Booking Management System for Rock Climbing

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Version: <u>1.0</u>

USE CASE NAME:	Create an account	**USE CASE TYPE**	
USE CASE ID:	001	Business Requirements:☑	
PRIORITY:	High		
PRIMARY BUSINESS ACTOR:	User		
OTHER PARTICIPATING ACTORS:	System		
OTHER INTERESTED STAKEHOLDERS:			
SHORT DESCRIPTION:	A new user should be able to create a new account.		
PRE-CONDITION:	None		
TRIGGER:	User clicks creates an account button.		
TYPICAL COURSE OF EVENTS:	ACTOR ACTION	SYSTEM RESPONSE	
	Step1: Initiates account creation	Step 2: Displays a form with all required input like name, address, email, phone number and so on.	
	Step3: User inputs required information	Step4: System does real time error checking on input as user enters data	
	Step5: User clicks submit button	Step6: System checks if the user with the same email is already registered	
		Step7: If user found, displays an error. If not, creates a unique verification code, sends verification code to the user by email/phone number and presents the form to user to enter the verification code.	
	Step8: User enters verification code	Step 9: Verifies verification code. If error, asks user to input again. If success, stores data in database and outputs success message	
ALTERNATIVE COURSES:	If error during Step 4, Steps 2 to 4 are repeated until user selects otherwise.		
	If error duing Step 9, Steps 7 to 9 are repeated until user selects otherwise.		

CONCLUSION:	After successful verification, a new user is added to the system.
POST-CONDITION:	User has successfully created an account and logged into the system.
BUSINESS RULES:	
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:	
ASSUMPTIONS:	User does not have an account and wants to create one.
OPEN ISSUES:	

USE CASE NAME:	Login to the system		**USE CASE TYPE**	
USE CASE ID:	002		Business Requirements:☑	
PRIORITY:	High			
PRIMARY BUSINESS ACTOR:	User			
OTHER PARTICIPATING ACTORS:	System			
OTHER INTERESTED STAKEHOLDERS:				
SHORT DESCRIPTION:	An user should be able to login to the system with correct credentials.			
PRE-CONDITION:	None			
TRIGGER:	User clicks on login button.			
TYPICAL COURSE OF EVENTS:	ACTOR ACTION		SYSTEM RESPONSE	
	Step 1: User Initiates Login action		Step 2: System presents user with a login form	
	Step3: User inputs required information		Step 4: System does real time error checking on input as user enters data	
	Step5: User clicks login button		Step 6: System validates login credentials against the database. If successful, logs the user to the system. If error, displays error message.	
ALTERNATIVE COURSES:	If errors in Step 6, Steps 3 to 6 are repeated until the user decides to not to do so.			

CONCLUSION:	After successful login verification, user is logged into the system.	
POST-CONDITION:	User is logged into the system.	
BUSINESS RULES:		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:		
ASSUMPTIONS:	User has created an account.	
OPEN ISSUES:		

USE CASE NAME:	Make a booking	**USE CASE TYPE**
USE CASE ID:	003	Business Requirements:☑
PRIORITY:	High	
PRIMARY BUSINESS ACTOR:	User	
OTHER PARTICIPATING ACTORS:	System	
OTHER INTERESTED STAKEHOLDERS:		
SHORT DESCRIPTION:	A user should be able to make a booking for a particular court in a particular day	
PRE-CONDITION:	User is logged into the system	
TRIGGER:	User clicks book a court button	
TYPICAL COURSE OF EVENTS:	ACTOR ACTION	SYSTEM RESPONSE
	Step 1: User initiates booking action	Step 2: System presents user with a form to select date and time, court, and additional equipment if they need. Users are also able to select coaches, granted they are available in the user time selected.
	Step3: User inputs required information	Step4: System does real time error checking on input as user enters data
	Step5: User clicks login button	Step6: System checks if the court is available or not in the selected timing. If not, user is asked whether to stay in waitlist or not and to pick a different timing if not.

