

Spor Çantam	
Supporting Requirements Specification	Date: <04/04/19>

Spor Çantam

System-Wide Requirements Specification

1. Introduction

This document introduces the system-wide requirements of Spor Çantam App project. Spor Çantam is required to provide a better and efficient system for sport equipment shopping. The functionality and requirements specified for this app will be described in this document.

2. System-Wide Functional Requirements

The use-case diagram of our application can be seen below:

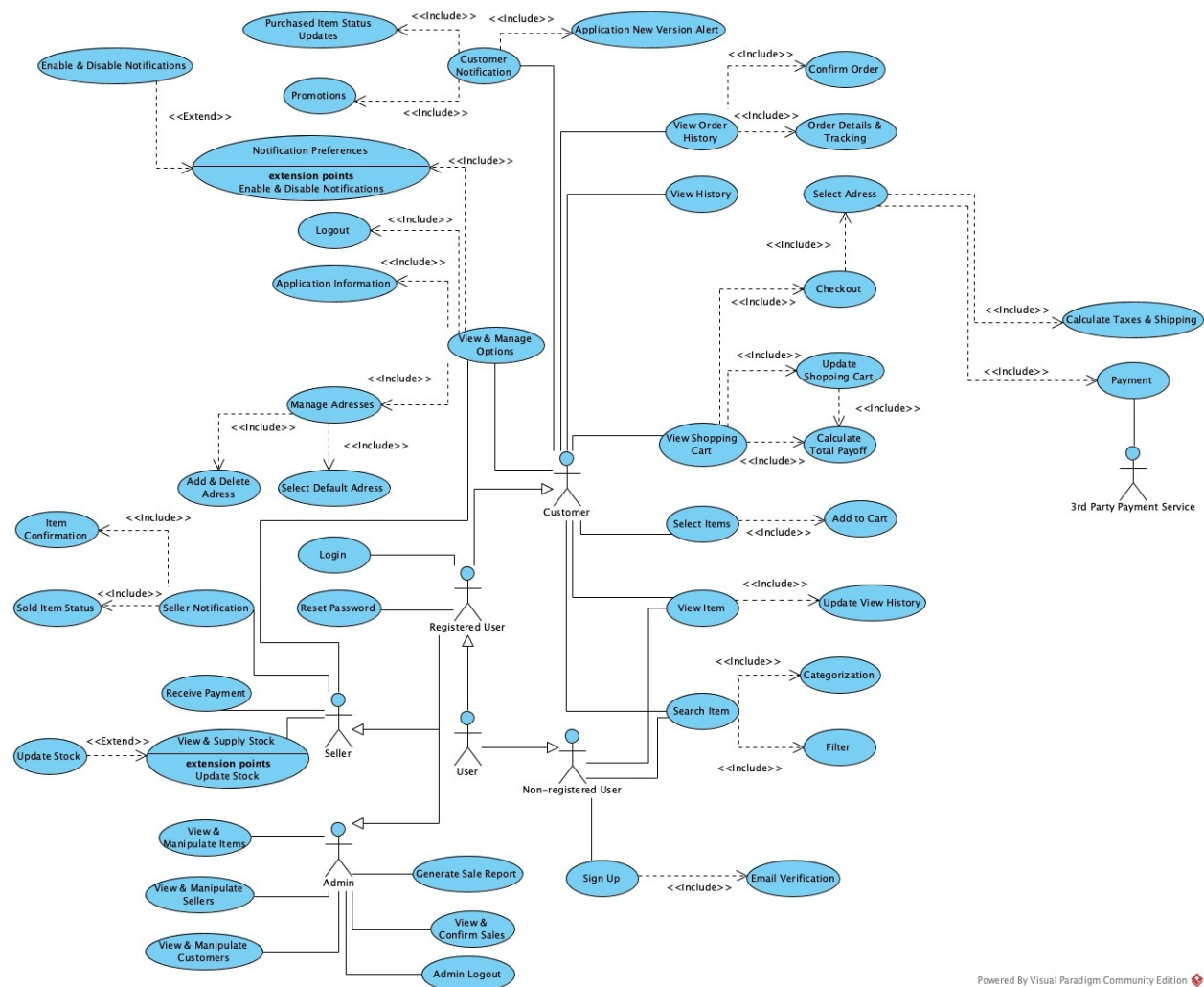


Image 1: Use-Case Diagram of Spor Çantam

Auditing: We need to track who used the system and when they used it in order to avoid issues on payment, shipping, stock count, etc.

