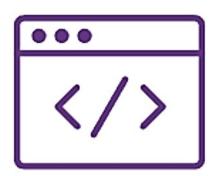


API Documentation Group 15



JAVA CAN'T SEE SHARP

Front to Back, We're on Track

Deliverable Two: Back-End

(CMPG323)

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HMS T&L System (FX)

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<< NOTE: SWAGGER SNAPSHOTS INCLUDED AT THE END OF THIS DOCUMENT>>

API Documentation

a description of each endpoint, including parameters, request/response examples, and possible error responses.

Auth

Authentication related endpoints

POST/auth/register Register a new user

Description:	Registers a new user to the system, providing basic account information.
Role based access:	Admins only
Parameters:	"UserNumber": 41425626, "Password": "securepassword123", "FirstName": "Barry", "LastName": "Leew", "Email": "41425626@mynwu.ac.za", "CourseID": 1, "UserRole": "Student"
Request/response examples:	Code 201 - User successfully registered
Possible error responses:	Code 400 - Invalid UserNumber Code 500 - Error registering user

POST/auth/login Log in a user

Description:	Authenticates a user by checking their UserNumber (student number) and password, issuing an access token if successful.
Role based access:	No restrictions
Parameters:	"UserNumber": 41425626, "Password": "0123456789"
Request/response examples:	Code 201 - Access token successfully issued
Possible error responses:	Code 401 - Invalid credentials Code 500 - Error logging in

POST / auth/logout Log out a user

Description:	Logs the user out of the system, invalidating the current session.
Role based access:	No restrictions
Parameters:	No Parameters
Request/response examples:	Code 401 - User successfully logged out



Possible error	Code 500
responses:	

Assignments

POST / assignments Create a new assignment

Description:	Creates a new assignment for a specific module with title, instructions, and due date.
Role based access:	Lecture and Admin
Parameters:	"title": "string", "instructions": "string", "dueDate": "2024-09-27T14:37:52.552Z", "ModuleID": 0
Request/response examples:	Code 201 - Assignment created successfully
Possible error responses:	Code 400 - Bad request, invalid data Code 500 - Error creating assignment

GET/assignments Retrieve a list of all assignments

Description:	Retrieves a list of all assignments created in the system.
Role based access:	Admin
Parameters:	No Parameters
Request/response examples:	Code 200 - A list of assignments
Possible error responses:	500 Error retrieving assignments

GET/assignments/module/{ModuleID} Get all assignments for a specific module

Description:	Retrieves a list of assignments for a specific module by its ID.
Role based access:	Admin, Lecturer and Student
Parameters:	ModuleID
Request/response examples:	Code 200 - A list of assignments for a specific module
Possible error responses:	Code 404 - No assignments found for the given module Code 500 - Error retrieving assignments

GET/assignments/{id}Get details of a specific assignment



Description:	Fetches the details of a specific assignment using its ID.
Role based access:	Admin, Lecturer and Student
Parameters:	AssignmentID
Request/response examples:	Code 200 - Assignment details
Possible error responses:	Code 404 - Assignment not found Code 500 - Error retrieving assignment

PUT/assignments/{id}Update assignment information

Description:	Updates the details of an assignment, such as title or due date, by its ID.
Role based access:	Admin Only
Parameters:	AssignmentID
Request/response examples:	Code 200 - Assignment updated successfully
Possible error responses:	Code 400 - Bad request, invalid data Code 500 - Error updating assignment

DELETE/assignments/{id} Delete an assignment

Description:	Deletes an assignment from the system using its ID.
Role based access:	Admin Only
Parameters:	AssignmentID
Request/response examples:	Code 200 - Assignment deleted successfully
Possible error responses:	Code 500 - Error deleting assignment

Courses

GET / courses Retrieve a list of all courses

Description:	Retrieves a list of all courses available in the system.
Role based access:	Admin
Parameters:	No Parameters
Request/response examples:	Code 200 - A list of courses



responses:		Code 500 - Error retrieving courses
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POST / courses Create a new course

Description:	Creates a new course with details such as course code, name, and duration.
Role based access:	Admin Only
Parameters:	"courseCode": "string", "courseName": "string", "duration": 3
Request/response examples:	Code 201 - Course created successfully
Possible error responses:	Code 500 - Error creating course

GET/courses/{id}Get details of a specific course

Description:	Retrieves details of a specific course by its ID.
Role based access:	Admin
Parameters:	CourseID
Request/response examples:	Code 200 - Course details
Possible error responses:	Code 404 - Course not found Code 500 - Error retrieving course

PUT/courses/{id}Update a course

Description:	Updates the information of a specific course, such as course name or duration.
Role based access:	Admin Only
Parameters:	CourseID
Request/response examples:	Code 200 - Course updated successfully
Possible error responses:	Code 500 - Error updating course

