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## System-Wide Requirements Specification - Appendix A - Tabular Description of Use Cases

Use Case Number	1
Use Case Code	SCMS-UC-001
Use Case Name	Login
Actor(s)	Member, Employee
Pre-condition	Actor is not logged in.
Post-condition	Actor is logged in.
Main path	<ol> <li>User enters his or her username and password.</li> <li>User presses on the "Login" button.</li> <li>System sends login info to DBMS and checks, if valid then show main page of application according to the user type</li> <li>User will be able to use the operations of the main window.</li> </ol>
Alternative path	<ol> <li>If the username or password are invalid, the system will show a message informing on login window.</li> <li>User will be able to enter the login info again.</li> </ol>

Use Case Number	2
Use Case Code	SCMS-UC-002
Use Case Name	Logout
Actor(s)	Member, Employee
Pre-condition	Actor is logged in.
Post-condition	Actor is logged out.

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Main path	<ol> <li>Actor clicks the logout button to send a request to end his/her session.</li> <li>The system ends user's session.</li> <li>The system shows "Login" screen.</li> </ol>
Alternative path	None .

Use Case Number	3
Use Case Code	SCMS-UC-003
Use Case Name	Register
Actor(s)	Non-member
Pre-condition	No prior membership.
Post-condition	Non-member is a member anymore.
Main path	<ol> <li>Actor clicks to "Register" button in main page.</li> <li>The System prompts user for registration information like username, password, contact info etc.</li> <li>The user enters in his/her information.</li> <li>System verifies information and creates account.</li> </ol>
Alternative path	<ol> <li>Cancel registiration.         <ul> <li>a. The user selects the cancel option.</li> <li>b. The system returns the user to the home page without the user being logged in and any information entered has been erased.</li> </ul> </li> <li>Invalid Information Entered         <ul> <li>a. User clicks submit after entering information system asked for.</li> <li>b. System displays information with appropriate message to correct invalid information.</li> <li>c.User re-enters information</li> </ul> </li> </ol>

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Use Case Number	4
Use Case Code	SCMS-UC-004
Use Case Name	List Physical Properties
Actor(s)	Member
Pre-condition	Actor is logged in and signed up a course.
Post-condition	System shows physical properties of actor.
Main path	<ol> <li>Customer clicks to "List physical properties" button in the customers main page.</li> <li>The system shows list of physical properties of the customer.</li> </ol>
Alternative path	1.Customer hasn't gone to course yet and trainer couldn't record of his/her physical properties.     a. System gives "Record couldn't be found" message to the customer.

Use Case Number	5
Use Case Code	SCMS-UC-005
Use Case Name	Sign Course
Actor(s)	Member
Pre-condition	Actor is logged in and make payment for the course.
Post-condition	Actor is signed to the course.

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Main path	<ol> <li>Actor clicks to "Courses" button.</li> <li>All courses are shown.</li> <li>Actor choose a course he/she desires.</li> <li>Actor make payment before course started.</li> <li>Actor sign course when he make payment.</li> </ol>
Alternative path	<ol> <li>Actor tries to sign courses that in the same time.         <ul> <li>a.The system will show message to inform actor.</li> <li>b.He/she has to take one of the courses.</li> </ul> </li> <li>Actor tries to sign course which is full.         <ul> <li>a.The system will show a message to inform actor.</li> <li>b.System doesn't let the actor to sign.</li> </ul> </li> </ol>

Use Case Number	6
Use Case Code	SCMS-UC-006
Use Case Name	Pay fine
Actor(s)	Member
Pre-condition	Member is logged in and currently in Main Customer Window.
Post-condition	Actor pays a fine belongs to him/her.
Main path  Alternative path	<ol> <li>Actor clicks to "View My Fines" button.</li> <li>The system queries the fine information of user.</li> <li>The system shows fines that belong to actor in a table of "View My Fines" window.</li> <li>Actor clicks to any of the records in the table.</li> <li>Actor clicks to "Pay Fine" button.</li> <li>The system connects to external payment system.</li> <li>The system shows payment window.</li> <li>Actor enters information to pay.</li> <li>The system checks information and accept payment.</li> <li>The system removes fine from actor.</li> <li>If there are no fines to pay then system disables "Pay Fine" button.</li> </ol>
Alternative path	<ol> <li>If there are no fines to pay then system disables "Pay Fine" button.</li> <li>If actor enters a wrong payment information, the system will not accept it and program waits for correct payment information from user.</li> </ol>

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Use Case Number	7
Use Case Code	SCMS-UC-007
Use Case Name	History
Actor(s)	Member
Pre-condition	Actor is logged in and currently in Payment Window.
Post-condition	Payment history is shown.
Main path	<ol> <li>Actor clicks to "Payment" button and payment window is shown.</li> <li>Actor clicks to "History" button and payment history is shown.</li> </ol>
Alternative path	No previous payment was found.  Then the system will show message to inform actor.

