Categories	Modules	Descriptions
Authentication	Login	Authenticate users such as admin, lecturer, and students by entering username and password.
	Change Password	<ul> <li>Users must be authorized into the system to change password.</li> <li>Users need to re-enter their current password and enter new password to change password</li> <li>Users receives password change information on alternate email.</li> </ul>
	Change Email	<ul> <li>Users must be authorized into the system to change alternate email.</li> <li>Users need to enter current password and new alternate email</li> </ul>
	Forgot Password	<ul> <li>Users need to enter their alternate email.</li> <li>Users receives link on alternate email to create new password.</li> </ul>
	Locked Account due to Wrong Password Entries (6 times)	<ul> <li>System sends link via email to user's alternate email.</li> <li>Users required to open the link and change their password.</li> </ul>
	First Time Login	Users need to enter new password and alternate email.
Profile	User Profile	Users views and updates their information such as username, password, and email.
Admin	Manage User	Create, Read, Update and Delete, student, and lecturer account.
	Manage Course	Create, Read, Update and Delete courses.
	Course Assignation	Create, Read, Update and     Delete course assignation to     lecturer.
Lecturer	Learning Material	Create, Read, Update and Delete learning material

	Assignment Quiz	<ul> <li>Create, Read, Update and Delete assignment.</li> <li>Uploads assignment files.</li> <li>Downloads assignment files.</li> <li>Create, Read, Update and Delete quiz.</li> <li>Create, Read, Update and Delete quiz questions.</li> </ul>
Student	Course Registration	<ul> <li>View students mark.</li> <li>Registers to an existing course.</li> <li>Views registered course.</li> </ul>
	Learning Material	<ul> <li>Downloads learning material</li> </ul>
	Assignment	<ul> <li>Views assignment based on each registered course.</li> <li>Downloads assignment files.</li> <li>Uploads and deletes answer files.</li> </ul>
	Quiz	<ul> <li>Views quiz based on each registered course.</li> <li>Answers quiz and confirms answer.</li> <li>Views quiz mark.</li> </ul>
Security	Hash Function	<ul> <li>Users' private credentials are hashed using SHA256.</li> </ul>
	OWASP Application	Complies ASVS for
	Security Verification	authentication and session management verification.
	Standard (ASVS)	
Session	Active session	Views active session
management	Terminate session	Users able to terminate active session
	Login log	<ul> <li>Users able to view past login details</li> </ul>