

KolaySpor System-Wide Requirements Specification

1. Introduction

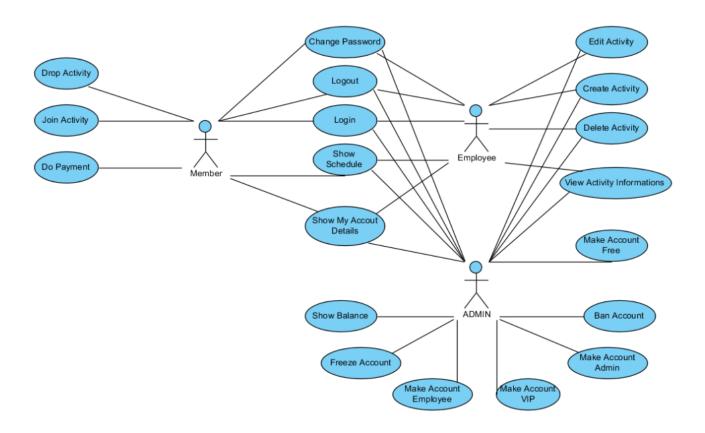
The purpose of the this document prepared for the Sports Center Membership System, defined the functional and non-functional requirements of the system; design the user interfaces, show the main functions of the product with various diagrams, determine the system constraints, according to system quality attributes defined the system qualities and document them.

With this project, we aim to make a web application that requires less workload and time for system users and administrators.

2. System-Wide Functional Requirements

The functional requirements of the system are detailed with the use case diagram, tabular descriptions and ER diagram below.

Use-case diagram:



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Use cases are given table below. Use Case tabular descriptions are in Appendix A.

Use Case	Use Case Number	Use Case Code
Ban Account	1	KS-P1L-001
Change Password	2	KS-P1L-002
Create Activity	3	KS-P1L-003
Delete Activity	4	KS-P1L-004
Do Payment	5	KS-P1L-005
Drop Activity	6	KS-P1L-006
Edit Activity	7	KS-P1L-007
Freeze Account	8	KS-P1L-008
Join Activity	9	KS-P1L-009
Login	10	KS-P1L-010
Logout	11	KS-P1L-011
Make Account Admin	12	KS-P1L-012
Make Account Employee	13	KS-P1L-013
Make Account Free	14	KS-P1L-014
Make Account VIP	15	KS-P1L-015
Show Balance	17	KS-P1L-017
Show My Account Details	18	KS-P1L-018
Show Schedule	19	KS-P1L-019
View Activity Informations	20	KS-P1L-020

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3. System Qualities

According to system quality attributes (URPS) describe system quality below.

3.1 Usability

One of our most important goals is to design whole system in a simple and understandable way. Thus, the system can be easily learned and used easy. So, to make the system easier to use, we made our interface design as simple as possible. We tried to stay away from complicated operations. For this reason, users will not have any complexity when using the system. There are some usability points given below:

- Every function that can be done on the page will be clearly visible
- Function buttons must be colored, they can be easily distinguished from each other
- The user shall be able to navigate from one window to another easily
- The user shall be able to use different type of web browsers
- The user shall be able to access system from mobile devices
- Possible system errors should be notified

3.2 Reliability

This web-based application will not have any reliability problems. All course information and user information will be stored in the database in case of any problems in case the responsible person can be accessed immediately and the problem will be removed. As a result system will be reliable.

- The system and database must be connected solid.
- The network operations of the system must be secure against external attack
- Security must be ensured for users' connections to the system.
- The system must be consistent

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3.3 Performance

We mentioned that our system can be used by all kinds of users. Besides this, we think that the amount of users may be higher. When these two conditions come together, the system must be able to operate without difficulty. The system should respond quickly to search results, update the database in case of any conditions.

- System 7/24 must be operational
- System must be able to handle under crowded periods
- System should not crash

3.4 Supportability

We tried to keep the database and system design as flexible as possible, considering the features that could be added in the future. In conclusion, we have planned a system that is easy to maintain and open to new features.

