

Hello API

A basic backend API that responds with a simple JSON message. This project uses **Node.js** and **Express.js** to expose a route that returns a greeting message.

Features

- **Single Route**: /sayHello that returns a JSON response.
- **Runs on Port 80** for easy accessibility.
- **Automated Deployment**: Deployed to a virtual machine using GitHub Actions.

Project Setup

Prerequisites

- [Node.js](<https://nodejs.org/en/>) (version 18.x or above)
- [GitHub Account](<https://github.com/>)
- Virtual Machine with **Ubuntu 20.04** or similar Linux distribution

Steps to Run Locally

Clone the repository:

```
git clone https://github.com/Akshat295/Assignment.git
cd Assignment
```

Install dependencies:

```
npm install
```

Run the server locally:

```
.....
```

```
node index.js
```

The API will be accessible at:

```
http://localhost:80/sayHello
```

It should return:

```
{ "message": "Hello User" }
```

Challenges faced :

During the development and deployment of this project, one significant challenge encountered was repeated SSH timeouts when trying to connect to the remote server. This issue caused delays in:

- Deploying updates to the server
- Running remote scripts or services
- Accessing logs and configuration files during debugging