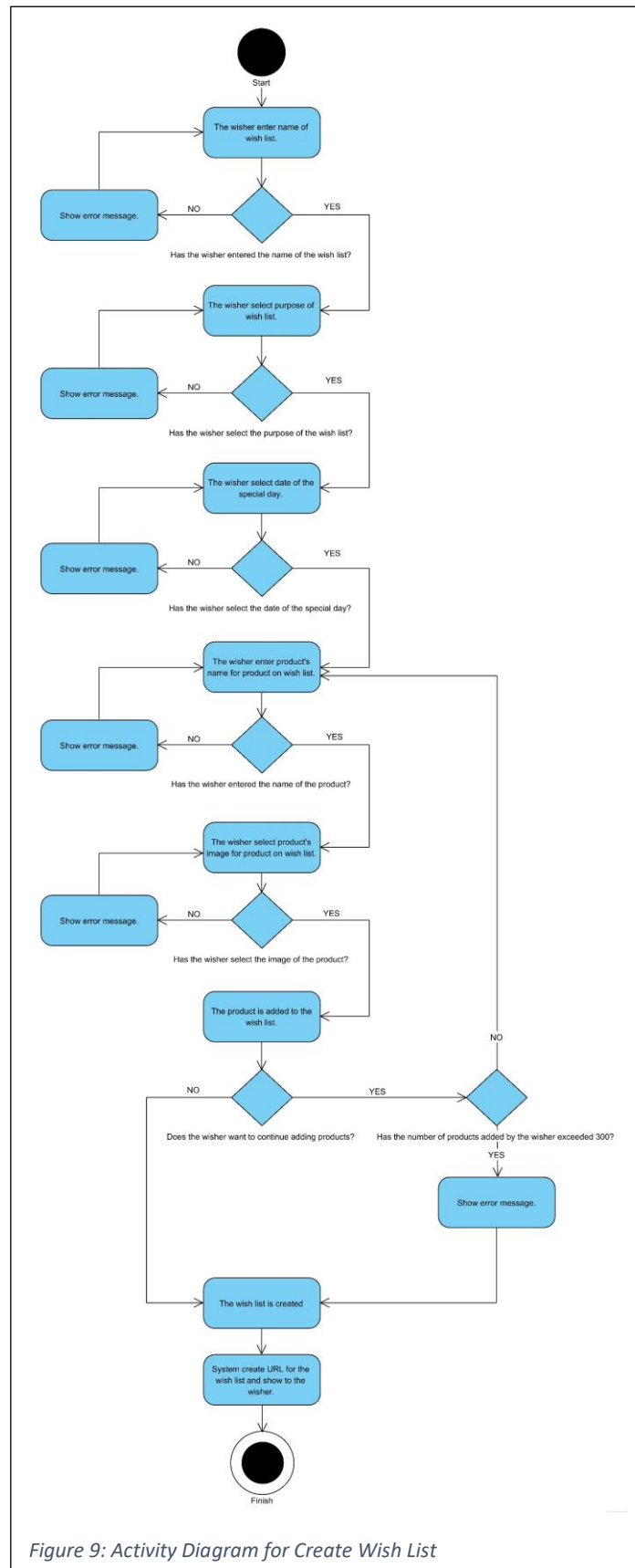


Figure 9: Activity Diagram for Create Wish List

### **3.2.1.2 Stimulus/Response Sequences**

Sequences of user actions and system responses is listed below:

1. Wisher: Enter the name of the wish list.
2. System: Warn the wisher if the wisher has not entered the name of the wish list. (Please enter the name of the wish list!)
3. Wisher: Select the purpose of the wish list.
4. System: Warn the wisher if the wisher has not selected the purpose of the wish list. (Please select the purpose of the wish list!)
5. Wisher: Enter when the special day is.
6. System: Warn the wisher if the wisher has not entered the date of the special day. (Please enter the date of the special day!)
7. Wisher: Enter the name of the product to add product to the wish list.
8. System: Warn the wisher if the wisher does not enter the name of the product. (Please enter the name of the product!)
9. Wisher: Add or select a photo for the product.
10. System: Warn the wisher if the photo has not been entered or selected. (Please upload or select the photo of the product!)
11. System: Add the product to the wish list.
12. Wisher: Want to add new items(product) for wish list.
13. System: Warn the wisher if the number of products in the wish list exceeds 300. (A maximum of 300 products can be added to the wish list!)
14. System: Create the wish list.
15. System: Generate the URL of the wish list and display it to the wisher.
16. Wisher: Share this URL with friends.

### **3.2.1.3 Functional Requirements for Create New Wish List**

Functional requirements associated with the “Create New Wish List” feature is listed below:

- REQ-1: The wisher enters the name of the wish list.
- REQ-2: The system warns the wisher if she/he has not entered the name of the wish list.
- REQ-3: The wisher selects the purpose of the wish list.
- REQ-4: The system warns the wisher if she/he has not selected the purpose of the wish list.
- REQ-5: The wisher enters when the special day is.
- REQ-6: The system warns the wisher if she/he has not entered the date of the special day.
- REQ-7: The wisher enters the name of the product.
- REQ-8: The system warns the wisher if she/he does not enter the name of the product.
- REQ-9: The wisher adds or selects a photo for the product.
- REQ-10: The system warns the wisher if the photo has not been entered or selected.
- REQ-11: The system adds the product to the wish list.
- REQ-12: The wisher may want to add new items for wish list.
- REQ-13: The system warns the wisher if the number of products in the wish list exceeds 300.
- REQ-14: The system creates the wish list, and it generates the URL of the wish list and display it to the wisher.
- REQ-15: The wisher shares this URL with friends.

#### ***4. Other Non-functional Requirements***

##### ***4.1 Performance Requirements***

- System should be able to process 10000 orders per hour.
- Maximum number of products in any wish list will be 300.
- The system can display up to 5 products from “Amazon.com”.

All the performance measurements should be set according to the maximum data size and max process frequency to make the product available under any circumstances.

##### ***4.2 Security Requirements***

This product should only work in data transfer and security products made by Doftdare Software Company. Any data transferred to or from the server should be encrypted. Decryption key should not be stored in the server.

##### ***4.3 Software Quality Attributes***

Product should have following quality attributes:

- ability to achieve the purpose with the least effort and time,
- easy to use,
- easy to remember,
- satisfying design in the first use,
- allowing the users to take back their mistakes,
- preventing mistakes
- a pleasant user experience.