

Assessment: Build a Web App using Express.js, MySQL & Bootstrap

Objective (50 Marks):

Create a full-stack Node.js app that:

- Connects to a MySQL database
 - Performs `INSERT` and `SELECT` operations
 - Displays the data using Bootstrap frontend
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Instructions:

1. Setup (10 Marks)

- Initialize a Node.js project with `npm init`
 - Install the required packages: `express mysql2 ejs`
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2. MySQL Table Creation (10 Marks)

- Create a MySQL database `user_db`
- Create a `users` table with columns: `id`, `name`, and `email`

3. Backend with Express (20 Marks)

- Set up an Express server
 - Create two routes:
 - `GET /` → Fetch all users and display them
 - `POST /add` → Add a new user
 - Use `express.json()` and `express.urlencoded()` to handle request bodies
 - Connect to MySQL using `mysql2`
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4. Frontend with EJS + Bootstrap (10 Marks)

- Create a form to add new users (name + email)
 - Display users in a Bootstrap-styled table using EJS
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★ Bonus (Optional – 5 Marks)

- Add a route `GET /users/:id` to display a single user's details.
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Submission Format:

- Source code with `app.js`, `db.js`, `views/index.ejs`
- `create_table.sql` (or SQL commands to create the table)
- Screenshots of the app running with the user list displayed