

Nodejs Lab 1

1. Install Node.js

- Download and install Node.js on your machine.

Verify the installation by running:

```
node -v
```

```
npm -v
```

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2. Create CRUD Operations for Posts

- Build a simple Node.js application.
- Implement the following operations for a `posts` resource:
 - GET → Retrieve all posts
 - POST → Create a new post
 - PUT → Update an existing post
 - DELETE → Remove a post

3. Get a Single Post

- Implement an endpoint to retrieve one post by its ID.

4. Save Data to a File

- Use the built-in `fs` (File System) module.
- Store posts data in a file (e.g., `posts.json`).
- Ensure data is read from and written to the file correctly.

Bonus Questions (Optional)

1. Error Handling

- Handle cases where a post does not exist (e.g., invalid ID).
- Return appropriate HTTP status codes.

2. Validation

- Validate input data when creating or updating a post.
- Prevent empty or invalid fields from being saved.

3. Code Structure

- Organize your code into separate files (e.g., routes, controllers, data file).

4. Timestamps

- Add `createdAt` and `updatedAt` fields to each post.