DELETE/courses/{id}Delete a course



Description:	Deletes a course from the system by its ID.
Role based access:	Admin Only
Parameters:	CourseID
Request/response examples:	Code 200 - Course deleted successfully
Possible error responses:	Code 500 - Error deleting course

Enrollments

POST / enrollments Enrol a student in a module

Description:	Enrols a student in a specific module by providing student and module IDs.
Role based access:	Admin Only
Parameters:	"studentId": 0, "moduleId": 0
Request/response examples:	Code 201 - Student enrolled successfully
Possible error responses:	Code 500 - Error enrolling student

GET/enrollments Retrieve a list of all enrollments

Description:	Retrieves a list of all enrollments in the system.
Role based access:	Admin
Parameters:	No Parameters
Request/response examples:	Code 200 - A list of enrollments
Possible error responses:	Code 500 - Error retrieving enrollments

DELETE / enrollments / { id} Remove a student from a module

Description:	Removes a student's enrollment from a module using the enrollment ID.
Role based access:	Admin Only
Parameters:	EnrollmentID
Request/response examples:	Code 200 - Enrollment removed successfully



Possible error	Code 500 - Error removing enrollment
responses:	

Feedback

POST / feedbacks Provide feedback on a submission

Description:	Provides feedback on a student's submission by specifying the submission ID, feedback text, and mark.
Role based access:	Admin and Lecturer
Parameters:	"submissionId": 0, "lectureId": 0, "feedbackText": "string", "mark": 0
Request/response examples:	Code 201 - Feedback provided successfully
Possible error responses:	Code 500 - Error providing feedback

GET / feedbacks Retrieve a list of all feedback

Description:	Retrieves a list of all feedback entries.
Role based access:	Admins
Parameters:	No Parameters
Request/response examples:	Code 200 - A list of feedback
Possible error responses:	Code 500 - Error retrieving feedback

GET/feedbacks/{id} Get details of specific feedback

Description:	Fetches details of a specific feedback entry by its ID.
Role based access:	Admin, Lecturer and Student
Parameters:	FeedbackID
Request/response examples:	Code 200 - Feedback details
Possible error responses:	Code 404 - Feedback not found Code 500 - Error retrieving feedback

PUT/feedbacks/{id} Update specific feedback



Description:	Updates the details of a specific feedback, such as feedback text or mark.
Role based access:	Admin and Lecturer
Parameters:	FeedbackID
Request/response examples:	Code 200 - Feedback updated successfully
Possible error responses:	Code 404 - Feedback not found Code 500 - Error updating feedback

DELETE / feedbacks / {id} Delete specific feedback

Description:	Deletes a specific feedback entry by its ID.
Role based access:	Admin and Lecturer
Parameters:	FeedbackID
Request/response examples:	Code 200 - Feedback deleted successfully
Possible error responses:	Code 404 - Feedback not found Code 500 - Error deleting feedback

GET/feedbacks/download/csv Download feedback data as CSV

Description:	Downloads feedback data in CSV format.
Role based access:	Admin and Lecturer
Parameters:	No Parameters
Request/response examples:	Code 200 - CSV file of feedback data
Possible error responses:	Code 404 - No feedback data found Code 500 - Error generating feedback CSV

Modules on Courses

POST / module - on - course Add a module to a course

Description:	Adds a specific module to a course.
Role based access:	Admin Only
Parameters:	"courseld": 0, "moduleld": 0
Request/response examples:	Code 201 - Module added to course successfully



Possible error	Code 500 - Error adding module to course
responses:	

DELETE/module-on-course/{id} Remove a module from a course

Description:	Removes a module from a course by its relationship ID.
Role based access:	Admin Only
Parameters:	The ID of the module on course relationship
Request/response examples:	Code 200 - Module removed from course successfully
Possible error responses:	Code 404 - Module not found Code 500 - Error removing module from course

Modules

POST/modules Create a new module

Description:	Creates a new module in the Human Movement Science Faculty.
Role based access:	Admins only
Parameters:	"moduleCode": "string", "moduleName": "string", "moduleDescription": "string", "lecturerId": 0
Request/response examples:	Code 201 - Module created successfully
Possible error responses:	Code 500 - Error creating module

GET/modules Retrieve a list of all modules

Description:	Retrieves a list of all modules in the system.
Role based access:	Admin Only
Parameters:	No Parameters
Request/response examples:	Code 200 - A list of modules
Possible error responses:	Code 500 - Error retrieving modules

GET/modules/{id}Get details of a specific module



Description:	Fetches the details of a specific module by its ID.
Role based access:	Admin, Lecturer and Student
Parameters:	ModuleID
Request/response examples:	Code 200 - Module details
Possible error responses:	Code 404 - Module not found Code 500 - Error retrieving module

PUT/modules/{id} Update module information

Description:	Updates the information of a specific module.
Role based access:	Admin only
Parameters:	ModuleID
Request/response examples:	Code 200 - Module updated successfully
Possible error responses:	Code 500 - Error updating module