- We need to track customer actions like add item to the cart, buy items, etc in order to maintain correct stock numbers and successful money transactions. Also we need to pay attention to customer information to ship bought items to the correct adress and receive payment from correct cards.

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- We need to track seller actions like add item, update item information in order to maintain the consistency of items and purchases.

Authentication: Access of users to the system will be controlled to a secure shopping. Only signed-up users should be able to add/purchase items. There will not be guest accounts.

Licensing: There will not be any licensing.

Printing: There will be an option for customers to print receipt after their payment received.

Reporting: The system needs to be able to generate sale reports for sellers.

Security: Security is the top priority for our system.

- We need to protect user credentials to avoid stealing of personal information.

- We need an e-mail verification for each new registered user.

- Database security is another concern. We need to store user password in hashed form, and we need to be sure that our database is inaccessible for unauthorized people.

- The payment process needs to be extra secure. The 3rd party payment service needs to be trustworthy and safe.

Scheduling: The system needs scheduling in campaigns. Seller needs to be able to define a start-end dates for events like sales, special offers, etc.

3. System Qualities

3.1 Usability

Ease of learning: A user with a basic mobil application experience needs to be learn how to use this app easily. There should be a minimal interface. The user should be able to register, discover items, search spesific item or filter items with spesific attributes easily. The seller should be able to add and manipulate items easily. The trading needs to be done in ease in both side.

Task efficiency:

- A user should be able to find desired item and compare the prices of different sellers in couple of moves.

- Filtering operation should be efficient and smart. The user should be able to find related items in a short time.

- The payment element needs to be simple to use. The 3rd party applications generally satisfies this need.

- A seller should be able to add & manipulate items easily.

Ease of remembering: A user should be able to remember how to use our app effectively after not using it for some time. In order to achieve it, we need a consistent design and system. The core features needs to be well-accepted and should not be modified too often.

Understandability: A user should be able to understand each process easily. Items should be descriptive enough, payment procedure needs to be clear, failure messages about shopping, money transactions needs to be explanative and simple.

3.2 Reliability

Accuracy: The system needs to be very accurate on calculation of:

- Cart operations: Total cost of cart, number of items in cart...

- Stock/Item operations: Current stock number of an item, actual and discounted price of item...

- Campaigns/Discounts/Special Offers: Prices and stocks of items in campaigns, the date range between start&end of campaigns...

- Payment: Receiving payment from customers, receiving commissions and taxes from sold items...

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Availability: The app should be available 7/24 for users.

Frequency and severity of failures:

- Critical defects (Should nearly never occur): Inability of use app totally or partially. For example, the application crashes in spesific event, or the users cannot see any data on screen.
- Significant (Should occur rarely): Bugs in operations. Some items cannot be selected or viewed, the user cannot modify their cart...
- Minor (Should occur rarely): Bugs which is simpler to solve and has less affect on usage. Mistakes on interface, notification problems...

3.3 Performance

- Start-up and shut-down times should not be more than 5 seconds.
- Any interface between a user and the system shall have a response time in 1-5 seconds.
- The application should be capable of dealing with different user request at the same time.

3.4 Supportability

Adaptability: There are no special requirements regarding adaptation of the software.

Compatibility: There are no requirements regarding this system and its compatibility with previous versions of this system.

Configurability: The product will be configured after it has been deployed.

Installation: User will be able to simply install our application via various application stores.

Level of Support: The product requires a Help desk for users. There must be User Guide of application and a support page for the issues users encountered. Help desk should have people who can answer questions and solve problems about usage of app, user accounts, payment issues, etc.