- Regular maintenance will be possible
- Processes in the system will not take long
- the system will be optimized for many different systems

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4. System Interfaces

Our system is web based Sports Center Membership System. You can see the detailed interface properties at the bottom of the interface section.

4.1 User Interfaces

GUI prototypes are given in Appendix B.

4.1.1 Look & Feel

Our interface is simple and understandable. System is designed with the convenience of users. When defining the user interface, we made sure that it is easy to use. We tried to create a GUI Prototype that is as intuitive as possible, understandable at first glance. We used the JSP library in java when creating the GUI Prototype.

4.1.2 Layout and Navigation Requirements

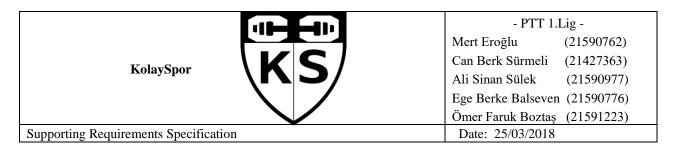
Except the Signup and HTML web page part, it is necessary to log in to use any function of the system. There is a fixed navigation bar each page in same position. So user can easily navigate between pages.

4.1.3 Consistency

In this system a user can buy, make reservations, view book penalties. These parts are very important for a system. For example, if the borrowing date of a user's book has passed, the user can see it in a short period of time and user borrower by paying less than the penalties amount.

4.1.4 User Personalization & Customization Requirements

We tried to use colors that users can feel comfortable with, we colored the colors according to their importance for example if you will ban an user the button is red so it reminds user that he is doing something important. Because the system is on the web page, all zoom operations can be done easily



4.2 Interfaces to External Systems or Devices

4.2.1 Software Interfaces

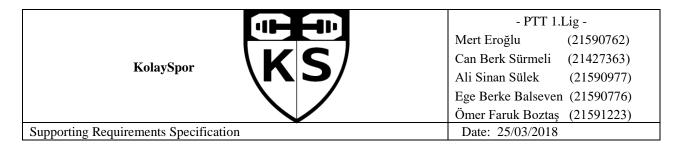
We will use a web based system for Sport Center System. In this project we will use Java language as programming language and additional we will use JDBC, JSP,HTML.

4.2.2 Hardware Interfaces

There is no hardware interface available in this system.

4.2.3 Communications Interfaces

There is no communicational interface available in this system.



5. Business Rules

5.1 Account Statue Rules

5.1.1 Banned Accounts

If an user does not comply with company rules, it can be banned by admin.

5.1.2 Frozen Accounts

If an user stay inactive more than 6 months, it can be frozen by admin.

6. System Constraints

- System needs an internet connection
- System runs on an internet browser
- Software written on JAVA.
- System developed on IntelliJ IDE

7. System Compliance

7.1 Licensing Requirements

The project does not have any licensing enforcement requirements.

7.2 Legal, Copyright, and Other Notices

The project is prepared for the Fitness Centers. Copyright of this project belongs team. Guarantee of proper operation of the project is under team responsibility.

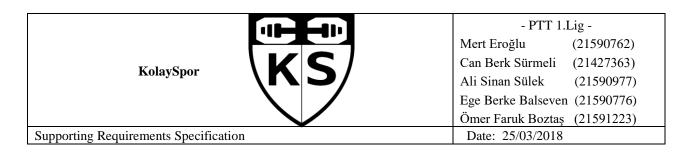
7.3 Applicable Standards

Software prepared on Turkish Language. System supports standart network protocols and modern web browsers.

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8. System Documentation

When this system is completed, a user manual will also be completed. This manual will explain the interface usage and the logic of the system in a simple and understandable way for users. The manual will be prepared by the people in charge of the project. In this way, we will try to prevent incomplete or incorrect information. It also contributes to the simplicity of the guide in the presence of different perspectives.



APPENDIX A

Tabular descriptions:

Use Case Number	1	
Use Case Code	KS-P1L-001	
Use Case	Ban Account	
Actors	Admin	
Pre – condition	Admin must be logged in	
Post – condition	An account will be banned	
Main path	1- Admin opens administration panel	
	2- Admins select account to ban	
	3- Admin bans the Account	

Use Case Number	2	
Use Case Code	KS-P1L-002	
Use Case	Change Password	
Actors	Member, Employee, Admin	
Pre – condition	User must be logged in	
Post – condition	1. User opens password change panel	
	2. User writes old password	
	3. User writes new password twice	
	4. A success message pops up	
Main path	1- User opens password change panel	
	2- User writes old password	

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3- User writes new password twice
4.1- Wrong old password
4.2- Passwords does not same
4.3- Password does not satisfy requirements
5- Error message pops up

Use Case Number	3	
Use Case Code	KS-P1L-003	
Use Case	Create Activity	
Actors	Employee, Admin	
Pre – condition	User must be logged in	
Post – condition	Activity will be created	
Main path	User opens Activity Panel	
	2. User presses "Create Activity" Button	
	3. User enters Activity informations (Date, Trainer, Period etc.)	
	4. User creates activity and a success message pops up	
Alternative path	1- User opens Activity Panel	
	2- User presses "Create Activity" Button	
	3- User enters Activity informations (Date, Trainer, Period etc.)	
	4.1- Time period already taken	
	4.2- Date invalid	
	5- An error message pops up	

Use Case Number	4
Use Case Code	KS-P1L-004
Use Case	Delete Activity

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Actors	Employee, Admin
Pre – condition	User must be logged in
Post – condition	Activity will be deleted
Main path	User opens Activity Panel
	2. User selects activity that want to delete
	3. User deletes activity a success message pops up

Use Case Number	5
Use Case Code	KS-P1L-008
Use Case	Do Payment
Actors	Customers
Pre – condition	Customer must be logged in
Post – condition	Users Do Payment
Main path	User enter username and password and presses on the login button
	2. System query to database and checks records.
	3. User is login and able to use the system features.
Alternative path	User enter invalid her/his and presses on the Login button
	2. System query to database and checks records.
	3. System gives a error message.

Use Case Number	6
Use Case Code	KS-P1L-006

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Use Case	Drop Activity
Actors	Member
Pre – condition	Member must be logged in
Post – condition	Member drops the Activity
Main path	Customer opens Activity window
	2. Selects Activity
	3. Member press Drop Activity
	4. System show a message

Use Case Number	7
Use Case Code	KS-P1L-007
Use Case	Edit Activity
Actors	Employee, Admin
Pre – condition	User must be logged in
Post – condition	User edits activity
Main path	1- User opens Activity Panel
	2- User presses "Edit Activity" Button
	3- User changes Activity informations (Date, Trainer, Period etc.)
	4- A success message pops up

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Use Case Number	8
Use Case Code	KS-P1L-008
Use Case	Freeze Account
Actors	Admin
Pre – condition	User must be logged in
Post – condition	An account will be freeze
Main path	1- Admin opens administration panel
	2- Admins select account to freeze
	3- Admin freeze the Account
Alternative path	

Use Case Number	9
Use Case Code	KS-P1L-009
Use Case	Join Activity
Actors	Customer
Pre – condition	User must be logged in
Post – condition	User joins the activity
Main path	User opens Activity window
	2. Selects Activity
	3. Joins Class
	4. System show a message

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Use Case Number	10
Use Case Code	KS-P1L-010
Use Case	Login
Actors	Customers, Employees
Pre – condition	Users not logged in
Post – condition	Users logged in
Main path	 User enter username and password and presses on the login button System query to database and checks records. User is login and able to use the system features.
Alternative path	 User enter invalid her/his and presses on the Login button System query to database and checks records. System gives a error message.

