ADT Coo	ifications								
API Spec	incanons								
	LOGIN								
Name	Name	Name	Name	Response Code	Response	Remark			
/	Root service, show first web page (index page)	GET	-	200	file: "index.html"	The first page is Index page with role selection			
/login	Username, password, and role input	POST	{"username": "user123", "password": "pass123", "role": "student"}	200	JSON: {"message": "Login successful!", "user": {"username": "user123", "id": "s123", "role": "student"}}	Successful login			
				400	JSON: {"error": "All fields are required."}	Missing required fields			
				401	JSON: {"error": "Invalid username or password."}	Incorrect credentials			
				500	JSON: {"error": "Database error."}	Server/Database failure			
			REGISTER						
Name	Description	Method	Request	Response Code	Response	Remark			
/register	Create an account	POST	{"username":"user123", "password":"pass123", "role":"student", "studentId":"s123"}	201	JSON: {"message": "Student registration successful!"}	Successful student registration			
			{"username":"user123", "password":"pass123", "role":"lecturer"}	201	JSON: {"message": "Lecturer registration successful!"}	Successful lecturer registration			
			{"username":"user123", "password":"pass123", "role":"staff"}	201	JSON: {"message": "Staff registration successful!"}	Successful staff registration			

			{"username":"", "password":"", "role":""}	400	JSON: {"error": "All fields are required."}	Missing required fields
			{"username":"user123", "password":"pass123", "role":"student"} (No Student ID)	400	JSON: {"error": "Student ID is required for student registration."}	Student ID missing
			{"username":"user123", "password":"pass123", "role":"student", "studentId":"s123"}	400	JSON: {"error": "Student ID already exists."}	Duplicate Student ID
			{"username":"user123", "password":"pass123", "role":"invalidRole"}	400	JSON: {"error": "Invalid role selected."}	Invalid role entry
			Any request with database issues	500	JSON: {"error": "Error registering student."}	Database error on student
			Any request with database issues	500	JSON: {"error": "Error registering lecturer."}	Database error on lecturer
			Any request with database issues	500	JSON: {"error": "Error registering staff."}	Database error on staff
			Categories			
Name	Description	Method	Request	Response Code	Response	Remark
Name /add- category	Description Add category	Method	J		Response JSON: {"message": "Category added successfully"}	Remark Successful category
/add-	·		Request {"category_id":"6", "category_name":" Laptop", "description":" For the student's	Response Code	JSON: {"message": "Category added	
/add-	·		Request {"category_id":"6", "category_name":" Laptop", "description":" For the student's presentation purpose"} {"category_id":"6", "category_name":" Laptop", "description":" For the student's	Response Code 201	JSON: {"message": "Category added successfully"} JSON: {"error": "All	Successful category id, name and description are not

			{"category_id":"1", "category_name":" Headsets", "description":"visual class purpose"} {"category_id":"1", "category_name":" Headsets", "description":"visual class purpose"}	400 500	JSON: {"error": "All fields are required!"} JSON: {"error": "Database is not connected"}	id, name and description are not filled
			{"category_id":"1", "category_name":" Headsets", "description":"visual class purpose"}	404	JSON: {"error": "Category is not found"}	Category is not there in database
/admin/delete -category/: category_id	DELTEING THE EXISITING CATEGORY	DELETE	{"category_id":"3"}	201	JSON: {"message": "Cateogory is successfully deleted"}	Category is deleted from database
			{"category_id":"3"}	404	JSON: {"error": "Category is not found"}	Category is not there in database
			{"category_id":"3"}	500	JSON: {"error": "Database error"}	Database error
/get-all- categories	Get list of category	GET		201	Category return	list return from database
				404	JSON:{"error": "Category list not found!"}	no return
				500	JSON:{"error":" Database error"}	Database error
			Assets			
Name	Description	Method	Request	Response Code	Response	Remark
/add-assets	Adding Asset to the database	POST	"name": "Laptop", "description": "A high- performance laptop for project work", "image_path": "/images/laptop.png", "status": "available", "category_id": 5, "created_by": 2 }	201	JSON:{"message": "Asset added successfully!"}	Asset added