Use Case Number	8
Use Case Code	SCMS-UC-008
Use Case Name	Enter attendance list.
Actor(s)	Trainer
Pre-condition	Actor is logged in and in Trainer Window currently.
Post-condition	Actor enters attendance list.
Main path	<ol> <li>Trainer presses on the "Attandance" button.</li> <li>System shows the class list.</li> <li>Trainer enter the attendance list for his/her own course.</li> </ol>
Alternative path	None

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Use Case Number	9
Use Case Code	SCMS-UC-009
Use Case Name	Add/Update physical properties of members.
Actor(s)	Trainer
Pre-condition	Actor is logged in and in Trainer Window currently.
Post-condition	Physical properties of members are added.
Main path	<ol> <li>Actor presses on the "Member" button.</li> <li>The system shows all members in trainer's course.</li> <li>Trainer click on one of the members to add/update physical properties.</li> <li>Fills the table with needed properties</li> </ol>
Alternative path	None

Use Case Number	10
Use Case Code	SCMS-UC-010
Use Case Name	Define Branch
Actor(s)	System Manager

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Pre-condition	Actor is logged in and in Main System Manager Window currently.
Post-condition	A new branch defined.
Main path	3. Actor presses on the "Define Branch" button.
	4. The system shows the Define Branch Window of the application.
	5. Actor fills all of the fields.
	6. Actor clicks to "Define Branch" button.
	7. The system queries given fields.
	8. The system creates a new branch.
	9. The system shows operation successful message.
	10. The system shows the list of branches.
Alternative path	3. Form of fields
	a. If the entered fields are invalid form, the system will show a message t inform on Define Branch Window.
	b. Actor will be able to enter valid form for fields.
	4. Branch is already exists in database
	a. If the entered branch informations are already in the database, branch wi not be defined again or overwritten.
	b. Actor will be able to enter valid fields.

Use Case Number	11
Use Case Code	SCMS-UC-011
Use Case Name	Define Course
Actor(s)	System Manager
Pre-condition	Actor is logged in and in Main System Manager Window currently.
Post-condition	A new course defined.
Main path	<ol> <li>Actor presses on the "Define Course" button.</li> <li>The system shows the Define Course Window of the application.</li> <li>Actor fills all of the fields.</li> <li>Actor clicks to "Define Course" button.</li> <li>The system queries given fields.</li> <li>The system creates a new course.</li> <li>The system shows operation successful message.</li> <li>The system shows list of the defined courses.</li> </ol>

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	<ol> <li>Form of fields         <ul> <li>a. If the entered fields are invalid form, the system will show a message to inform on Define Course Window.</li> <li>b. Actor will be able to enter valid form for fields.</li> </ul> </li> </ol>
Alternative path	<ul> <li>2. Course is already exists in database</li> <li>a. If the entered course informations are already in database, course will not be defined again or overwritten. It needs at least one different feature from the others.</li> <li>b. Actor will be able to enter valid fields.</li> </ul>

Use Case Number	12
Use Case Code	SCMS-UC-012
Use Case Name	Define Payment
Actor(s)	System Manager
Pre-condition	Actor is logged in and in Main System Manager Window currently.
Post-condition	A new payment method defined.
Main path	<ol> <li>Actor presses on the "Define Payment" button.</li> <li>The system shows the Define Payment Window of the application.</li> <li>Actor fills all of the fields.</li> <li>Actor clicks to "Define Payment" button.</li> <li>The system queries given fields.</li> <li>The system creates a new payment method.</li> <li>The system shows operation successful message.</li> <li>The system shows list of the defined payment methods.</li> </ol>
Alternative path	Form of fields  a. If the entered fields are in an invalid form, the system will show a message to inform on Define Payment Window.  b. Actor will be able to enter valid form for fields.

