Exercise 11

Wish Wall

Please create a "wish wall (許願牆)" web application where users can share their wishes. This exercise helps you understand the basics of client-server communication.

Backend:

- A partial Node.js code is provided.
- Please Implement GET /api/wishes:
 - Return all wishes
 - Status code: 200
- Please Implement POST /api/wishes:
 - Accept: { name, message }
 - Add timestamp
 - Status code: 201 for success, 400 for errors

Frontend:

An HTML file (index.html) is provided. Please use this provided frontend code to test your API

許願牆

許個願望			
您的名字			
願望內容			
送出願望			
熊貓			
Carroll 加入Team Ta	iwan		
2024/12/3 上午8:52:56			
大谷			
20勝、50轟、50盜			
2024/12/3 上午8:52:19			

Testing Steps:

- Save revised backend code as wishes.js
- Run backend: node wishes.js
- Open index.html in browser
- Test both posting and viewing wishes

Requirements:

- Backend successfully handles GET requests
- Backend successfully handles POST requests
- Frontend can display wishes
- Frontend can submit new wishes
- Timestamps are displayed correctly

Submission:

Please submit "wishes.js" only.

Hints:

- Suggest testing your backend first using Postman.
- Please check browser console (F12) if any error occurs.

Note:

- Why do we need CORS? (This feature is provided)
 - CORS (Cross-Origin Resource Sharing) is a security feature implemented by web browsers. It prevents web pages from making requests to a different domain (網域) than the one that served the web page. In our assignment:
 - Frontend: Running from a file (file://)
 - Backend: Running on http://localhost:3000
 - Without CORS headers, the browser would block these cross-origin requests
- Why do we need OPTIONS handling? (This feature is provided)
 - When frontend makes certain types of HTTP requests (like POST with JSON), browsers automatically send an OPTIONS request first. This "preflight" request checks if the server allows: