**1. Email Management (MailAPI)**

**Flow**:

1. User connects their email account using **OAuth** authentication.
2. Backend fetches and categorizes emails (urgent, normal, informational) using the MailAPI.
3. Use **Cloud Natural Language API** to analyze the email content and extract key deliverables or action items.
4. Save tasks to Todoist or Trello using **Todoist API** or **Trello API**.
5. Draft responses using the **OpenAI API**.
6. Send response emails based on user confirmation.

**APIs Used**:

* MailAPI
* Cloud Natural Language API
* OpenAI API
* Todoist/Trello API

**2. Calendar and Meeting Management**

**Flow**:

1. Authenticate and fetch user calendar events via **Calendar API**.
2. Allow users to set up meetings through input prompts (time, participants).
3. Use the Calendar API to send invites and update events.
4. Connect with **Microsoft Teams API** (or any platform that allows notetaking).
5. Summarize meeting notes using the **OpenAI API** for clarity.

**APIs Used**:

* Calendar API
* OpenAI API

**3. Task and Voice Note Management**

**Flow**:

1. Accept voice inputs via the frontend and transcribe them using **Google Speech-to-Text API**.
2. Convert the transcriptions into tasks and organize them in **Todoist API** or **Trello API**.
3. Allow task prioritization based on urgency or deadlines.

**APIs Used**:

* Google Speech-to-Text API
* Todoist/Trello API

**4. OpenAI Assistant (AI Integration)**

**Flow**:

1. Provide conversational AI responses (text/voice) using the **OpenAI API**.
2. Assist with drafting emails, notes, and queries.
3. Use Google Text-to-Speech for voice responses.

**APIs Used**:

* OpenAI API
* Google Text-to-Speech API

**5. Media Search Capabilities**

**Flow**:

1. Allow users to search for images or videos using natural language.
2. Use **Google Custom Search API** for images.
3. Use **YouTube Data API** for video content.
4. Return search results to the Next.js frontend for display.

**APIs Used**:

* Google Custom Search API
* YouTube Data API

**6. Integration with Alexa**

**Flow**:

1. Connect Alexa Skills API to provide smart responses for user queries (e.g., weather, time, trivial questions).
2. Allow voice-triggered responses and follow-ups.

**APIs Used**:

* Alexa Skills API

**7. Task Reporting and Analytics**

**Flow**:

1. Fetch task data from Trello/Todoist.
2. Generate weekly/monthly task completion reports.
3. Send reports via email using the MailAPI.

**APIs Used**:

* Todoist API/Trello API
* MailAPI

**8. Collaboration Tools Integration**

**Flow**:

1. Integrate with **Slack API** for task updates and collaboration.
2. Allow users to send reminders or receive notifications via Slack.

**APIs Used**:

* Slack API