	Step 7: User chooses to be in waitlist or not, and picks another time.	Step 8: After successful verification, system checks if user has membership. If membership is active, success message is shown and notification is sent. If not, user is forwarded to make a payment.
	Step 9: User makes payment	Step 10: If payment success, sends a notification to the user, and to the coach if the coach was booked. Otherwise, displays error message.
ALTERNATIVE COURSES:	If error during Step 8, Steps 6 to 8 are repeated until the user decides not to.	
	If Step 9 fails, repeat the Step 9 until user cancels	
CONCLUSION:	After successful attempt, user is able to book a court for a particular date and time.	
POST-CONDITION:	A new booking has been created and recorded.	
BUSINESS RULES:		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:		
ASSUMPTIONS:	User has an account and is logged into the system.	
OPEN ISSUES:		

USE CASE NAME:	Sign up for membership	USE CASE TYPE
USE CASE ID:	004	Business Requirements:☑
PRIORITY:	High	
PRIMARY BUSINESS ACTOR:	User	
OTHER PARTICIPATING ACTORS:	System	
OTHER INTERESTED STAKEHOLDERS:		
SHORT DESCRIPTION:	User should be able to sign up for a membership of their choice.	
PRE-CONDITION:	User is logged into the system.	
TRIGGER:	User clicks sign up for membership button.	
TYPICAL COURSE OF EVENTS:	ACTOR ACTION	SYSTEM RESPONSE

	Step 1: User initiates membership signup action	Step 2: System presents user with membership option and the benefits for the user to sign up for.
	Step 3: User selects a membership type	Step 4: System records the selection and user is forwarded to payment.
	Step 5: User makes payment	Step 6: If payment success, sends a notification to the user, and membership is activated. Otherwise, displays error message.
ALTERNATIVE COURSES:	If error during Step 8, Steps 6 to 8 are repeated until the user decides not to.	
CONCLUSION:	User successfully signs up for one of the membership plans and makes payment.	
POST-CONDITION:	Activate the membership for the user and record relevant information.	
BUSINESS RULES:		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:		
ASSUMPTIONS:	User has a non-membership account and is logged into the system.	
OPEN ISSUES:		

USE CASE NAME:	(Admin) View the revenue	**USE CASE TYPE**
USE CASE ID:	005	Business Requirements:☑
PRIORITY:	Medium	
PRIMARY BUSINESS ACTOR:	Admin	
OTHER PARTICIPATING ACTORS:	System	
OTHER INTERESTED STAKEHOLDERS:		
SHORT DESCRIPTION:	Admin get access to the database for viewing the revenue data.	
PRE-CONDITION:	Admin is logged into the system as admin.	
TRIGGER:	Admin clicks view revenue button.	
TYPICAL COURSE OF EVENTS:	ACTOR ACTION	SYSTEM RESPONSE
	Step 1: Admin Initiates view revenue action	Step 2: System makes connection to database and asks admin to

	choose a specific scope	
	Step 3: Admin chooses objects, starting date and ending date	Step 4: System presents the concerning data from database to admin
ALTERNATIVE COURSES:		
CONCLUSION:	Admin account has access to the database and is able to search revenue information by inputting a specific scope.	
POST-CONDITION:	None	
BUSINESS RULES:		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:		
ASSUMPTIONS:	The database is open for and only for the admin account and the data is being recorded and updated instantly.	
OPEN ISSUES:	Is it needed to give warning to admin when a new IP is being used for admin operations?	

USE CASE NAME:	(Coach) Add a timing	**USE CASE TYPE**
USE CASE ID:	006	Business Requirements:☑
PRIORITY:	High	
PRIMARY BUSINESS ACTOR:	Coach	
OTHER PARTICIPATING ACTORS:	System	
OTHER INTERESTED STAKEHOLDERS:		
SHORT DESCRIPTION:	Coach adds timings when he will be available to give courses.	
PRE-CONDITION:	Coach is logged into the system as coach.	
TRIGGER:	Coach clicks add available timing button.	
TYPICAL COURSE OF EVENTS:	ACTOR ACTION	SYSTEM RESPONSE
	Step 1: Coach Initiates add timg action	Step 2: System asks coach to choose a specific time slot when he will be able to give a course.
	Step 3: Coach selects the time slot and clicks	Step 4: System check if the coach

	confirm button	has selected the time slot before. If not, records the information, displays success message and then asks if coach needs to add another timing or not.
ALTERNATIVE COURSES:	If error in Step 4, displays error message and moves on to ask if coach needs to add another timing or not.	
	If coach choose to add another timing after Step 4, Steps 2 to 4 are repeated	
CONCLUSION:	Coach successfully login and add available timings to the system.	
POST-CONDITION:	The coach's ID will be included into the list for the specific time slot.	
BUSINESS RULES:		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:	The system needs to update the change immediately when the operation by coach is completed.	
ASSUMPTIONS:	The coach has an account and is logged in.	
OPEN ISSUES:		