Use Case Number	11
Use Case Code	KS-P1L-011
Use Case	Logout
Actors	Customers, Employees
Pre – condition	Users not logged in
Post – condition	Users logged in
Main path	1- User presses on logout button2- User logged out and home page

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Use Case Number	12
Use Case Code	KS-P1L-012
Use Case	Make Account Admin
Actors	Admin
Pre – condition	User must be logged in
Post – condition	An account will be admin
Main path	1- Admin opens administration panel
	2- Admins select account to freeze
	3- Admin freeze the Account

Use Case Number	13
Use Case Code	KS-P1L-013
Use Case	Make Account Employee
Actors	Admin
Pre – condition	User must be logged in
Post – condition	An account will be Employee
Main path	1- Admin opens administration panel
	2- Admins select account to make Employee
	3- Admin make account to Employee

Use Case Number	14
Use Case Code	KS-P1L-014
Use Case	Make Account Free
Actors	Admin
Pre – condition	User must be logged in
Post – condition	An account will be Free

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Main path	1- Admin opens administration panel
	2- Admins select account to make Free
	3- Admin make account to Free

Use Case Number	15
Use Case Code	KS-P1L-015
Use Case	Make Account VIP
Actors	Admin
Pre – condition	User must be logged in
Post – condition	An account will be VIP
Main path	1- User opens administration panel
	2- User select account to make Free
	3- User makes account to Free

Use Case Number	17

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Use Case Code	KS-P1L-017
Use Case	Show Balance
Actors	Admin
Pre – condition	User must be logged in
Post – condition	User view all customers and payments
Main path	1- Admin opens administration panel
	2- Admin views all payments history

Use Case Number	18
Use Case Code	KS-P1L-018
Use Case	Show My Account Details
Actors	Customers
Pre – condition	Customer must be logged in
Post – condition	Customer view account details
Main path	User presses "My Account" Button
	2. System collects data from database
	3. System displays Account details in a new page

Use Case Number	19
Use Case Code	KS-P1L-019
Use Case	Show Schedule
Actors	Admin, Employee, Member
Pre – condition	User must be logged in
Post – condition	User shows schedule
Main path	1- User presses "Show Schedule" Button
	2- System collects data from database
	3- System displays Schedule

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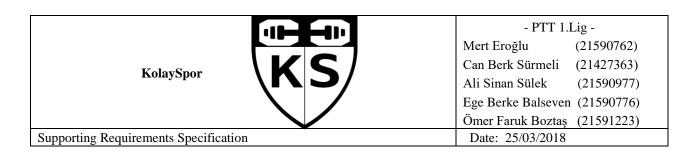
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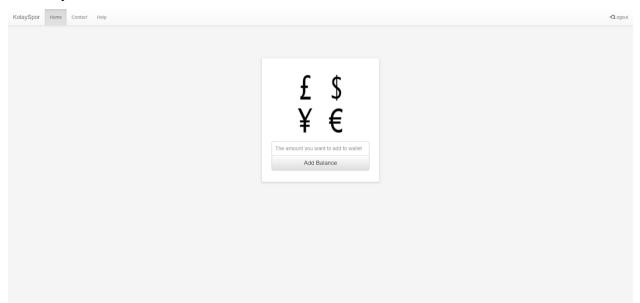
Use Case Number	20
Use Case Code	KS-P1L-020
Use Case	View Activity Informations
Actors	Admin, Member
Pre – condition	User must be logged in
Post – condition	User shows Activity Informations
Main path	User opens Activity Panel
	2. User presses "Details" Button
	3. User views Activity Informations

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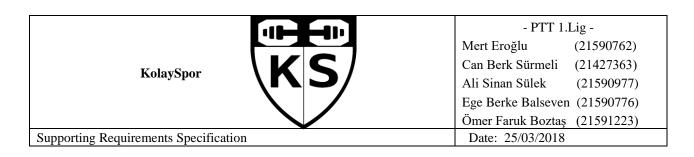
Appendix B

1-Do Payment Panel



Related Use-Cases:

