Activity Header • ~~**Learning Item**: Apply - Hands-on Learning - Configure and Test a Secure API Connection~~ • ~~**Aligned LO**: LO1: Apply secure authentication methods to integrate external AI services within a no-code platform.~~ • ~~**High-level Description**: Learners~~ You will perform the core job task of securely connecting an external AI service to a no-code app. This involves obtaining an API (Application Programming Interface) key, storing it safely in Bubble's secrets manager, and running a test call to confirm the connection is authenticated and functional. • **Estimated Time**: 10 minutes (2 minutes Setup, 6 minutes Core Activity, 2 minutes Documentation) • **Individual Work**: Solo completion, no collaboration required • **Prerequisites**: A Bubble.io account (free plan is sufficient) and access to the course-provided mock "AI Idea Generator" service documentation (including the API key). ~~**Detailed Activity Design**~~ **Scenario** **:** As a no-code developer on a fast-moving product team, you have been tasked with integrating a new "AI Idea Generator" into your Bubble application. Before you can build any user-facing features, your first	10 mins

critical step is to establish a secure and working connection. Your goal is to get the system authenticated and ready for development, ensuring that the API key is never exposed.

~~**Learning Objectives:**~~

- ~~Analyze the components of a secure API connection within a no-code platform.~~
- ~~Apply best practices for API key management by utilizing a platform's secrets manager.~~
- ~~Validate a successful API integration by initializing a test call and verifying the response.~~

Your Tasks (10 Minutes):

Setup (2 minutes): Log in to your Bubble.io account. Open the provided Bubble app template for this assignment. Review the one-page documentation for the mock "AI Idea Generator" service to locate your unique API key.

Core Activity Steps (6 minutes):

- **Store the API Key Securely**: Navigate to the "Settings" tab in your Bubble editor, go to the "API" section, and add a new private key. Name it AI_Idea_Generator_Key and paste the key from the documentation.
- **Configure the API Connector**: Go to the "Plugins" tab and open the API Connector. Create a new API call named Get Idea.

Configure the call with the correct Method (POST) and URL from the mock service documentation.

- **Add Authentication**: Add the required Content-Type and Authorization headers. For the Authorization header, use the Bearer prefix followed by the dynamic private key you just saved in the secrets manager.
- **Run a Test Call**: Add the simple JSON body provided in the mock service documentation and click "Initialize call.".

Documentation (2 minutes): Take a screenshot of the successful API call initialization window showing the returned data. In a brief reflection (2–3 sentences), describe why using the secrets manager is a critical step in this process.

Submission Output

: Upload a screenshot of the successful "Initialize call" window in Bubble. Submit a brief reflection (2–3 sentences) answering: "Why is storing the API key in the secrets manager, instead of pasting it directly into the API Connector's header, essential for application security?"

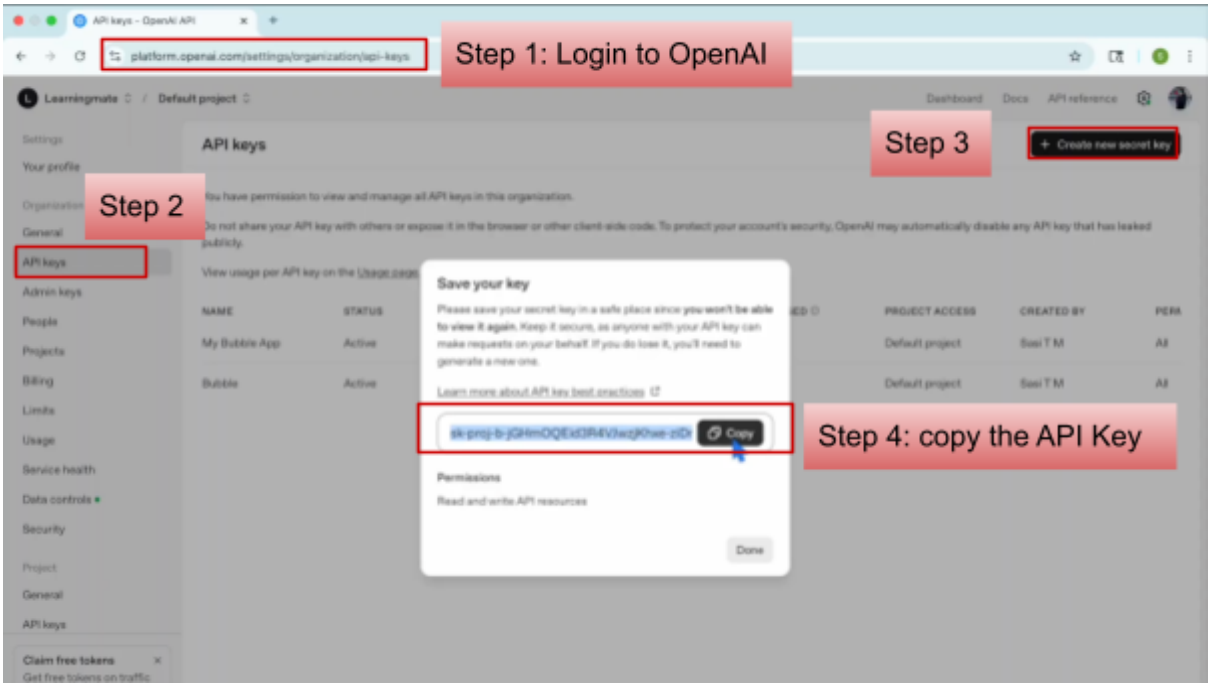
Self-Assessment Checklist:

