

Lecture 06: Create OPEN AI API Key

Why Do We Need an API Key?

- OpenAI services are not free—you need credits to use them.
- An API key is required for Spring AI to connect with OpenAI models.
- Charges are based on tokens (input + output text length).

Steps to Create an API Key

- Go to openai.com and log in.
- Select API Platform (not ChatGPT).
- Open Settings → Billing:
 - Add credits (minimum balance required).
 - Disable auto-recharge for safety.
- Go to API Keys → Create New Secret Key:
 - Give it a name (e.g., SpringAI-Demo).
 - Choose a project (default is fine).
 - Assign permissions (simple → all permissions).
 - Click Create → Key generated.
- Copy the key and save it securely.

Add the Key in Project

- Open the **application.properties** file.
- Add the property:
 - **spring.ai.openai.api-key=YOUR_KEY_HERE**

Result:

- Run the Spring Boot project again.
- This time, **no API key error**.
- Project starts successfully on **port 8080**.