User role/perspective	Feature Name	Feature brief description	Feature utility (importance) to the users (Low = 1, Medium = 2, High = 3)	Estimated Feature development difficulty or risk (Dificult or high risk = 1, Medium difficulty or risk = 2, Rather easy and low risk = 3)	Feature priority score (utility * difficulty)
Student/Admin/Instructor	Feature 1	The system must allow users to create an account with an email and password	3	2	6
Student/Admin/Instructor	Feature 2	The system must allow users to log into their account by entering their email and password	3	2	6
Student/Admin/Instructor	Feature 3	The system must allow users to reset their password by clicking "I forgot my password" and receive a link to reset their password to their entered and associated email	3	1	3
Student/Admin/Instructor	Feature 4	The system must redirect the user to their home page after successfully logging into their account	1	3	3
Student/Admin/Instructor	Feature 5	The system must inform the user if they were unsuccessful logging into their account with the entered email and password combination	2	3	6
Student/Admin/Instructor	Feature 6	The system must log in the user and redirect them to the home page after account creation	2	3	6
Admin/Instructor	Feature 7	The system must allow the user to create a course	3	1	3
Instructor	Feature 8	The system must prompt the user to enter name of the course, description and add a syllabus when prompted with the ability to create a course	2	2	4
	Feature 9	The system must display a message to the user stating the request to add a course has been sent to an admin for approval	2	3	6
Admin	Feature 10	The system must display a message to the user stating the course has been successfully created	2	3	6
Admin	Feature 11	The system must send a notification to the user to approve a request for the addition of a course	2	1	2
Admin	Feature 12	The system must allow the user to accept or deny the request for the addition of a course	3	1	3
Instructor	Feature 13	The system must notify the user with a message stating if their request to add a course has been approved or denied	1	2	2
Admin/Instructor	Feature 14	The system must allow the user to manage and edit course information	2	1	2
Admin/Instructor	Feature 15	The system must associate the user with the courses they created	3	3	9
Instructor/Student	Feature 16	The system must display the list of courses associated with the user's account	3	3	9
Admin	Feature 17	The system must display all existing courses	3	3	9
Admin	Feature 18	The system must allow the user to delete a course from the list of available courses	2	2	4
Admin	Feature 19	The system must allow the user to assign an Instructor to a course	2	2	4
Admin	Feature 20	The system must allow the user to assign a Student to a course	2	2	4
Admin	Feature 21	The system must allow the user to delete a Student from a course	2	2	4
Instructor	Feature 22	The system must allow the user to view all Students enrolled in a course they instruct	3	3	9
Instructor	Feature 23	The system must allow the user to create a syllabus	2	2	4
Instructor	Feature 24	The system must allow the user to edit a syllabus	1	2	2
Instructor	Feature 25	The system must allow the user to post a syllabus	2	2	4
Instructor	Feature 26	The system must allow the user to create a course description	2	2	4
Instructor	Feature 27	The system must allow the user to edit a course description	1	2	2
Instructor	Feature 28	The system must allow the user to post a course description	2	2	4
Instructor	Feature 29	The system must allow the user to delete module files	1	2	2
Instructor	Feature 30	The system must allow the user to edit module files	1	2	2
Instructor	Feature 31	The system must allow the user to post module files	2	2	4
Instructor	Feature 32	The system must allow the user to upload module files	2	2	4
Instructor	Feature 33	The system must allow the user to set the module file has Unpublished or Published	2	2	4
Instructor	Feature 34	The system must allow the user to view Unpublished and Published module files	2	2	4
Student	Feature 35	The system must not allow the user to view Unpublished module files for courses they have signed up for	2	2	4
Student	Feature 36	The system must allow the user to view Published module files for courses they have signed up for	2	2	4
Instructor	Feature 37	The system must allow the user to create an assignment for a course they manage	2	2	4
Instructor	Feature 38	The system must allow the user to edit an assignment for a course they manage	1	2	2
Instructor	Feature 39	The system must allow the user to post an assignment for a course they manage	2	2	4
Student	Feature 40	The system must have a gradebook with entries for every course the user is signed up for	3	1	3
Student/ Instructor	Feature 41	The system must be able to store the maximum points for an assignment	3	2	6
Instructor	Feature 42	The system must allow the user to assign a grade to an assignment for a respective student	3	2	6
Instructor	Feature 43	The system must allow the user to edit a grade to an assignment for a respective student	1	2	2
Instructor	Feature 44	The system must allow the user to delete a grade to an assignment for a respective student	1	2	2
Instructor	Feature 45	The system must allow the user to view grades for all assignments for every student registered in the course	3	1	3
Student	Feature 46	The user must be able to view a grade received for an assignment	3	3	9
Student/Instructor	Feature 47	The system shall be able to store total points for all assignments per student	2	2	4
Student/Instructor	Feature 48	The system shall be able to store total percentage of points for all assignments per student	2	2	4
Student	Feature 49	The system shall allow the user to join a course with an "add course" ability	3	2	6