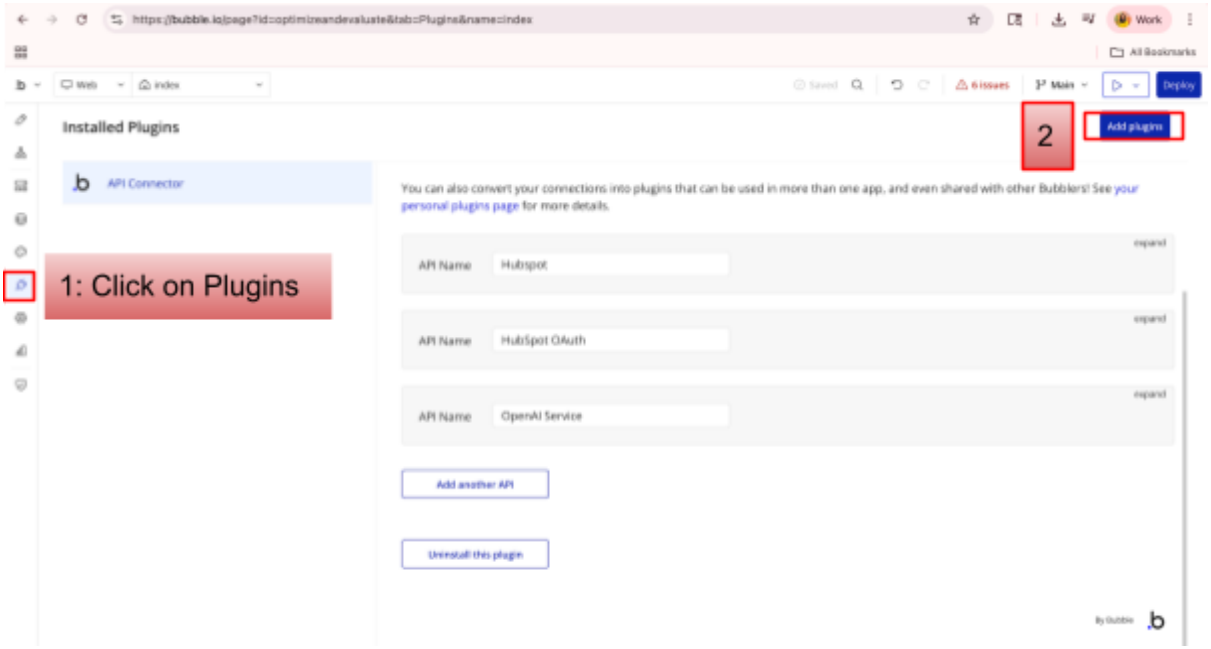
- An API key for the "AI Idea Generator' service has been added to Bubble's secrets manager.

