



# GROUP 3: Expense Tracker API

# A Brief Project description

A robust, RESTful backend API built with **Node.js** and **Express.js**. This project was developed as part of the **BeTechified Backend Development Track** to master the fundamentals of backend engineering, including the Request-Response cycle, file system persistence, and CRUD operations.



# Features

- **Full CRUD Functionality:** Create, Read, Update, and Delete expenses.
- **Data Persistence:** Uses a JSON-based local storage system.
- **JSend Specification:** All API responses follow the JSend standard for consistent data delivery.
- **Input Parsing:** Built-in middleware for handling JSON payloads.
- **Environment Configuration:** Secure port management using `dotenv`.



# Tech Stack

- **Runtime:** Node.js
- **Framework:** Express.js
- **Data Format:** JSON
- **Development Tools:** Nodemon, Postman, Dotenv



# API Documentation

# 1. Get All Expenses

- **GET URL:** /api/v1/expenses

 The Get All expense gives a 200 response

## 2. Get Single Expense

- **GET URL:** /api/v1/expenses/:id

 The Get single expense gives a 200 response

### 3. Add New Expense

- **POST URL:** /api/v1/expenses

 The Add new gives a success response

```
{  
  "amount": 5000,  
  "date": "2026-02-06",  
  "category": "Education"  
}
```

## 4. Update Expense

- **PATCH URL:** /api/v1/expenses/ :id

 The chosen expense is updated

```
{  
  "amount": 3000,  
  "date": "2025-02-06",  
  "category": "Sandals"  
}
```

## 4. Delete Expense

- **DELETE URL:** /api/v1/expenses/:id

 No object was found as the delete method happened

```
{  
  "amount": 3000,  
  "date": "2025-02-06",  
  "category": "Sandals"  
}
```

# **THE END!!!**