			{ "name": "Laptop", "description": "A high- performance laptop for project work", "image_path": "/images/laptop.png", "status": "available", "category_id": 5, "created_by": 2 }	400	JSON:{"error": "All required fields!"}	values missed out	
			{ "name": "Laptop", "description": "A high- performance laptop for project work", "image_path": "/images/laptop.png", "status": "available", "category_id": 5, "created_by": 2 }	500	JSON:{"error": "Database error!"}	Database error	
/edit-asset/: asset_id	Editing Asset to the database	PUT	{"asset_id": 3, "name": "Laptop", "description": "A high- performance laptop for project work", "image_path": "/images/laptop.png", "status": "available", "category_id": 5, "created_by": 2 }	201	JSON:{"message": "Asset edited successfully!"}	Asset added	
_			{"asset_id": 3, "name": "Laptop", "description": "A high- performance laptop for project work", "image_path": "/images/laptop.png", "status": "available", "category_id": 5, "created_by": 2 }	404	JSON:{"error": "Asset not found!"}	Asset ID do not exist	

			{"asset_id": 3, "name": "Laptop", "description": "A high- performance laptop for project work", "image_path": "/images/laptop.png", "status": "available", "category_id": 5, "created_by": 2 }	500	JSON:{"error": "Database error!"}	Database error	
/disable- asset/: asset_id	Disabling Asset to the database	PUT	{ "asset_id": 11 }	201	JSON:{"message": "Asset disabled successfully!"}	Disabled assets	
			"asset_id": 11 }	404	JSON:{"error": "Asset not found!"}	Asset ID do not exist	
			{ "asset_id": 11 }	500	JSON:{"error": "Database error!"}	Database error	
/disable- asset/: asset_id	Disabling Asset to the database	POST	{ "student_id": 101, "asset_id": 202, "borrow_date": "2025- 04-01", "return_date": "2025- 04-15", "student_reason": "For group project" }	201	JSON:{"message": "Asset request successfully!"}	Request assets	
			{ "student_id": 101, "asset_id": 202, "borrow_date": "2025- 04-01", "return_date": "2025- 04-15", "student_reason": "For group project" }	400	JSON:{"error": "Fields needed to filled."}	Fields required	

			{ "student_id": 101, "asset_id": 202, "borrow_date": "2025- 04-01", "return_date": "2025- 04-15", "student_reason": "For group project" }	400	JSON:{"error": "Borrow date must be today!"}	Borrow date required	
/approve-or- disapprove	Approve or disapproving Asset to the database (LECTURER)	PUT	{ "request_id": 1, "status": "approved", "lecturer_id": 3, "reason": "Approved for project work" }	400	JSON:{"error": "ID must be lecturer, Invalid status!"}	Must be lecturer and must have a status	
			{ "request_id": 1, "status": "approved", "lecturer_id": 3, "reason": "Approved for project work" }	500	JSON:{"error": "Database error!"}	Database error	
/dashboard/d		_			Barabase error. y		
ata	Dashboard display	Get		200	JSON:{"error":	Result show in UI	
				500	"Database error!"}	Database error	
/api/history	History	Get	{"userId": 1, "role" : "student"}	200		History show in UI	
			{"userId": 1, "role" : "student"}	500	JSON:{"error": "Database error!"}	Database error	
			{"userId": 1, "role" : "student"}	400	JSON:{"error": "Missing user ID and role!"}	Error login	
			{"userId": 1, "role" : "student"}	500	JSON:{"error": "Database error!"}	Database error	
/api/return- asset	Asset Return	POST	{"assetId": 1, "returnedBy" : "3"}	200	JSON:{"message": "Asset return successfully!"}	Assets show in UI	
			{"assetId": 1, "returnedBy" : "3"}	400	JSON:{"error": "Missing user ID and role!"}	Error login	
			{"assetId": 1, "returnedBy" : "3"}	500	JSON:{"error": "Database error!"}	Database error	
/api/borrowe d-asset	Returning the borrowed asset for the staff	Get		200			

				500	JSON:{"error": "Database error!"}	Database error	
/ami/mamusat	Domination mass	Get		200	Dalabase error: }	Dalabase error	
/api/request	Requesting asset	Ger		200			
				500	JSON:{"error": "Database error!"}	Database error	
/api/request	Requesting asset	POST	{ "userId": 1, "aID": 4, "brDate": "2025-03-31", "rtDate": "2025-04-15", "reason": "For project work" }	200	JSON:{"message": "Successfully request the assets!"}	Successfully request the assets	
			{ "userId": 1, "aID": 4, "brDate": "2025-03-31", "rtDate": "2025-04-15", "reason": "For project work" }	400	JSON:{"error": "All fields are required!"}	All fields are required	
			{ "userId": 1, "aID": 4, "brDate": "2025-03-31", "rtDate": "2025-04-15", "reason": "For project work" }		JSON:{"error":		
			'	500	"Database error!"}	Database error	