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Use Case Number	13
Use Case Code	SCMS-UC-013
Use Case Name	Create Employee
Actor(s)	System Manager
Pre-condition	Actor is logged in and in Main System Manager Window currently.
Post-condition	A new branch manager appointed.
Main path	<ol> <li>Actor presses on the "Employee Operations" button.</li> <li>The system shows the Employee Operations Window of the application with "Create" and "Get" button by default.</li> <li>Actor fills every field.</li> <li>Actor clicks to "Create Employee" button.</li> <li>The system queries given fields.</li> <li>The system creates a new branch manager.</li> <li>The system shows operation successful message.</li> </ol>
Alternative path	<ol> <li>Form of fields         <ul> <li>b. If actor enters fields in an invalid form, the system will show a message to inform on Employee Operations Window.</li> <li>c. Actor will be able to enter valid forms for fields.</li> </ul> </li> <li>Person already exists in database         <ul> <li>a. If the entered person is already in the database, branch manager will not be created again or overwritten. A branch manager can work for only one branch.</li> <li>b. Actor will be able to enter valid fields.</li> </ul> </li> </ol>

Use Case Number	14
Use Case Code	SCMS-UC-014
Use Case Name	Read Employee
Actor(s)	System Manager
Pre-condition	Actor is logged in and in Main System Manager Window currently.
Post-condition	The list of all branch managers showed.

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Main path	<ol> <li>Actor presses on the "Employee Operations" button.</li> <li>The system shows the Employee Operations Window of the application.</li> <li>Actor presses on the "Read" tab button.</li> <li>The system shows the list of branch managers with their information.</li> </ol>
Alternative path	None

Use Case Number	15
Use Case Code	SCMS-UC-015
Use Case Name	Update Employee
Actor(s)	System Manager
Pre-condition	Actor is logged in and in Main System Manager Window currently.
Post-condition	Informations of specified branch manager are updated.
Main path	<ol> <li>Actor presses on the "Employee Operations" button.</li> <li>The system shows the Employee Operations Window of the application.</li> <li>Actor presses on the "Get User" button.</li> <li>Actor presses on the "Update" button.</li> <li>The system allows actor to change fields.</li> <li>Actor changes fields he/she wants.</li> <li>Actor presses on the "Update Employee" button.</li> <li>The system updates user.</li> <li>The system shows operation successful message.</li> </ol>
Alternative path	<ol> <li>Form of fields         <ul> <li>a. If the entered fields are invalid, the system will show a message to inform on Employee Operations Window.</li> <li>b. Actor will be able to enter valid forms for fields.</li> </ul> </li> </ol>

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Use Case Number	16
Use Case Code	SCMS-UC-016
Use Case Name	Delete Employee
Actor(s)	System Manager
Pre-condition	Actor is logged in and in Main System Manager Window currently.
Post-condition	The specified branch manager deleted from the database.
Main path	<ol> <li>Actor presses on the "Employee Operations" button.</li> <li>The system shows the Employee Operations Window of the application.</li> <li>Actor presses on the "Get User" button.</li> <li>Actor presses on the "Delete Employee" button.</li> <li>System gives a warning message.</li> <li>The system deletes the user.</li> <li>The system shows operation successful message.</li> </ol>
Alternative path	<ol> <li>Form of fields         <ul> <li>a. If the entered fields are invalid, the system will show a message to inform on Employee Operations Window.</li> <li>b. Actor will be able to enter valid forms for fields.</li> </ul> </li> </ol>

Use Case Number	17
Use Case Code	SCMS-UC-017
Use Case Name	Create Customer
Actor(s)	Branch Manager
Pre-condition	Actor is logged in and currently in Main Branch Manager Window.
Post-condition	A new customer registered to the system.
Main path	11. Actor presses on "Customer Operations" button.
	12. The system shows the Customer Operations Window of the application
	with "Create" and "Get" button by default.
	13. Actor fills every field.
	14. Actor clicks on "Create Customer" button.
	15. The system queries given fields.
	16. The system creates a new customer.
	17. The system shows operation successful message.
Alternative path	1. Form of fields
	a. If actor enters fields in an invalid form, the system will show a message to
	inform on Customer Operations Window.
	b. Actor will be able to enter valid forms for fields.

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2. P	erson already exists in database
a	. If the entered person is already in the database, customer will not be created
	or overwritten.
b	. Actor will be able to enter valid fields.

Use Case Number	18
Use Case Code	SCMS-UC-018
Use Case Name	Read Customer
Actor(s)	Branch Manager
Pre-condition	Actor is logged in and in Main Branch Manager Window currently.
Post-condition	The list of all customers in specified branch showed.
Main path	<ol> <li>Actor presses on the "Customer Operations" button.</li> <li>The system shows the Customer Operations Window of the application.</li> <li>Actor presses on the "Get Customer" tab button.</li> <li>The system shows the list of customers with their information.</li> </ol>
Alternative path	None

Use Case Number	19	
Use Case Code	SCMS-UC-019	
Use Case Name	Update Customer	
Actor(s)	Branch Manager	
Pre-condition	Actor is logged in and in Main Branch Manager Window currently.	
Post-condition	Informations of specified customer are updated.	
Main path	1. Actor presses on the "Customer Operations" button.	
	2. The system shows the Customer Operations Window of the application.	
	3. Actor presses on the "Get Customer" button.	
	4. Actor presses on the "Update" tab button.	
	5. The system allows actor to change fields.	
	6. Actor changes fields he/she wants.	
	7. Actor presses on the "Update Customer" button.	
	8. The system updates user.	
	9. The system shows operation successful message.	

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Alternative path	1.	Form of fields
		<ul><li>a. If the entered fields are invalid, the system will show a message to inform on Customer Operations Window.</li><li>b. Actor will be able to enter valid forms for fields.</li></ul>

Use Case Number	20	
Use Case Code	SCMS-UC-020	
Use Case Name	Delete Customer	
Actor(s)	Branch Manager	
Pre-condition	Actor is logged in and in Main Branch Manager Window currently.	
Post-condition	The specified customer deleted from the database.	
Main path	<ol> <li>Actor presses on the "Customer Operations" button.</li> <li>The system shows the Customer Operations Window of the application.</li> <li>Actor presses on the "Get User" button.</li> <li>Actor presses on the "Delete Customer" button.</li> <li>System gives a warning message.</li> <li>The system deletes the user.</li> <li>The system shows operation successful message.</li> </ol>	
Alternative path	<ol> <li>Form of fields         <ul> <li>a. If the entered fields are invalid, the system will show a message to inform on Customer Operations Window.</li> <li>b. Actor will be able to enter valid forms for fields.</li> </ul> </li> </ol>	

Use Case Number	21		
Use Case Code	SCMS-UC-021		
Use Case Name	Open Course		
Actor(s)	Branch Manager		
Pre-condition	Actor is logged in and currently in Main Branch Manager Window.		
Post-condition	A course activated in specified branch.		
Main path	Actor presses on "Course Operations" button.		
	2. The system shows the Course Operations Window of the application with		

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		"Create New Course" button.
	_	
	3.	Actor selects one of the courses which is defined by system manager.
	4.	Actor fills every field.
	5.	Actor clicks on "Open Course" button.
	6.	The system activates that course for that branch.
	7.	The system shows operation successful message.
Alternative path	1.	Form of fields
		a. If actor enters fields in an invalid form, the system will show a message to inform on Course Operations Window.
		b. Actor will be able to enter valid forms for fields.
	2.	Trainer not exists
		a. If the entered trainer person is not in the database, course will not be opened.
		b. Actor will be able to enter valid fields.
	3.	Course not exists
		a. If the entered course is not defined by system manager, course will not be opened.
		b. Actor will be able to enter valid fields.

Use Case Number	22		
Use Case Code	SCMS-UC-022		
Use Case Name	Create Trainer		
Actor(s)	Branch Manager		
Pre-condition	Actor is logged in and currently in Main Branch Manager Window.		
Post-condition	A new trainer registered to the system.		
Main path	Actor presses on "Trainer Operations" button.		
	2. The system shows the Trainer Operations Window of the application and		
	"Create" and "Get Trainer" button by default.		
	3. Actor fills every field.		
	4. Actor clicks on "Create Trainer" button.		
	5. The system queries given fields.		
	6. The system creates a new trainer.		
	7. The system shows operation successful message.		
Alternative path	1. Form of fields		
	a. If actor enters fields in an invalid form, the system will show a message to		
	inform on Trainer Operations Window.		
	b. Actor will be able to enter valid forms for fields.		
	2. Person already exists in database		
	a. If the entered person is already in the database, trainer will not be created or		
	overwritten.		
	b. Actor will be able to enter valid fields.		