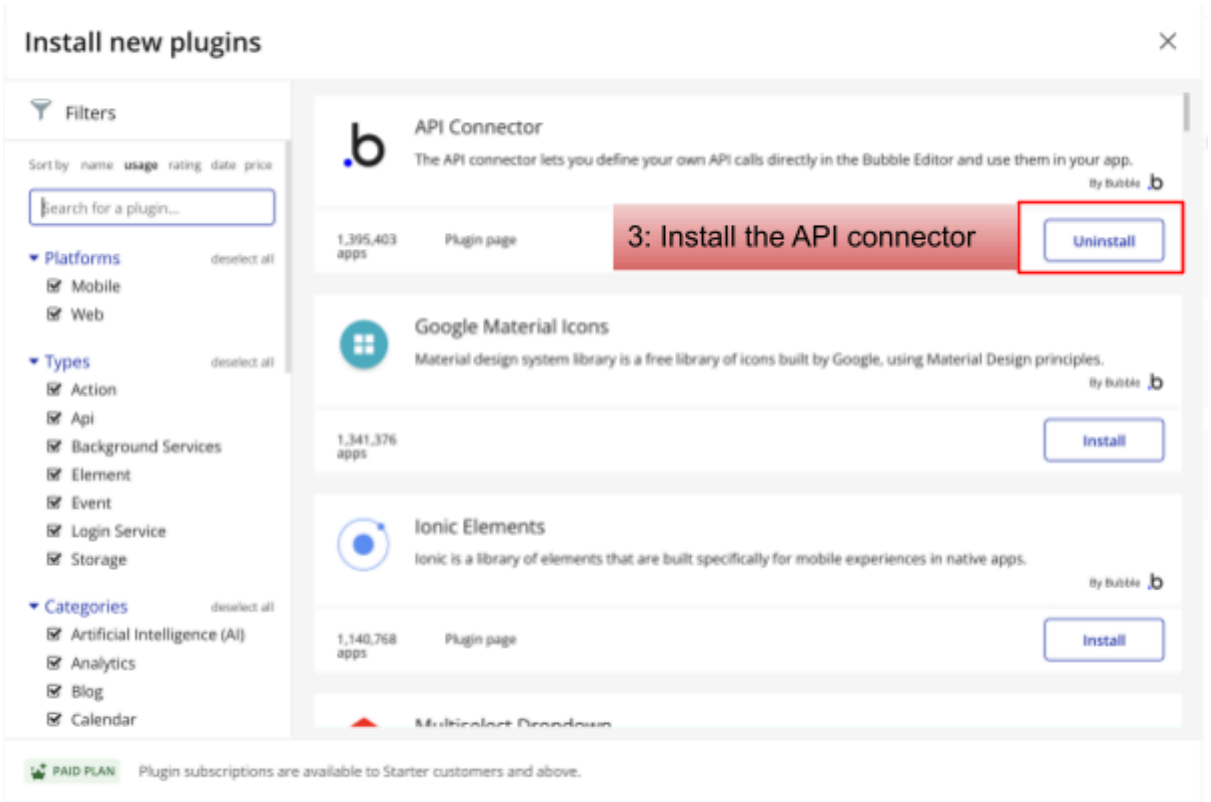
• The API Connector has been configured with the correct URL, method, and headers. • The "Authorization" header correctly uses the private key from the secrets manager. • The test call was successfully initialized, and a valid response was received. • A screenshot of the successful test call has been captured. • A brief reflection on the importance of the secrets manager is complete.	

Your Tasks (10 Minutes):

1. **Setup (2 minutes):** Log in to your Bubble.io account. Open the provided Bubble app template for this assignment. Review the one-page documentation for the mock "AI Idea Generator" service to locate your unique API key.







Core Activity Steps (6 minutes):