Maintainability: There are no special requirements regarding system maintenance.

Scalability: The system must increase its capacity to cope with the new volumes.

Testability: There are no special requirements regarding the testability of the system.

4. System Interfaces

The primitive version of app's interface is ready. It will have various screens, some of them are given as examples below.

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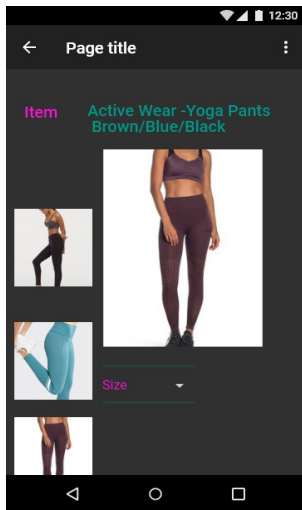


Image 2: View Item Screen

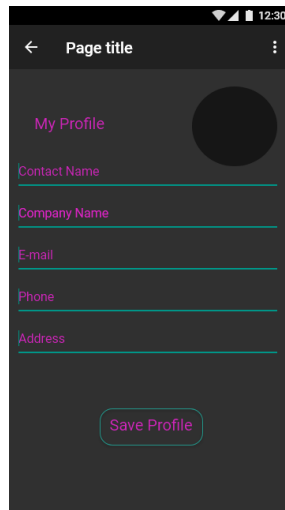


Image 3: Seller Profile Screen

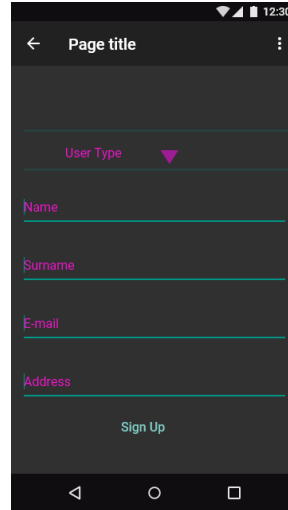


Image 4: Sign-up Screen

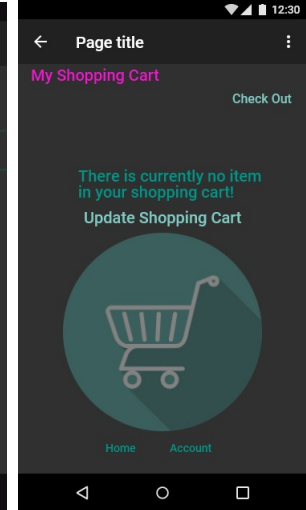


Image 5: View Cart Screen

4.1 User Interfaces

4.1.1 Look & Feel

The application interface is minimal, clean and modern. The base visual elements are lines and circles. Dominant colors are grey(background), blue(element) and purple(text). The interface of application gives a energetic and young vibes with its colors and design.

4.1.2 Layout and Navigation Requirements

We have different kind of user type so the system should show layouts according to user type. Also window navigations should be similar in order to not confuse user. To keep this rule our windows have similar look but different options.

4.1.3 Consistency

We seek to make our design and windows simple and predictable. For example when the user click something, user should predict the next step so it decreases the confusion.

4.1.4 User Personalization & Customization Requirements

There will be no such option as a customize user interface.

4.2 Interfaces to External Systems or Devices

There are no external systems with which this system must interface

4.2.1 Software Interfaces

There is no external software, so there are no interface for it.

4.2.2 Hardware Interfaces

There is no hardware interface in the system.

4.2.3 Communications Interfaces

There is no communications interface.

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5. System Constraints

Spor Çantam App will be a mobile app.

6. System Compliance

6.1 Licensing Requirements

There are no licensing enforcement requirements or other usage restriction requirements.

6.2 Legal, Copyright, and Other Notices

Spor Çantam App will be provided by Babob Company Limited, so all of the copyrights will belong to Babob Company Limited.

6.3 Applicable Standards

Spor Çantam App will follow Java coding standards.

7. System Documentation

Spor Çantam App which provided by Babob Company Limited will be simple but also we are going to prepare a documentation for customers.