Test plan and test case specifications for functional testing

Student Event Management Portal

Student event management portal is a web application whose front end is in HTML/Java script, the backend uses the NodeJS framework, and the database used is MogoDB. This test plan is for functional testing of the entire application (system testing). In this application, the back end APIs are tested using some test scripts. However, the full application is to be tested manually (automated scripts with web front end, though possible, is complicated and was not done for the project.)

This initial test plan lists the set of test cases that should be executed for testing. For each test case, the functionality being tested, the condition it is testing for, the inputs to be given to exercise that condition, and expected outputs are specified. The last column indicates the test cases for which there are test cases in the test scripts that are there for testing the backend functionality.

Explore Upcoming Events

Functionality/Condition to be Tested	Input Action/Input Values	Expected Output/Behavior	In test scripts?
User lands on homepage	Navigate to homepage	List of upcoming events displayed	
User clicks on "Home" button	Click on "Home" button	User is redirected to the main landing page showcasing upcoming events	
User refreshes the page	Refresh the page	List of upcoming events refreshed	

Explore Clubs

User clicks on "Clubs" button	Click on "Clubs" button	User is redirected to the clubs' information page	
User views club information	View club information	Club information is displayed on the page	
User can view information for each club	Navigate through to the club; click the club (try for a few clubs)	Information for the club is shown	Y
User can navigate back to previous page	Click on back button	User returns to the previous page	
User is prompted to log in if not logged in	Click on "Clubs" button	Error is returned; user prompted (by FE) to log in before accessing club information	Y
User Logs out	Click on 'Logout' button	User is logged out and redirected to the login page	

User Log-In

Click on the login button	Click on login button	User is prompted to log in through Google API	
Enter valid login credentials	Enter valid credentials	Successful login and redirection back to main page	Y

Enter invalid login credentials	Enter invalid credentials	Error message indicating invalid credentials	Y
Successful login	Login through Google API	Redirected back to main page with logout button displayed	

Register for Events

Explore upcoming events	Navigate to events page	List of upcoming events displayed	Y
Click on an event to view details	Click on event name	Event details page displayed	Y
Click on "Register" button	Click on "Register" button	User gets successfully registered message in email; redirected to home page	Y

View Profile

Click on "Profile" button	Click on "Profile" button	User is redirected to their profile page - details (name, rollno, email, badge) shown. For user and club coordinator, diff badges should be shown	
Prompted to log in if not logged in	Click on "Profile" button	User is prompted to log in before accessing profile	

Propose an Event

Click on "Clubs" option	Click on "Clubs" option	User is redirected to clubs information page	
Select respective club	Click on club from list	User is redirected to club-specific page	
Click on "Propose Event" button	Click on "Propose Event" button	Event proposal form appears	
Fill out the form	Provide necessary information in the form	Form filled out with event details	
Submit the form	Click on submit button	Confirmation message displayed; check in admin profile that event is added, and is listed as "pending"	Y
Form validation	Submit empty form or invalid data	Error messages displayed for incomplete or invalid form submission	

Edit Clubs' Information

Select club from "Clubs" page	Click on club from list	Club-specific page displayed	Y
Click on "Edit Club Information" button	Click on "Edit Club Information" button	Club information editing interface displayed	
Edit club description; click save	Edit club description; members list, any other info	Club description updated; check the new description	
Edit members list	Edit members list; click save	Members list updated	
Choose desired club	Select club from list	Club-specific editing interface displayed	Y

Approve Event

Access 'Manage' option (under admin)	Click on 'Manage' option	Management options displayed	
Choose 'Pending Event Requests'	Click on 'Pending Event Requests'	List of pending event proposals displayed	
Select a proposal to review	Click on proposal from list	Proposal details displayed	
Decide to approve event	Click on 'Approve' button	Confirmation message displayed indicating success; event statuts updated from pending to approved - this to be checked by logging in as event coordinator	
Decide to reject event	Click on 'Reject' button	Confirmation message displayed indicating success; event statuts updated from pending to rejected	
No proposals to review	No pending event proposals	Message displayed indicating no pending proposals	

Change the Club Coordinator

Choose 'Update Events Coordinator'	Click on 'Update Events Coordinator'	Events Coordinator update interface displayed	
View current Events Coordinator's details	After selecting option	Current Events Coordinator's details displayed	
Click on "Edit" button	Click on "Edit" button next to Events Coordinator's details; save at end	Editing interface displayed; details updated	
Access restriction for old club Coordinator	Login as club coordinator (for old coordinator)	Old club Coordinator cannot access 'Update Events Coordinator' option	
Update profile badges	After saving changes	Profile badges updated for current and new coordinators	

Request the Formation of a New Club

Click on "Propose a New Club" button	Click on "Propose a New Club" button	Form for proposing new club is displayed	
Fill out the form	Provide necessary information in the form; click save	Form filled out with club details; confirmation message displayed; request forwarded for approval	
Form validation	Submit empty form or invalid data	Error messages displayed for incomplete or invalid form submission	

Approve New Club Requests

Choose 'Pending New Club Requests' (admin login)	Click on 'Pending New Club Requests'	List of pending club requests displayed	
View list of pending club requests	After selecting option	List of pending club requests displayed	
Select a request to review	Click on request from list	Request details displayed	
Decide to approve club request	Click on 'Approve' button	Club request approved; confirmation message displayed; club added to the portal	Y

Decide to reject club request	Click on 'Reject' button	Club request rejected; confirmation message displayed; club not added to portal	Y
No requests to review	No pending club requests	Message displayed indicating no pending requests	

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Prepared by: Shreya Bhatia, Tarushi Gandhi, Ramanjeet Singh, Bhagesh Gaur.