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## Vidya, ardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

		AY: 2025-2	26
	TE-AIDS	Semester:	I
Course Code:	CSC502	Course Name:	WC

Name of Student:	Dinya	P. Davane	
Roll No. :	14	Navane	
Assignment No .:	5	A .	
Title of Assignment:	NodeJS	applications using express	
Date of Submission:			
Date of Correction:			

## **Evaluation**

Performance Indicator	Max. Marks	Marks Obtained
Completeness	5	5
Demonstrated Knowledge	3	3
Legibility	2	2
Total	10	10

Performance Indicator	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations (BE)
Completeness	5	3-4	.1-2
Demonstrated Knowledge Legibility	3	2	1
Legibility	2	1	0

## Checked by

Name of Faculty

-ature

: Braiat : 6/10/25



-	WC Assignment 5 DATE:
A1	Cocale a simple of
F-	Read to display a list of theme fold worm
	Read to display a list of thems felch from a server.
Ans	Descoule the sleps involved and pocovide code enippets
	Steps involved: - I Schip Express Backend
	it create a folder express - react-app and inside
	it create a folder server
	d server
ME	h Pha
	npm init-y
	3. Grante express cors
	saure Sences is
	cors - require ("corc"):
	express ().
	app. Use (cors ()).
	const items = [
	fid: 1, name: "Apple"};
	fid: 2, name: "Banana" 4;
-	did; 3, name: "Orange"3,
3 /	7-
	app. get ("lapi litems", (reg, res) => {
	res. ison (items);
	3):
	eonst PORT = 5000:
	app. listen (PORT, () = console. log ('Server running -
	app. listen (PORT, () > console. log ('Server running - on http://localhost: \${PORT}'));
	4. Rim sovier
	node serverijs
	J when the same and the same an

DATE: Il Schup Read Frontand 1. In the scoot folder, recent react app: npx create-read-app client ed client npm start 2. Inside deent/suc/App.js fetch from Express import React, Euse Effect, UseState & from "read"; const [items, set Items] = useState([]); use Effect (() ⇒ { fetch ("http://hocalhost:5000/apilitems") · then ((res > res. json()) ·then ((data) => set Items (data)); 3;[]); return ( Zdiv style = {{ padding: "20px" }}> fitems map (litem) => ( </p 1)7 </ali> export default App; 3. Start the React frontend with npm start.

FOR EDUCATIONAL USE

149.2.	Apply Exposes Renter to organize norde handling in
	a Node is application by realing a modular structure
F	Implement a simple example to demonstate how
	express honter improves rode organization.
Ans	I] Project solup:
	medie express-vouler example
4	ed express-router example
	nem init -4
	npm install express
7	II.] vuate Modular Roules
	eserver. js (Main enloug file) const express = require ("express");
	const app = express(); const itemRoutes = require ("./routes/items");
	app. use ("/api/items, itemRoutes); const PORT = 5000;
	app. listen (PORT, 1) > console log ('Server running on
/ 1 4 L	http://localhost:\${PORT3'));
<u> </u>	
16	o routes/item.js
1 9	const express = require ("express");
	const router = express. Router();
	let items = [
	sid; 1, name: "Apple"3,
	fid: 2, name: "Banana"};
	];
	router, get ("/, (reg 1 res) = (
	router, get ("/", (reg 1 res) => ( res. json (items);
1	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
·	router. post ("/:id", freq, res) = {
	const items = items.find (i=>i.id = = = parseInt (reg. pare
	·(d));
The state of the s	FOR EDUCATIONAL USE
WAY STATE	

```
if (litem) return res status (404). json ({messag
  "Item not found" 3);
  res. ison (item);
  router. post ("1", express. ison (), (req , res) > {
  ionst new Item = {
  id: items length +1, name: req. body. name:
  Items. push (new Item);
 resistatus (201) json (new Item);
 module exports = router;
 III Run Sorrer
node server.js
[V] Jest Routes
·GET http://localhost: 5000/apilitems -> 11st of items
·GET http://localhost: 5000/api/ items/1- fid: 1, name
: "Apple"3
· POST http://localhost: 5000/api/items with JSON
body ("name": "Orange") -> adds new item
```

you are developing a login system in an Exporess DATE: to store their usernane in a cooker that should only be accessible ma HTTP (not javacoupt) and should supere after I monute revite the axpress houte that sets this cookie and another soute that reads and displays the username from the cookie ms const express = require ("express"); const cookie Parser = require ("cookie - parser"). const app = express(); appiuse (express. jon ()); app. use (cookie Parser ()). app. post ("/login", (req , res) => \$ const Eusername 3 = reg. body; res. cooki e ("username", username, 1 htlyonly: true; maxAge: 60 ± 1000, 3); res. send ("Login successful, cookir set!"); app get ("/profile"; (req, res) > { Const username = req. wokies username; if (username) { res. Send ('Welcome back, & fusername 31'); } else { res. send ("No user logged in or cookie expired."); app. listen (5000, () = console. log ("Server running on http://localhost:5000"));

	DATE:	
J.3.	nece a list of products Apply your understanding	
	an HTTP GET recovert at Amoduste and returned	
New Year	soule soule show the code snippet for the	
ત્રાહ		is Obl
	const express - require ("express");	5_
0	constaff " express ():	3
	app.get ("/products" (regires) > {	2
	fidit name: " a sta"	_
	fid: 1, name: "Laptor", price: 500003,  fid: 2, name: "Phone", price: 200003.	_
	fid: 3. name: Headphones, price: 3000}.	-,["
	1:	-
	res.json(products);	-ah
	app listen (5000, 1) = console. log ('Server running on	_
	http://localhost:5000'1);	<u>e</u> _
		. 4
)	The state of the s	

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