

# **Swimming Pool Management Software (SPMS)**

## **TEST SUITE**

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# Contents

## UNIT TESTS

Database connection method	3
Login method	3
Enroll in course	4
Manage Pool Slots	5
Manage Bookings of Pool	7
Pay Membership fee	8
Manage Membership ( Modify or Cancel Membership )	9
Swimming Competitions	10
Swimming Classes	12
Set format of an event	13
Putting Notice in the portal	14
Posts	15
	16

# UNIT TESTS

## Database connection method

This testing is for the database connection method and checks for events when the database is available and when it is not available due to connection failure or other technical reasons.

Input	Expected Output
Connection to the Database in the given URL is not available	An error message should be displayed
Connection to the Database at the given URL is available	No error message should be displayed

## Login method

This testing checks the login method for the users of the SPMS in various scenarios.

Users of SPMS can be :

1. Member
2. Non-member
3. Pool Manager
4. Event Manager
5. Pool Management Committee Member
6. Course Coordinator

Input	Expected Output
Entered UserId Does not exist in database	Error Message should be displayed “ Enter Valid UserId “
User account is created, but entered username or password is wrong	Error message should be displayed “Enter correct userId/password”
User account is created, and entered username or password is correct	No Error message should be displayed and the user should be logged in

# Enroll in course

This testing checks the Enroll in course method in the SPMS interface in different cases on entering the required data and clicking the enroll button.

Input	Expected Output
Any of the entry is blank	An error message should be displayed
All the entries are not blank and are valid	No error message should be displayed and membership form should be sent to the manager for verification
Entry for userId or the course is already existing	An error message should be displayed

# Manage Pool Slots

This testing tests the methods like add /remove/reschedule pool slots.

Input	Expected Output
Any of the entry is blank	An error message should be displayed
Entry for slot timing is not in valid format	An error message should be displayed
Current entry is already present in the database, or one or more entered fields mis-match with a previous entry in the database i.e. there is a slot clash	An error message should be displayed
All entry fields are correctly entered with the right format and there is no slot clashes	Successful input message displayed and corresponding changes are updated in the database

# Manage Bookings of Pool

This testing tests the book pool, book pool’s slot and cancel booking feature

Input	Expected Output
Book pool button is clicked and the chosen slot is available.	“Successfully booked” should be displayed.
Book pool button is clicked and the chosen slot isn’t available.	An error message should be displayed
Book pool’s slot button is clicked and the members haven’t exhausted the maximum number of uses.	“Successfully booked” should be displayed.
Book pool’s slot button is clicked and the members have exhausted the maximum number of uses.	An error message should be displayed

# Pay Membership fee

This testing will test our payment interface.

Input	Expected Output
All payment details are correctly filled.	User should be redirected to payment gateway.
All payment details aren't correctly filled.	An error message should be displayed



# Swimming courses

This testing checks the addition/deletion of new courses.

Input	Expected Output
All details i.e. course coordinator details, duration etc are correct.	“Successfully added” should be displayed
Any details are missing or incorrect.	Error message should be displayed.

# Swimming Competitions

This testing checks the scheduling swimming competitions, deciding its format, purchasing tickets.

Input	Expected Output
Schedule a competition button is clicked and slot isn't available	"This slot is currently not available, please select another slot" should be printed.
Schedule a competition button is clicked and slot is available	An error message should be displayed
The customer details are entered in the wrong format before pressing this button. Example: Phone number does not have 10 digits.	An error message should be displayed
The medicine ID exists, quantity demand is met and customer details are in the correct format before pressing this button.	No error message is displayed and a receipt containing the customer details and medicine list along with their quantity is provided to the shop owner in a document for printing.

# Manage Course Classes

This testing checks the Schedule classes, reschedule classes, take extra classes.

Input	Expected Output
Any of the above functionalities button is clicked and a swimming pool slot is available.	“Successfully booked” should be printed and all the participants should be notified accordingly.
Any of the above functionalities button is clicked and the swimming pool slot isn’t available.	“This slot is currently not available, please select another slot” should be printed.

# Posts

This testing checks all the functionalities related to posts i.e. view post, make post, post a notice.

Input	Expected Output
Click on view posts button	The different posts should be displayed to different users on the basis of their roles i.e members can view only public posts, pool committee members can view public as well as private posts while course coordinator can only view complaints regarding the course.
Click on post a notice button	The notice should be posted to the social dashboard of the intended audience and they should be notified accordingly.
Click on make a post button.	Make a public/private post, register a complaint option should be provided to the user