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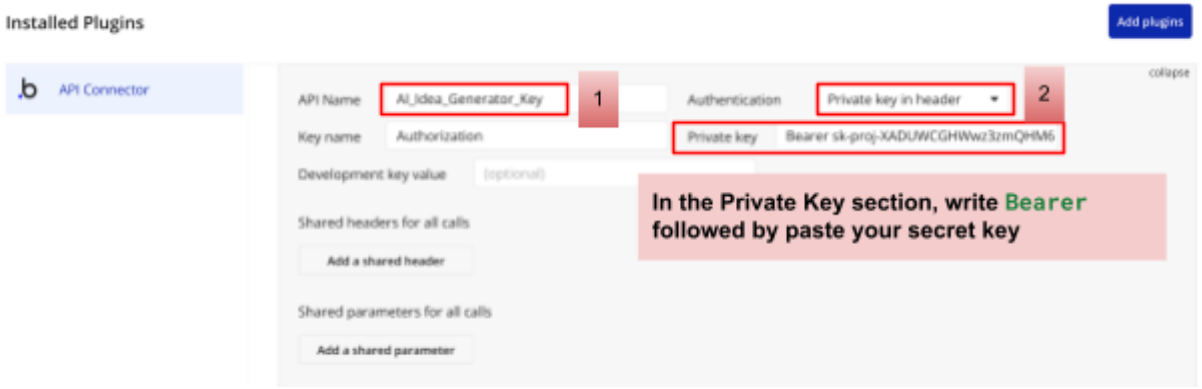
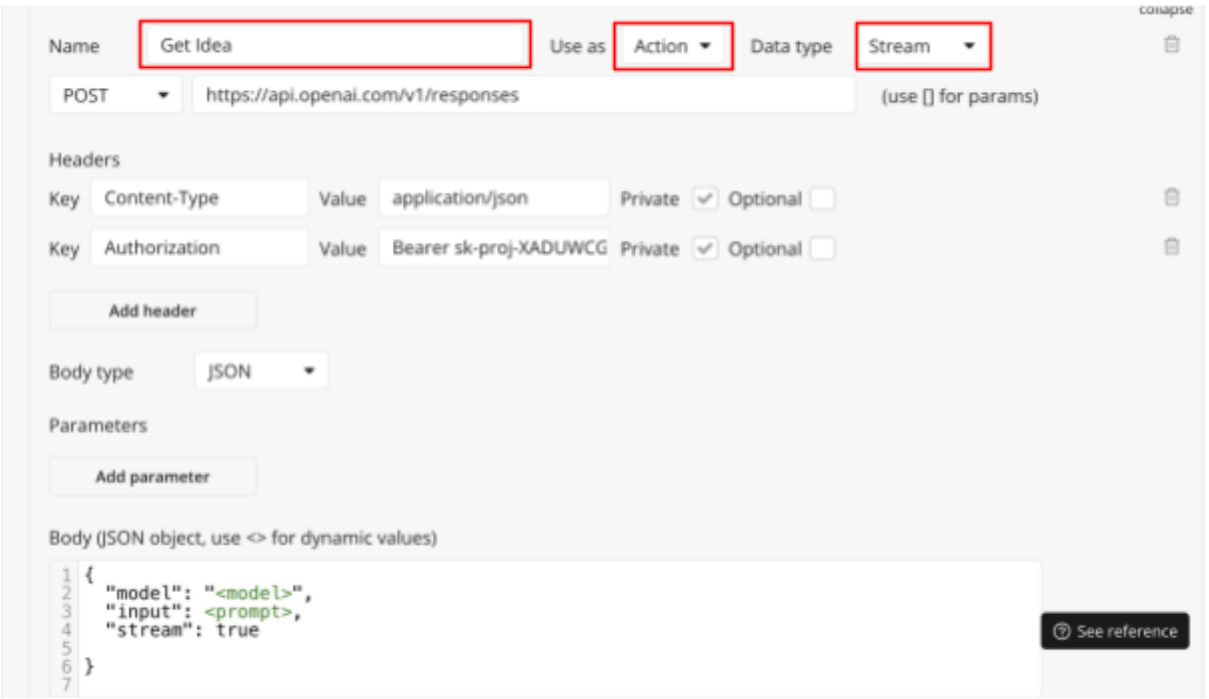


- **Configure the API Connector**: Create a new API call named Get Idea. Configure the call with the correct Method (POST) and URL from the mock service documentation.



Bubble API Connector Setup: (make sure to paste this to your API call setup)

API Call Name: Get Idea

Method: POST

API URL: https://api.openai.com/v1/responses

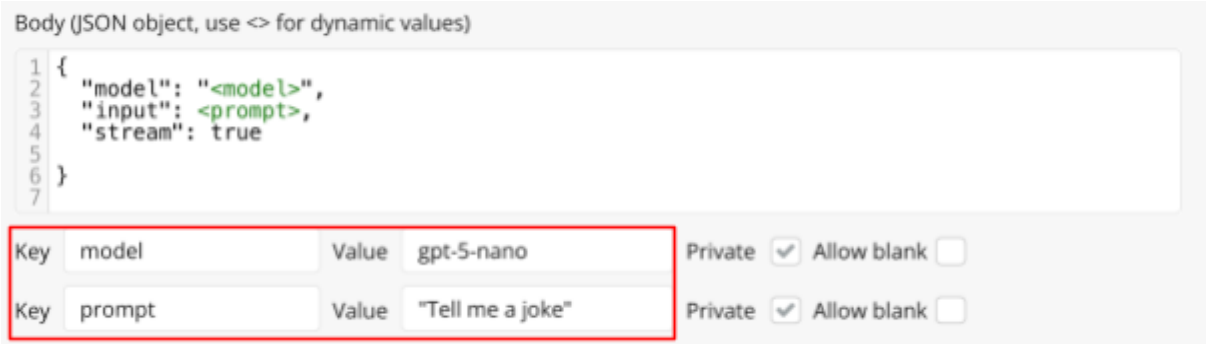
Headers:

