**Swivl Company Backend Assignment**

## **Travel Diary Platform Backend Development**

### **Objective:**

Develop a backend API for a Travel Diary Platform, allowing users to create, read, update, and delete travel entries. The project should demonstrate skill in building a RESTful API using Node.js, Express.js, and a database, while integrating Object-Oriented Programming (OOP) concepts.

### **Technology Stack:**

* Node.js
* Express.js
* A database system of your choice with sample data

### **Models:**

* **User Class:** This class represents the users of the platform. It should include methods for user authentication, profile management, and interactions with travel diary entries.
* **Diary Entry Class:** This class represents a travel diary entry. Each entry should contain a title, description, date, location, and optional photos. Implement CRUD methods for these entries.

### **Database Implementation:**

* Select a suitable database and set up the necessary infrastructure.
* Design and implement schemas for User and Diary Entry models.
* Populate the database with sample data for demonstration purposes.

### **Functionality:**

* **User Class Functionality:**
  + Implement methods for user registration, login, and profile management.
  + Ensure validation and error handling are in place for all user-related activities.
  + Incorporate authentication methods like JWT for secure access.
* **Diary Entry Class Functionality:**
  + Develop methods for CRUD operations on diary entries.
  + Ensure validation and error handling for diary entry operations.
  + Use encapsulation principles for database interactions within class methods.
* **Additional Routes Functionality:**
  + Design routes for user registration, login, and profile management.
  + Implement routes for CRUD operations on diary entries.
  + Use middleware for authentication to secure the API.

### **Documentation:**

* Create a comprehensive README file with setup and usage instructions.
* Document API endpoints with request/response formats and examples.
* Highlight the application of OOP concepts and their advantages in the project.

### **Deployment and Submission:**

* Deploy the API to a cloud platform.
* Provide a link to the live API for testing and evaluation.

### **Evaluation Criteria:**

* **Functionality:** All API endpoints should be functional, enabling CRUD operations on Users and Diary Entries using class methods.
* **Code Quality:** Code should follow OOP principles, be clean, modular, and well-documented.
* **Deployment:** The API should be successfully deployed and functional in a live environment.  
    
    
  **Reference document :**  
  <https://satin-save-441.notion.site/Swivl-Travel-Diary-Platform-Backend-Assignment-Reference-2ff49dd74e82491ba00e18057aef92ad?pvs=74>  
    
  **Guidance video Recording:**   
  <https://drive.google.com/file/d/1RqTh9yGZfLc0BtNxzDixLvviqt_0tl1J/view?usp=sharing>  
    
  **Assignment Submission:**[**https://forms.ccbp.in/swivl\_assignment\_submission\_form**](https://forms.ccbp.in/swivl_assignment_submission_form)