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Use Case Number	23	
Use Case Code	SCMS-UC-023	
Use Case Name	Read Trainer	
Actor(s)	Branch Manager	
Pre-condition	Actor is logged in and in Main Branch Manager Window currently.	
Post-condition	The list of all trainers in specified branch showed.	
Main path	<ol> <li>Actor presses on the "Trainer Operations" button.</li> <li>The system shows the Trainer Operations Window of the application.</li> <li>Actor presses on the "Get Trainer" tab button.</li> <li>The system shows the list of trainers with their information.</li> </ol>	
Alternative path	None	

Use Case Number	24	
Use Case Code	SCMS-UC-024	
Use Case Name	Update Trainer	
Actor(s)	Branch Manager	
Pre-condition	Actor is logged in and in Main Branch Manager Window currently.	
Post-condition	Informations of specified trainer are updated.	
Main path	<ol> <li>Actor presses on the "Trainer Operations" button.</li> <li>The system shows the Trainer Operations Window of the application.</li> <li>Actor presses on the "Get User" button.</li> <li>The system allows actor to change fields.</li> <li>Actor changes fields he/she wants.</li> <li>Actor presses on the "Update Trainer" button.</li> <li>The system updates user.</li> <li>The system shows operation successful message.</li> </ol>	
Alternative path	<ol> <li>Form of fields         <ul> <li>a. If the entered fields are invalid, the system will show a message to inform on Trainer Operations Window.</li> <li>b. Actor will be able to enter valid forms for fields.</li> </ul> </li> </ol>	

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Use Case Number	25		
Use Case Code	SCMS-UC-025		
Use Case Name	Delete Trainer		
Actor(s)	Branch Manager		
Pre-condition	Actor is logged in and in Main Branch Manager Window currently.		
Post-condition	The specified trainer deleted from the database.		
Main path	<ol> <li>Actor presses on the "Trainer Operations" button.</li> <li>The system shows the Trainer Operations Window of the application.</li> <li>Actor presses on the "Get User" button.</li> <li>Actor presses on the "Delete Trainer" button.</li> <li>System gives a warning.</li> <li>The system deletes the user.</li> <li>The system shows operation successful message.</li> </ol>		
Alternative path	<ol> <li>Form of fields         <ul> <li>a. If the entered fields are invalid, the system will show a message to inform on Trainer Operations Window.</li> <li>b. Actor will be able to enter valid forms for fields.</li> </ul> </li> </ol>		

Use Case Number	26		
Use Case Code	SCMS-UC-026		
Use Case Name	Close Course		
Actor(s)	Branch Manager		
Pre-condition	Actor is logged in and currently in Main Branch Manager Window.		
Post-condition	A course closed in specified branch.		
Main path	Actor presses on "Course Operations" button.		
	2. The system shows the Course Operations Window of the application.		
	3. Actor presses on the "Get Course" button.		
	4. Actor presses on the "Close Course" button.		
	5. The system gives a warning message.		
	6. The system makes inactive that course from that branches program.		
	7. The system shows operation successful message.		
Alternative path	1. Form of fields		
	a. If actor enters fields in an invalid form, the system will show a message to		

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	inform on Course Operations Window.
b.	Actor will be able to enter valid forms for fields.

Use Case Number	27		
Use Case Code	SCMS-UC-027		
Use Case Name	Activate Member		
Actor(s)	Branch Manager		
Pre-condition	Actor is logged in and currently in Main Branch Manager Window.		
Post-condition	Activates a members registeration to a course again.		
Main path	Actor presses on "Course Operations" button.		
	2. The system shows the Course Operations Window of the application.		
	3. Actor presses on the "Get Course" button.		
	4. Actor presses on the desired course.		
	5. The system shows the Desired Courses Window of the application.		
	6. Actor presses on the "Add New User" button.		
	7. Actor fills every field.		
	8. The system checks the informations that actor entered.		
	9. Actor presses on the "Activate Member" button.		
	10. The system adds that user to that course.		
	11. The system shows operation successful message.		
Alternative path	1. Form of fields		
	a. If actor enters fields in an invalid form, the system will show a message to		
	inform on Course Operations Window.		
	b. Actor will be able to enter valid forms for fields.		
	2. Course quota		
	a. If desired course quota is full, the system will Show a message to inform		
	on Course Operaitons Window.		