

# **Big Data Analytics Programming**

**Week-10. Slack Notification App**

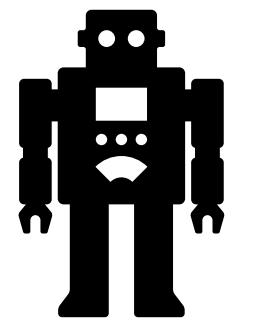
**Jungwon Seo, 2021-Fall**

지금까지 배운 내용을 이용해서 봇  
(bot)을 만들어 볼 수는 없을까?

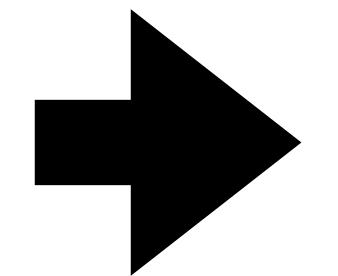
# Slack Bot 만들기

오늘의 날씨

오늘의 주가



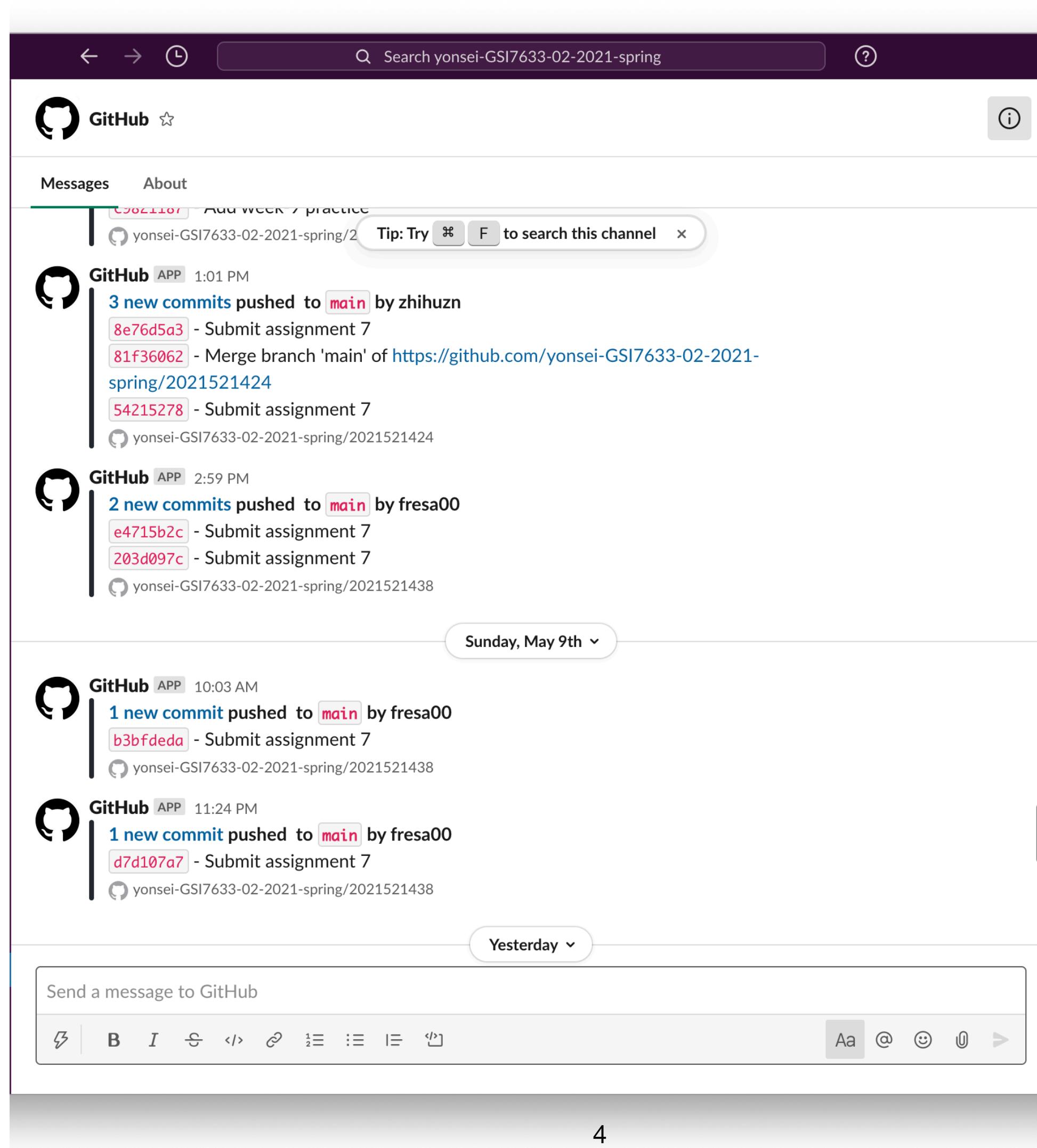
엘론 머스크 트윗



귀여운 강아지 사진

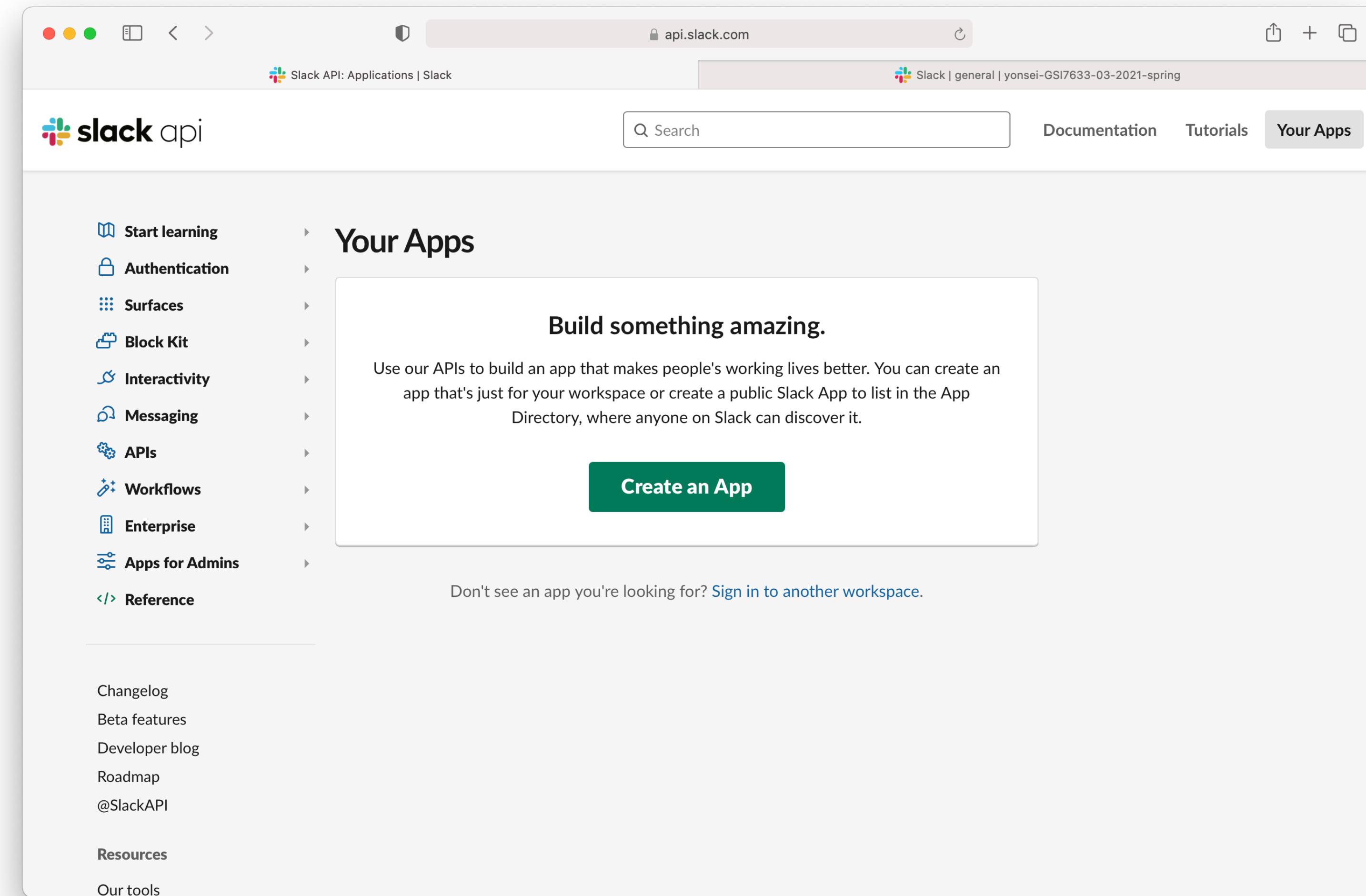
내가 1분마다 보내줄게!