Student	Feature 50	The system shall present a prompt that allows the user to search courses by name or professor's name	1	1	1
Student	Feature 51	The system shall allow the user to submit relevant files for an assignment for a course they are enrolled in	3	2	6
Student	Feature 52	The system shall allow the user to view submissions for an assignment for a course they are enrollled in	2	2	4
Admin	Feature 53	The system shall allow the user to add a user account	3	3	9
Admin	Feature 54	The system shall allow the user to delete a user account	3	3	9
Admin	Feature 55	The system shall allow the user to view an account	3	3	9

Use Case name --> Feature name | v	Use case 001	UC 002	UC 003	UC 004	UC 005	UC 006	UC 007	UC 008	UC 009	UC 010	UC 011	UC 012	UC 013	UC 014	UC 015	UC 016	UC 017	UC 018
Feature 1		x																
Feature 2	x																	
Feature 3	x																	
Feature 4	x																	
Feature 5	x																	
Feature 6		x																
Feature 7			x															
Feature 8			x															
Feature 9			x															
Feature 10			x															
Feature 11			x															
Feature 12			x															
Feature 13			x															
Feature 14			x															
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Feature 34										x	x							
Feature 35																x		
Feature 36																x		
Feature 37						x												
Feature 38						x	x											
Feature 39						x	x											
Feature 40								x										
Feature 41								x										
Feature 42								x										
Feature 43								x										
Feature 44								x										
Feature 45									x						x			
Feature 46																		
Feature 47													x					
Feature 48													x					
Feature 49												x						
Feature 50												x						

Feature 51														x				
Feature 52												x						
Feature 53																		x
Feature 54																	x	
Feature 55																	x	x

Quality attribute	Quality Scenario name	Quality Scenario brief description	Quality Scenario utility (importance) to the users (Low = 1, Medium = 2, High = 3)	Estimated Quality Scenario development difficulty or risk (Dificult or high risk = 1, Medium difficulty or risk = 2, Rather easy and low risk = 3)	Scenario priority score (utility * difficulty)
Usability	Users should be able to navigate the software intuitively without extensive training.	Users can find and access sports courses and assignments easily, allowing for seamless engagement.	3	2	6
Performance	The software should load pages and assignments quickly to enhance user experience.	Users expect minimal loading times when accessing different sections of the coursework.	2	2	4
Accessibility	The software must be usable by individuals with disabilities.	The platform should conform to accessibility standards to support users with different needs.	2	2	4
Scalability	The software should handle an increasing number of users and courses without performance degradation.	As the user base grows, the system must efficiently support more simultaneous users and additional sports courses.	2	2	4
Engagement	The software should be fun to use and engage the user.	The platform should incorporate badges, points, and leaderboards to motivate users to participate actively in quizzes and assignments.	3	2	6
Content Accuracy	The software must provide accurate and up-to-date information on Olympic sports.	Information about rules, history, and facts should be current and verified by experts to maintain credibility.	2	3	6
User Support	The software should offer help and resources for users encountering difficulties.	A support section must provide FAQs, contact support, and tutorials for common issues.	2	3	6

Abuse Case name --> Security scenario name | v	Create Fake Account	Add Fake Class	Unauthorized Grade	Denial of Service	Delete Data
System thwarts attack	X	X	X	X	X
System thwarts attack but does not record or report attack	X	X	X	X	X
Attacker adds illigitamate data to system	X	X			
Attacker changes data illigitamately to system					
Attacker removes data illigitamately from the system					X
Attacker denies service for other users on the system				X	
Instruction: Place an X in cells to mark where a security scenario traces to an abuse case					
Legend					
X = Basic flow					
X = Alternate flow					
X = Exception flow					