Advanced Programming

Project Proposal

Team Members

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Title: "Sport Clubs Event Management System"

Abstract

The project targets sport lovers who are looking for a good place that brings them all their beloved sports and their events at one place and frees them of the trouble of having to go through visiting random places with hopes to find what they are looking for. The application the project intends to deliver aims to provide a solution to this problem and makes end user's life easier by providing with an easy to use interface that unlocks all its functionalities upon a simple login. Once the user has landed on main screen all latest events along with various menu options are displayed which render the user with many abilities like starting a new sports club that the system supports, along with adding events for a club and joining new clubs and much more. The application does not restrict that a club can only be added by some admin, in fact it rids of this third party and puts user in control.

Platform Employed

- Android Studio

API Name	Type	Request	Response Successful	Response Failure

Login	POST	{
		  "username" : "my_username",
		  "password" : "my_password"
		}
			{
			"status_code": 200,
			"status_message": "Login successful"
			}
				{
				"status_code": 299,
				"status_message": "No user associated with this username exists"
				}
				
				{
				"status_code": 300,
				"status_message": "Password does not match the username address given"
				}

Logout	DELETE	{
		"username" : "my_username"
		}
			{
			"status_code": 200,
			"status_message": "Logout successful"
			}
				{
				"status_code": 299,
				"status_message": "No user associated with this username exists"
				}

Sign up	POST	{
		  "username" : "my_username",
		  "password" : "my_password",
		"confirm_password": "my_password",
		"email": "me@mail.com",
		"full_name" : "Name LastName"
		}
			{
			"status_code": 200,
			"status_message": "Sign-up successful"
			}
				{
				"status_code": 301,
				"status_message": "Invalid email address"
				}
				
				{
				"status_code": 302,
				"status_message": "Password is too weak"
				}
				
				{
				"status_code": 303,
				"status_message": "Username is not unique"
				}
				
				{
				"status_code": 304,
				"status_message": "Confirmed password does not match password"
				}

Forget Password	PATCH	{ "email": "me@mail.com"	{ "status_code": 200,	{ "status_code": 299,

			"status_message": "Email with new password sent" }	"status_message": "No user associated with this email exists" } { "status_code": 301, "status_message": "Invalid email address" }

Edit full Profile	POST	{
		    "username" : "my_username",
		    "password" : "my_password",
		"confirm_password": "my_password",
		"email": "me@mail.com",
		"full_name" : "Name LastName"
		}
			{
			"status_code": 200,
			"status_message": "Profile edited successfully"
			}
				{
				"status_code": 301, "status_message": "Invalid email address"
				}
				{
				"status_code": 302, "status_message": "Password is too weak"
				}
				{
				"status_code": 303, "status_message": "Username is not unique"
				}
				
				{
				"status_code": 304, "status_message": "Confirmed password does not match password"
				}

Edit partial Profile	PATCH	{
		"field_to_edit" : "field_name",
		"new_value": "value"
		}
			{
			"status_code": 200, "status_message": "Profile field edited successfully"
			}
				{
				"status_code": 305, "status_message": "Incorrect field name"
				}

Get profile details	GET	{
		"user_name": "any_user_name"
		}
			{
			"status_code": 200, "status_message": "user retrieved successfully", "user":{
			"user_name": "any_user_name",
			"email": "me@mail.com", "full_name" : "Name LastName",
				{
				"status_code": 299, "status_message": "No user associated with this username exists"
				}

"clubs_joined":[
{
"club_name": "name",
"type": "name_of_sport",
 "description" :
"description of the
particular club is here",
"added_by":"user_name"
},
{
"club_name": "name",
"type": "name_of_sport",
 "description" :
"description of the
particular club is here",
"added_by":"user_name"
}],
"event_joined":[
{
"event_name": "name",
"type": "name_of_sport",
 "description" :
"description of the
particular event is here",
"date_time" : "DD:MM:YY
hh:mm",
"location" :
"location_name",
"added_by":"user_name"
},
{
"event_name": "name",
"type": "name_of_sport",
 "description" :
"description of the
particular event is here",
"date_time" : "DD:MM:YY
hh:mm",
"location" :
"location_name",
"added_by":"user_name"
}]
}
}

Search Event	GET	{ "name": "event_name", "type" : "sports_name", "location" : "location_name"	{ "status_code": 200, "status_message": "list of events retrieved	{ "status_code": 401, "status_message": "No such event exists"

		}	successfully", "events":[{ "event_name": "name", "type": "name_of_sport", "description" : "description of the particular event is here", "date_time" : "DD:MM:YY hh:mm", "location" : "location_name", "added_by":"user_name", "for_club" : "club_name" }, { "event_name": "name", "type": "name_of_sport", "description" : "description of the particular event is here", "date_time" : "DD:MM:YY hh:mm", "location" : "location_name", "added_by":"user_name", "for_club" : "club_name" }] }	}
Add Event	POST	{ "event_name": "name", "type": "name_of_sport", "description" : "description of the particular event is here", "date_time" : "DD:MM:YY hh:mm", "location" : "location_name", "added_by":"user_name" , "for_club" : "club_name" }	{ "status_code": 200, "status_message": "Event added successfully" }	{ "status_code": 400, "status_message": "Event name is not unique" }
Join an Event	POST	{ "event_name": "name", "username" : "my_username" }	{ "status_code": 200, "status_message": "Event joined successfully" }	{ "status_code": 401, "status_message": "No such event exists" } { "status_code": 299,

				"status_message": "No user associated with this username exists" }
Edit Event details	POST	{ "event_name": "name", "type": "name_of_sport", "description" : "description of the particular event is here", "date_time" : "DD:MM:YY hh:mm", "location" : "location_name" , "for_club" : "club_name" }	{ "status_code": 200, "status_message": "Event edited successfully" }	{ "status_code": 401, "status_message": "No such event exists" }
Add Club	POST	{ "club_name": "name", "type": "name_of_sport", "description" : "description of the particular club is here", "added_by":"user_name" }	{ "status_code": 200, "status_message": "Club added successfully" }	{ "status_code": 400, "status_message": "Club name is not unique" }
Join Club	POST	{ "club_name": "name", "username" : "my_username" }	{ "status_code": 200, "status_message": "Club joined successfully" }	{ "status_code": 401, "status_message": "No such event exists" } { "status_code": 299, "status_message": "No user associated with this username exists" }
Search Clubs	GET	{ "club_name": "name", "type": "name_of_sport" }	{ "status_code": 200, "status_message": "list of events retrieved successfully", "clubs":[{ "club_name": "name", "type": "name_of_sport", "description" : "description of the particular club is here", "added_by":"user_name" },	{ "status_code": 402, "status_message": "No such club exists" }

			{
			"club_name": "name",
			"type": "name_of_sport",
			 "description" :
			"description of the
			particular club is here",
			"added_by":"user_name"
			}]
			}	

Leave Event	DELETE	{
		"name": "event_name",
		"username" : "my_username"
		}
			{
			"status_code": 200,
			"status_message": "Event
			left successfully"
			}
				{
				"status_code": 401,
				"status_message": "No
				such event exists"
				}
				
				{
				"status_code": 299,
				"status_message": "No user
				associated with this
				username exists"
				}

Leave Club	DELETE	{
		"name": "club_name",
		"username" : "my_username"
		}
			{
			"status_code": 200,
			"status_message": "Club
			left successfully"
			}
				{
				"status_code": 402,
				"status_message": "No
				such club exists"
				}
				
				{
				"status_code": 299,
				"status_message": "No user
				associated with this
				username exists"
				}

Get Event details	GET	{
		"name": "event_name"
		}
			{
			"status_code": 200,
			"status_message": "event
			retrieved successfully",
			"event":
			{
			"event_name": "name",
			"type": "name_of_sport",
			 "description" :
			"description of the
			particular event is here",
			"date_time" : "DD:MM:YY
			hh:mm",
			"location" :
				{
				"status_code": 401,
				"status_message": "No
				such event exists"
				}

			"location_name", "added_by":"user_name" } }	
Get Club details	GET	{ "name": "club_name" }	{ "status_code": 200, "status_message": "club retrieved successfully", "club": { "club_name": "name", "type": "name_of_sport", "description" : "description of the particular club is here", "added_by":"user_name" } }	{ "status_code": 402, "status_message": "No such club exists" }
Get upcoming Events	GET	{ "date_time" : "DD:MM:YY hh:mm" }	{ "status_code": 200, "status_message": "list of events retrieved successfully", "events":[{ "event_name": "name", "type": "name_of_sport", "description" : "description of the particular event is here", "date_time" : "DD:MM:YY hh:mm", "location" : "location_name", "added_by":"user_name" }, { "event_name": "name", "type": "name_of_sport", "description" : "description of the particular event is here", "date_time" : "DD:MM:YY hh:mm", "location" : "location_name", "added_by":"user_name" }] }	{ "status_code": 401, "status_message": "No such event exists" }

Screens and Interaction

Following figure depicts all interfaces the project is intended to provide along with all major redirections and interactions to make the flow of control understandable.