# Github Slack App의 예제



# 나만의 Slack App 만들기

## 다음 주소로 들어가서 앱을 만들어주세요



The screenshot shows a web browser window for the Slack API Applications interface at [api.slack.com](https://api.slack.com). The title bar indicates the current tab is "Your Apps". The main content area displays a "Create an app" modal with two options: "From scratch" (selected) and "From an app manifest (BETA)". A red box highlights the "From scratch" option. The background shows a sidebar with various API documentation sections like Start learning, Authentication, Surfaces, Block Kit, Interactivity, Messaging, APIs, Workflows, Enterprise, Apps for Admins, and Reference. At the bottom, there are links for Changelog, Beta features, Developer blog, Roadmap, and @SlackAPI.

slack api

Slack API: Applications | Slack

Slack | general | yonsei-GSI7633-03-2021-spring

Search

Documentation Tutorials Your Apps

Start learning

Authentication

Surfaces

Block Kit

Interactivity

Messaging

APIs

Workflows

Enterprise

Apps for Admins

Reference

Changelog

Beta features

Developer blog

Roadmap

@SlackAPI

Resources

Our tools

## Your Apps

Use our app

### Create an app

Choose how you'd like to configure your app's scopes and settings.

**From scratch**

Use our configuration UI to manually add basic info, scopes, settings, & features to your app.

**From an app manifest BETA**

Use a manifest file to add your app's basic info, scopes, settings & features to your app.

Need help? Check our [documentation](#), or see an [example](#)

The screenshot shows a web browser window for [api.slack.com](https://api.slack.com). The title bar indicates the page is "Slack API: Applications | Slack". The main navigation bar includes links for "Documentation", "Tutorials", and "Your Apps". The "Your Apps" tab is selected. On the left, a sidebar lists various API categories: Start learning, Authentication, Surfaces, Block Kit, Interactivity, Messaging, APIs, Workflows, Enterprise, Apps for Admins, and Reference. Below the sidebar are links for Changelog, Beta features, Developer blog, Roadmap, and @SlackAPI. Under Resources, there are links for Our tools. A modal dialog titled "Name app & choose workspace" is open in the center. It contains an "App Name" field with "Jungwon\_bot" and a note: "Don't worry - you'll be able to change this later." Below this is a section titled "Pick a workspace to develop your app in:" with a dropdown menu showing "yonsei-GSI7633-03-2021-spring". A red box highlights this dropdown. A note below it states: "Keep in mind that you can't change this app's workspace later. If you leave the workspace, you won't be able to manage any apps you've built for it." At the bottom of the dialog are "Cancel" and "Create App" buttons. The background of the main page shows a "Your Apps" section with a search bar and a list of apps.

slack api

Slack API: Applications | Slack

Slack | general | yonsei-GSI7633-03-2021-spring

Documentation Tutorials Your Apps

Start learning

Authentication

Surfaces

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Interactivity

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APIs

Workflows

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Our tools

Name app & choose workspace

App Name

Jungwon\_bot

Don't worry - you'll be able to change this later.

Pick a workspace to develop your app in:

yonsei-GSI7633-03-2021-spring

Keep in mind that you can't change this app's workspace later. If you leave the workspace, you won't be able to manage any apps you've built for it.

Sign into a different workspace

By creating a [Web API Application](#), you agree to the [Slack API Terms of Service](#).

Cancel Create App

The screenshot shows the Slack API Basic Information page for a bot named 'Jungwon\_bot'. The left sidebar contains navigation links for Settings (Basic Information, Collaborators, Socket Mode, Install App, App Manifest [BETA], Manage Distribution) and Features (App Home, Org Level Apps, Incoming Webhooks, Interactivity & Shortcuts, Slash Commands, Workflow Steps, OAuth & Permissions, Event Subscriptions, User ID Translation, Beta Features). The main content area is titled 'Building Apps for Slack' and includes sections for 'Add features and functionality' (with a note about enabling Socket Mode for internal apps), 'Incoming Webhooks' (highlighted with a red box), and 'Interactive Components'. At the bottom are 'Discard Changes' and 'Save Changes' buttons.

Basic Information

## Building Apps for Slack

Create an app that's just for your workspace (or build one that can be used by any workspace) by following the steps below.

### Add features and functionality

Choose and configure the tools you'll need to create your app (or review all our [documentation](#)).

**Building an internal app locally or behind a firewall?**

To receive your app's payloads over a WebSockets connection, enable [Socket Mode](#) for your app.

**Incoming Webhooks**

Post messages from external sources into Slack.

**Interactive Components**

Add components like buttons and select menus to your app's interface, and create an interactive experience for users.

