# Solution Design Document: Reminder API

1. **Introduction:**

The Remind me later API is designed to provide functionality for users to set up reminders with messages. This API will handle incoming requests containing reminder data and store the information in a database. The API will be implemented using Django, a Python web framework.

2. **Requirements:**

Allow users to set up reminders with a message, date, and time.

Support reminder delivery via SMS and Email.

Store reminder information in a database.

3. **Solution Overview:**

The Remind me later API will consist of a single endpoint to handle POST requests containing reminder data. Upon receiving a valid request, the API will save the reminder information to the database.

4. **Endpoint Design:**

POST /api/reminders/

Description: Endpoint to create a new reminder.

Request Body:

json

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{

"date": "YYYY-MM-DD",

"time": "HH:MM:SS",

"message": "Your reminder message",

"reminder\_type": "SMS/Email"

}

Response:

201 Created: If the reminder is successfully created.

400 Bad Request: If the request body is invalid or missing required fields.

5. **Database Schema:**

The Remind me later API will use a simple database schema to store reminder information. The schema will include the following fields:

id: Primary key for the reminder.

date: Date of the reminder.

time: Time of the reminder.

message: Message content of the reminder.

reminder\_type: Type of reminder (SMS or Email).

created\_date: Timestamp indicating when the reminder was created.

6. **Technology Stack:**

Python: Programming language for backend development.

Django: Web framework for building APIs and web applications.

SQLite: Lightweight database management system for storing reminder data.

7. **Security Considerations:**

Input Validation: Validate incoming request data to prevent injection attacks and ensure data integrity.

8. **Future Enhancements:**

Support for additional reminder delivery methods (e.g., push notifications).

Integration with external services for message delivery (e.g., Twilio for SMS, SendGrid for Email).

User Authentication: Implement user authentication to allow users to manage their reminders securely.

9. **Conclusion:**

The Remind me later API provides a simple and efficient solution for users to set up reminders with messages. By leveraging Django and SQLite, the API ensures reliability and scalability while maintaining a low overhead. Future enhancements can further improve the functionality and usability of the Remind me later API.