Key: Content-Type Value: application/json

Key: Authorization Value: Bearer sk*******

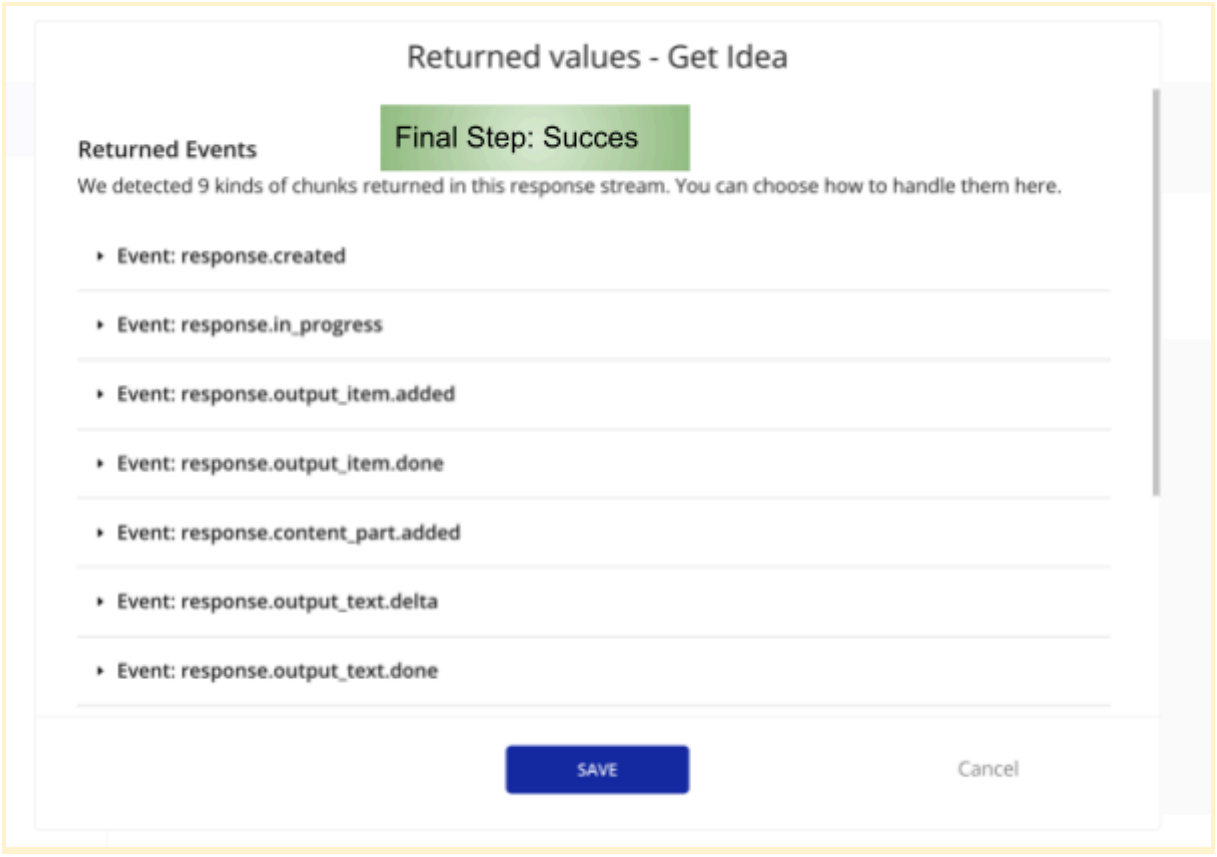
Body Type: JSON (Paste this exactly):

```
{
 "model": "<model>",
 "input": "<prompt>",
 "stream": true
}
```



Key: model Value: gpt-5-nano

Key: prompt Value: “Tell me a joke”


Returned values - Get Idea
Final Step: Succes
Returned Events
We detected 9 kinds of chunks returned in this response stream. You can choose how to handle them here.
Event: response.created
Event: response.in_progress
Event: response.output_item.added
Event: response.output_item.done
Event: response.content_part.added
Event: response.output_text.delta
Event: response.output_text.done
SAVE
Cancel