• Do payment



2- Administration Panel

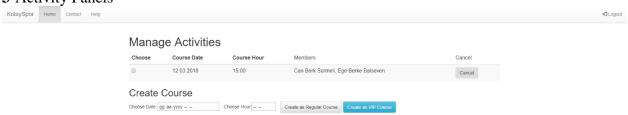


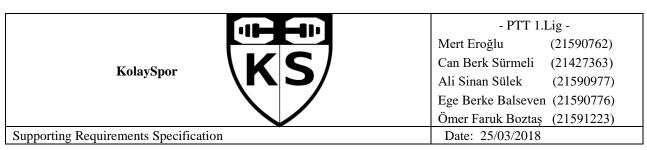
Related Use-Cases:

- Make Account Admin
- Make Account Employee
- Make Account Free
- Make Account VIP
- Ban Account
- Freeze Account

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3-Activity Panels







Related Use Cases:

- Create Activity
- Delete Activity
- Edit Activity
- Join Activity
- Drop Activity

4-Schedule panel

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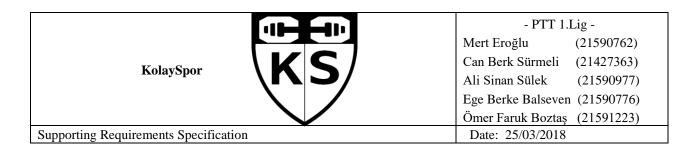
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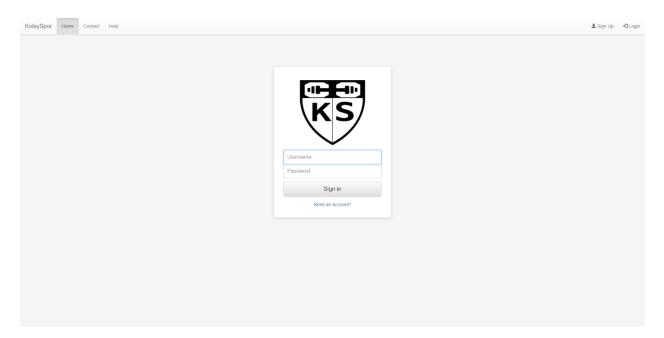
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Related Use Cases

- Show Schedule
- Join Activity
- Drop Activity

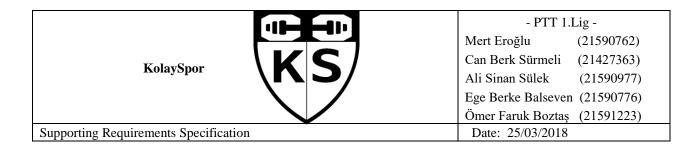


5-Login Panel



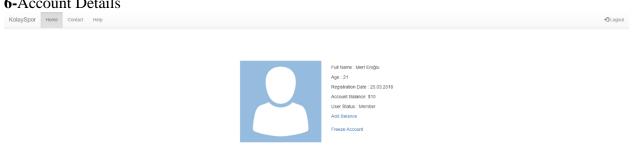
Related Use Cases

• Login



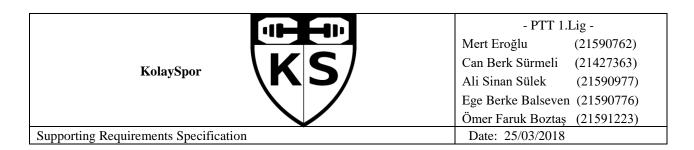
Account Detais Panel

6-Account Details



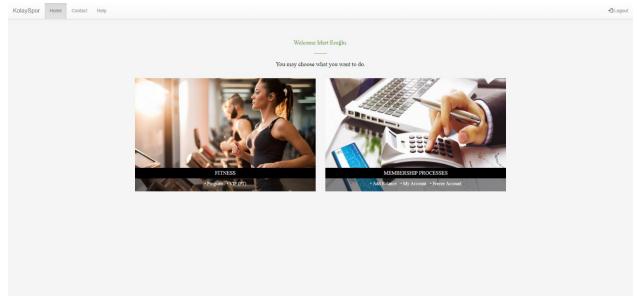
Related Use Cases

- Show My Account Details
- Add Balance



Main Menu

7-Main Menu



Related Use Cases

• Logout

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