# 1. Meeting Scheduler CLI - Report

This report explains the functionality and testing results of the Meeting Scheduler CLI. The application is designed to schedule meetings using natural language input, powered by Google's Gemini AI and integrated with Google Calendar for availability checks and event creation.

### **System Overview**

The system uses Gemini AI to parse meeting requests expressed in plain English, extracting details like title, duration, attendees, and description. It then integrates with Google Calendar API to check availability and create events automatically. The tool provides interactive CLI options to test connections and schedule meetings.

## **Key Features**

- Natural language parsing using Gemini AI
- Google Calendar integration with OAuth 2.0
- Suggests available time slots
- Creates Google Meet links automatically
- Sends invitations to attendees

#### **Test Results**

During testing, the environment variables were detected successfully, Gemini API connection was verified, and the Calendar service was initialized. The system reported that all components were ready.

```
PS C:\Users\Lokesh kumar\Documents\intern_assingment> python main.py test
Testing API connections...
Environment variables found
Gemini API connection successful
Calendar service initialized
All systems ready!
PS C:\Users\Lokesh kumar\Documents\intern_assingment>

C:\Users\Lokesh kumar\Documents\intern_assingment>
```

When a sample meeting request was entered, Gemini successfully parsed the input and generated a structured meeting request including title, duration, attendees, and description. Available time slots were displayed for the user to choose from. After selecting a slot, the meeting was created successfully, and a Google Calendar event was generated with a Google Meet link.

An error occurred during the busy time check for certain attendees, which returned a 'Not Found' response. This may be due to unavailable or invalid calendar access for external emails. However, despite the warning, the system proceeded to create the meeting successfully.

## **Observations**

- The CLI works end-to-end: parsing, availability check, slot suggestion, and meeting creation.
- External attendees may cause 'Not Found' errors if their calendars are not accessible.

- The system gracefully handles partial errors and still creates the event.
- The design allows easy extension and further improvements.

## **Conclusion**

The Meeting Scheduler CLI demonstrates a successful integration of Gemini AI with Google Calendar. It can understand natural language input, suggest time slots, and create calendar events with Meet links. With minor refinements in error handling for external users, the tool is production-ready for personal or organizational use.