DELETE/modules/{id} Delete a module

Description:	Deletes a specific module by its ID.
Role based access:	Admin only
Parameters:	ModuleID
Request/response examples:	Code 200 - Module deleted successfully
Possible error responses:	Code 500 - Error deleting module

Submissions

POST/submissions Submit an assignment

Description:	Submits an assignment with details such as submission text and status and a link (foreign key reference) to their respective video submission.
Role based access:	Student and Admin
Parameters:	"studentId": 0, "assignmentId": 0, "submissionText": "string", "videoId": 0, "status": "Submitted"



Request/response examples:	Code 201 - Assignment submitted successfully
Possible error responses:	Code 500 - Error submitting assignment

GET/submissions Retrieve a list of all submissions

Description:	Retrieves a list of all assignment submissions.
Role based access:	Lecturer and Admin
Parameters:	No Parameters
Request/response examples:	Code 200 - A list of submissions
Possible error responses:	Code 500 - Error retrieving submissions

GET/submissions/{id} Get details of a specific submission

Description:	Fetches the details of a specific submission by its ID.
Role based access:	Lecturer and Admin
Parameters:	SubmissionID
Request/response examples:	Code 200 - Submission details
Possible error responses:	Code 404 - Submission not found Code 500 - Error retrieving submissions

PUT/submissions/{id} Update submission status

Description:	Updates the status of a specific submission.
Role based access:	Lecturer and Admin
Parameters:	SubmissionID "status": "string"
Request/response examples:	Code 200 - Submission status updated successfully
Possible error responses:	Code 500 - Error updating submission status

DELETE/submissions/{id}Delete a submission



Description:	Deletes a specific submission by its ID.
Role based access:	Student and Admin
Parameters:	SubmissionID
Request/response examples:	Code 200 - Submission deleted successfully
Possible error responses:	Code 500 - Error deleting submission

Users

GET/users Get a list of all users

Description:	Retrieves a list of all users in the system.
Role based access:	Admins only
Parameters:	No Parameters
Request/response examples:	Code 200 - A list of users
Possible error responses:	Code 500 - Error retrieving users Code 403 - Access denied

GET/users/{id} Get details of a specific user

Description:	Fetches details of a specific user by their ID.
Role based access:	Admins only
Parameters:	UserID
Request/response examples:	Code 200 - User Details
Possible error responses:	Code 403 - Access denied Code 404 - User not found Code 500 - Error retrieving user

PUT/users/{id} Update user details

Description:	Updates the details of a specific user, such as email or role.
Role based access:	Admins only
Parameters:	"Username": "string", "FirstName": "string", "LastName": "string", "Email": "string", "UserRole": "string",



	"CourseID": 0
Request/response examples:	Code 200 - User updated successfully
Possible error responses:	Code 403 - Access denied Code 500 - Error updating user

DELETE / users / { id} Delete a user

Description:	Deletes a user from the system by their ID.
Role based access:	Admins only
Parameters:	UserID
Request/response examples:	Code 200 - User deleted successfully
Possible error responses:	Code 403 - Access denied Code 500 - Error deleting user

Utility

GET/api/files/download/{id} Download a video file using its ID

Description:	Initiates a download for a video file using its ID.
Role based access:	Lecturer and Admin
Parameters:	VideoID
Request/response examples:	Code 200 - File download initiated
Possible error responses:	Code 404 - Video not found Code 500 - Error downloading video

GET/api/files/stream/{id} Stream a video file using its ID

Description:	Streams a video file using its ID.
Role based access:	Lecturer and Admin
Parameters:	VideoID
Request/response examples:	Code 200 - File streaming initiated
Possible error responses:	Code 404 - Video not found Code 500 - Error streaming video



Videos

POST / videos Upload a video

Description:	Uploads, converts and compresses a new video file to the database and file management system.
Role based access:	Admin and Student
Parameters:	Video File (binary) VideoTitle
Request/response examples:	Code 201 - Video uploaded successfully
Possible error responses:	Code 500 - Server error

GET/videos Retrieve all videos

Description:	Retrieves a list of all uploaded videos.
Role based access:	Admin and Lecturer
Parameters:	No Parameters
Request/response examples:	Code 200
Possible error responses:	Code 500 - Server error

GET/videos/{id} Get details of a specific video

Description:	Fetches details of a specific video by its ID.
Role based access:	Admin , Student and Lecturer
Parameters:	VideoID
Request/response examples:	Code 200 - Video retrieved successfully
Possible error responses:	Code 404 - Video not found Code 500 - Server error

DELETE/videos/{id} Delete a video

Description:	Deletes a video file from the database and from the file management system by its ID.
Role based access:	Admin and Student
Parameters:	VideoID



Request/response examples:	Code 200 - Video deleted successfully
Possible error responses:	Code 404 - Video not found Code 500 - Server error