Discard Changes Save Changes

The screenshot shows a web browser window on a Mac OS X system, displaying the Slack API Applications interface at [api.slack.com](https://api.slack.com). The URL bar also shows the specific application ID: `yonsei-GSI7633-03-2021-spring`.

The main content area is titled "Incoming Webhooks". On the left, there's a sidebar with a dropdown menu set to "Jungwon\_bot" and sections for "Settings" (Basic Information, Collaborators, Socket Mode, Install App, App Manifest [BETA], Manage Distribution) and "Features" (App Home, Org Level Apps, Incoming Webhooks [selected], Interactivity & Shortcuts, Slash Commands, Workflow Steps, OAuth & Permissions, Event Subscriptions, User ID Translation, Beta Features, Where's Bot User [help icon]).

The "Incoming Webhooks" section contains the following content:

- Activate Incoming Webhooks**: A toggle switch is currently set to "Off", which is highlighted with a red rectangular box.
- Information about Incoming Webhooks**:
  - Incoming webhooks are described as a simple way to post messages from external sources into Slack.
  - They use normal HTTP requests with a JSON payload including the message and optional attachments.
- Bot User Requirement**: Adding incoming webhooks requires a bot user. If the app doesn't have one, it will be added automatically.
- Webhook URL Generation**: Each time the app is installed, a new Webhook URL is generated.

The screenshot shows a web browser window for `api.slack.com` with two tabs open: "Slack API: Applications | yonsei-GSI7633-03-2021-spring" and "Slack | general | yonsei-GSI7633-03-2021-spring". The main content is the "Incoming Webhooks" configuration for the "Jungwon\_bot" app.

**Left Sidebar (Settings):**

- Basic Information
- Collaborators
- Socket Mode
- Install App
- App Manifest BETA
- Manage Distribution

**Left Sidebar (Features):**

- App Home
- Org Level Apps
- Incoming Webhooks** (selected)
- Interactivity & Shortcuts
- Slash Commands
- Workflow Steps
- OAuth & Permissions
- Event Subscriptions
- User ID Translation
- Beta Features
- Where's Bot User ?

**Submit to App**

**Main Content Area:**

## Incoming Webhooks

**Activate Incoming Webhooks**  On

**Incoming webhooks** are a simple way to post messages from external sources into Slack. They make use of normal HTTP requests with a JSON payload, which includes the message and a few other optional details. You can include [message attachments](#) to display richly-formatted messages.

Adding incoming webhooks requires a bot user. If your app doesn't have a [bot user](#), we'll add one for you.

Each time your app is installed, a new Webhook URL will be generated.

If you deactivate incoming webhooks, new Webhook URLs will not be generated when your app is installed to your team. If you'd like to remove access to existing Webhook URLs, you will need to [Revoke All OAuth Tokens](#).

---

### Webhook URLs for Your Workspace

To dispatch messages with your webhook URL, send your [message](#) in JSON as the body of an [application/json](#) POST request.

Add this webhook to your workspace below to activate this curl example.

**Sample curl request to post to a channel:**

```
curl -X POST https://slack.com/api/chat.postMessage -H "Content-Type: application/json" -d '{ "text": "Hello, world!" }'
```

The screenshot shows a web browser window with two tabs open. The left tab is titled "Slack API: Applications | yonsei-GSI7633-03-2021-spring Slack" and the right tab is titled "Slack | general | yonsei-GSI7633-03-2021-spring". The left sidebar contains a "Features" menu with options like App Home, Org Level Apps, Incoming Webhooks (which is selected and highlighted in blue), Interactivity & Shortcuts, Slash Commands, Workflow Steps, OAuth & Permissions, Event Subscriptions, User ID Translation, Beta Features, and Where's Bot User. Below this is a "Submit to App Directory" section with a Review & Submit button. The main content area has a heading "add one for you." followed by text about incoming webhooks being generated each time the app is installed. It also mentions deactivating incoming webhooks and revoking OAuth tokens. A section titled "Webhook URLs for Your Workspace" provides instructions for sending messages via curl. A table lists webhook URLs, their associated channels, and the user who added them. A red box highlights the "Add New Webhook to Workspace" button at the bottom of the table.

api.slack.com

Slack API: Applications | yonsei-GSI7633-03-2021-spring Slack

Slack | general | yonsei-GSI7633-03-2021-spring

**Features**

- App Home
- Org Level Apps
- Incoming Webhooks**
- Interactivity & Shortcuts
- Slash Commands
- Workflow Steps
- OAuth & Permissions
- Event Subscriptions
- User ID Translation
- Beta Features
- Where's Bot User

?

