

### Login Module

Test ID	Name	Precondition Steps	Steps	Expected Results	Actual Result	Status (Pass/Fail)
1	User login	<ul style="list-style-type: none"><li>• User is student or supervisor</li><li>• User must be in database.</li></ul>	<ol style="list-style-type: none"><li>1. Fill in correct username and password</li><li>2. Click Login button</li></ol>	Redirect to user's homepage	Redirect to user's homepage	Pass
2	Admin login	<ol style="list-style-type: none"><li>1. User is admin</li><li>2. User must be in database.</li></ol>	<ol style="list-style-type: none"><li>1. Fill in correct username and password</li><li>2. Click Login button</li></ol>	Redirect to admin page	Redirect to admin page	Pass
3	Incorrect authorization		<ol style="list-style-type: none"><li>1. Fill in incorrect username and password</li><li>2. Click Login button</li></ol>	Show error message	Show error message	Pass
4	Inactive account login	<ol style="list-style-type: none"><li>1. User must be registered.</li><li>2. User account is inactive</li></ol>	<ol style="list-style-type: none"><li>1. Fill in incorrect username and password</li><li>2. Click Login button</li></ol>	Show error message	Show error message	Pass
5	Logout	<ol style="list-style-type: none"><li>1. User must be logged in.</li></ol>	<ol style="list-style-type: none"><li>1. Click Logout button</li></ol>	Redirect to login page	Redirect to login page	Pass

**Profile Module**

<b>Test ID</b>	<b>Name</b>	<b>Precondition Steps</b>	<b>Steps</b>	<b>Expected Results</b>	<b>Actual Result</b>	<b>Status (Pass/Fail)</b>
1	View profile	1. User must be logged in.	1. Go to Profile tab	User's info are displayed correctly		
2	Edit profile	1. User must be logged in.	1. Fill in new info 2. Click Submit button	User's info are updated accordingly		
3	Search profile	1. User must be logged in.	1. Type in keyword: username or user type (student or supervisor) 2. Click Search button	List profile with matching keyword for username and type in a table. .		
4	Update progress	1. User must be logged in. 2. User is supervisor.	1. Go to the supervising research student's profile 2. Click on Update Progress 3. Input latest progress status 4. Click Update button	Research student's progress are updated accordingly.		

## User Management

Test ID	Name	Precondition Steps	Steps	Expected Results	Actual Result	Status (Pass/Fail)
1	Add user	<ol style="list-style-type: none"> <li>1. User must be logged in.</li> <li>2. User is admin.</li> </ol>	<ol style="list-style-type: none"> <li>1. Input user name and password for new user.</li> <li>2. Click Add User</li> <li>3. Create new Profile with newly created user</li> <li>4. Click Add Profile</li> </ol>	New user and profile added to database with the correct information.		
2	Delete user	<ol style="list-style-type: none"> <li>1. User must be logged in.</li> <li>2. User is admin.</li> </ol>	<ol style="list-style-type: none"> <li>1. Select the user to be deleted.</li> <li>2. Click Delete button.</li> </ol>	Selected user and profile record is removed from the database.		
3	Edit user	<ol style="list-style-type: none"> <li>1. User must be logged in.</li> <li>2. User is admin.</li> </ol>	<ol style="list-style-type: none"> <li>1. Select the user to be edited.</li> <li>2. Click Edit button</li> <li>3. Input field to be edited.</li> <li>4. Click Save button.</li> </ol>	Selected user's information are updated.		
4	Search user	<ol style="list-style-type: none"> <li>1. User must be logged in.</li> <li>2. User is admin.</li> </ol>	<ol style="list-style-type: none"> <li>1. Type in keyword: username or user type (student or supervisor)</li> <li>2. Click Search button</li> </ol>	List profile with matching keyword for username and type in a table. .		
			<ol style="list-style-type: none"> <li>1. Select user type</li> </ol>	List user of selected user type.		

## Appointment Module

Test ID	Name	Precondition Steps	Steps	Expected Results	Actual Result	Status (Pass/Fail)
1	User(student and supervisor) is able to view appointment details	<ol style="list-style-type: none"><li>1. User must be log into the system</li><li>2. User has added an appointment before</li></ol>	<ol style="list-style-type: none"><li>1. Navigate to appointment page</li></ol>	List of related appointment details is shown to respective user (empty table if no appointment)		
2	User is able to make appointment	<ol style="list-style-type: none"><li>1. User must be a student</li><li>2. User must be log into the system</li></ol>	<ol style="list-style-type: none"><li>1. Navigate to appointment page</li><li>2. All fields in form is fill correctly</li><li>3. Submit</li></ol>	Appointment is added to the form		
3	User is able to approve/reject appointment	<ol style="list-style-type: none"><li>1. User must be a supervisor</li><li>2. User must be log into the system</li></ol>	<ol style="list-style-type: none"><li>1. Navigate to appointment page/the notification bar</li><li>2. Fill form</li><li>3. Submit</li></ol>	Appointment Status is updated in the database		
4	User is unable to add appointment	<ol style="list-style-type: none"><li>1. Date is before current date</li></ol>	<ol style="list-style-type: none"><li>1. Navigate to appointment page</li><li>2. All fields in form is fill, but the date is before current date</li><li>3. Submit</li></ol>	Error message shown that the form is invalid		

