

# Backend Developer Intern Assignment:

## Develop a Simple REST API

Develop a RESTful API that provides basic CRUD (Create, Read, Update, Delete) operations for managing users.

The API should have the following functionalities:

1. **Create a User** – Accepts name, email, and age, then stores them in a database.
2. **Retrieve All Users** – Returns a list of users.
3. **Retrieve a Single User** – Fetches a user by ID.
4. **Update a User** – Updates user details using an ID.
5. **Delete a User** – Removes a user from the database using an ID.

### Requirements

- Use a backend framework such as Node.js with Express, Django, or Flask.
- Store data in an in-memory array or use a lightweight database such as SQLite or MongoDB.
- API responses should be in JSON format.
- Implement proper error handling (e.g., invalid input, non-existent user).
- The code should be structured, clean, and well-commented.
- Include a README.md file that provides:
  - Setup instructions
  - API endpoints documentation
  - Sample requests/responses

### Submission Guidelines

Candidates must submit their completed assignments through the following Google Form: [🔗 \[Google Form Submission Link\]](#)

### Submission Instructions:

- Upload the project to GitHub (preferred) or submit a ZIP file containing the project folder.

- Enter the GitHub repository link or upload the ZIP file via the Google Form.
- Ensure that the project includes a README.md file with setup instructions and API documentation.
- Code should be well-documented and easy to understand.

### Evaluation Criteria

Criteria	Description
Functionality	The API should handle CRUD operations correctly.
Code Quality	The code should be structured, clean, and well-commented.
Error Handling	The API should handle errors properly with meaningful messages.
Security Considerations	Basic security practices such as input validation should be applied.
Adherence to Time Limit	The task should be completed within the specified timeframe.
README Quality	The README file should provide clear setup instructions and API documentation.

### Next Steps

Shortlisted candidates will be contacted for the next phase of the selection process.

For any queries, please reach out to **careers@zylentrix.net**.