## File Module Login

Test ID	Name	Precondition Steps	Steps	Expected Results	Actual Result	Status (Pass/Fail)
1	Upload File	<ul style="list-style-type: none"><li>• User must be logged into the system.</li><li>• User must be student or supervisor</li></ul>	<ol style="list-style-type: none"><li>1. Navigate to file page.</li><li>2. Click “add file”.</li><li>3. Select file and fill in file name.</li><li>4. Upload</li></ol>	File is uploaded to the database.		
2	Delete File	<ul style="list-style-type: none"><li>• User must be logged into the system</li><li>• User must be student or supervisor</li><li>• The file must be belong to the user.</li></ul>	<ol style="list-style-type: none"><li>1. Navigate to file page.</li><li>2. Press “delete” button of the file that user want to delete.</li></ol>	File is deleted and removed from database.		
3.	Search File	<ul style="list-style-type: none"><li>• User must be logged into the system</li><li>• User must be student or supervisor</li></ul>	<ol style="list-style-type: none"><li>1. Navigate to file page.</li><li>2. Fill the file name or keyword in search bar.</li><li>3. Press “search” button.</li></ol>	Only files that matched the keyword and related to that user will display.		

4.	Download File	<ul style="list-style-type: none"><li>• User must be logged into the system</li><li>• User must be student or supervisor</li><li>• The file must have related to the file.</li></ul>	<ol style="list-style-type: none"><li>1. Navigate to file page.</li><li>2. Press “download” button of the file that user want to download.</li></ol>			
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### Subject Management Module ( Admin )

Test ID	Name	Precondition Steps	Steps	Expected Results	Actual Result	Status (Pass/Fail)
1	Add new subject.	<ol style="list-style-type: none"><li>1. User must be logged into the system</li><li>2. User must be admin.</li></ol>	<ol style="list-style-type: none"><li>1. Navigate to subject management page.</li><li>2. Select “add subject”</li><li>3. Fill in subject name, credit hour, fee.</li><li>4. Click “save”.</li></ol>	New subject added to database.		

### Subject Management Module ( Student )

Test ID	Name	Precondition Steps	Steps	Expected Results	Actual Result	Status (Pass/Fail)
1	View enrolled subjects	<ul style="list-style-type: none"><li>• User must logged into system.</li><li>• User must be student.</li></ul>	<ol style="list-style-type: none"><li>1. Navigate to subject page.</li></ol>	Subject list displayed.		
2.	Enroll new subject	<ul style="list-style-type: none"><li>• User must logged into system.</li></ul>	<ol style="list-style-type: none"><li>1. Navigate to subject page.</li><li>2. Click “enroll new</li></ol>	Subject added to the student’s subject list.		

		<ul style="list-style-type: none"> <li>User must be student.</li> </ul>	subject” button. 3. Select subject. 4. Click “enroll” button.			
3.	Delete subject	<ul style="list-style-type: none"> <li>User must logged into system.</li> <li>User must be student.</li> <li>Student must enrolled the subject that wish to delete.</li> </ul>	1. Navigate to subject page. 2. Click “delete” button of the subject that the student wish to delete.	Subject removed from the subject list.		



### Transaction Module

Test ID	Name	Precondition Steps	Steps	Expected Results	Actual Result	Status (Pass/Fail)
1	User is able verified transaction	<ul style="list-style-type: none"><li>• User must be student</li><li>• User must be log into the system</li></ul>	<ol style="list-style-type: none"><li>1. Navigate to Transaction page</li><li>2. Fill form</li><li>3. Submit</li></ol>	Transaction details are added to the table		
2	User is able generate transaction report	<ul style="list-style-type: none"><li>• User must be student</li><li>• User must be log into the system</li><li>• User has already verified transaction</li></ul>	<ol style="list-style-type: none"><li>1. Navigate to Transaction page</li><li>2. Select report generation</li></ol>	Report will be shown to User		
3	User is unable to generate transaction report	<ul style="list-style-type: none"><li>• User must be student</li><li>• User must be log into the system</li><li>• User has not verified transaction</li></ul>	<ol style="list-style-type: none"><li>1. Navigate to Transaction page</li><li>2. Select report generation</li></ol>	Error message will be shown "invalid, transaction has not been verified"		

Application module

Test ID	Name	Precondition Steps	Steps	Expected Results	Actual Result	Status (Pass/Fail)
1	Application information fill in	<ul style="list-style-type: none"> <li>Must in application form page</li> </ul>	<ol style="list-style-type: none"> <li>Fill in all information required</li> <li>Click submit button</li> </ol>	Redirect to login page	Redirect to login page	Pass
2	Incorrect fill in information and empty	<ul style="list-style-type: none"> <li>Must in application form page</li> </ul>	<ol style="list-style-type: none"> <li>Click submit button</li> </ol>	Display error message		
3	Admin is able to view list of application request and view detail information of applicator	<ul style="list-style-type: none"> <li>User must be admin</li> </ul>	<ol style="list-style-type: none"> <li>Insert username and password</li> <li>Click login button</li> <li>Click view button to display detail information</li> </ol>	<ol style="list-style-type: none"> <li>Redirect to list page and show all application request</li> <li>Redirect to detail page</li> </ol>		
4	Admin is able to approval application request and create a new username	<ul style="list-style-type: none"> <li>User must be admin</li> </ul>	<ol style="list-style-type: none"> <li>Fill in new username and password and click create new user button</li> </ol>	Redirect to list page and new username is created and application request is removed from list table		
5	Admin is able to reject application request	<ul style="list-style-type: none"> <li>User must be admin</li> </ul>	<ol style="list-style-type: none"> <li>In detail page and click reject button to remove the application request</li> </ol>	Redirect to list page and the rejected application request is removed		