**Submit to App Directory**

Review & Submit

Slack ❤️

Help

Contact

Policies

Our Blog

add one for you.

Each time your app is installed, a new Webhook URL will be generated.

If you deactivate incoming webhooks, new Webhook URLs will not be generated when your app is installed to your team. If you'd like to remove access to existing Webhook URLs, you will need to [Revoke All OAuth Tokens](#).

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To dispatch messages with your webhook URL, send your [message](#) in JSON as the body of an [application/json](#) POST request.

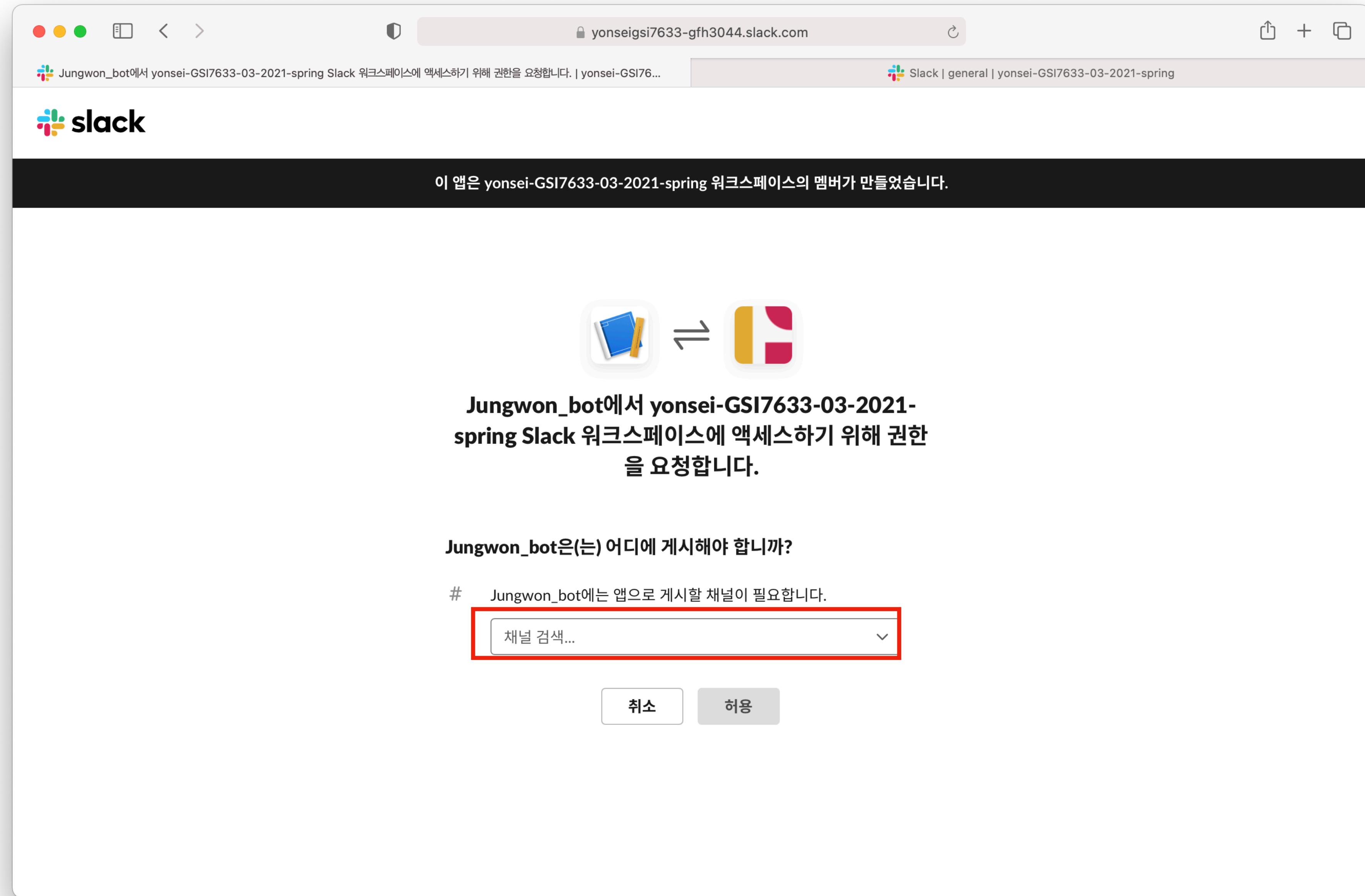
Add this webhook to your workspace below to activate this curl example.

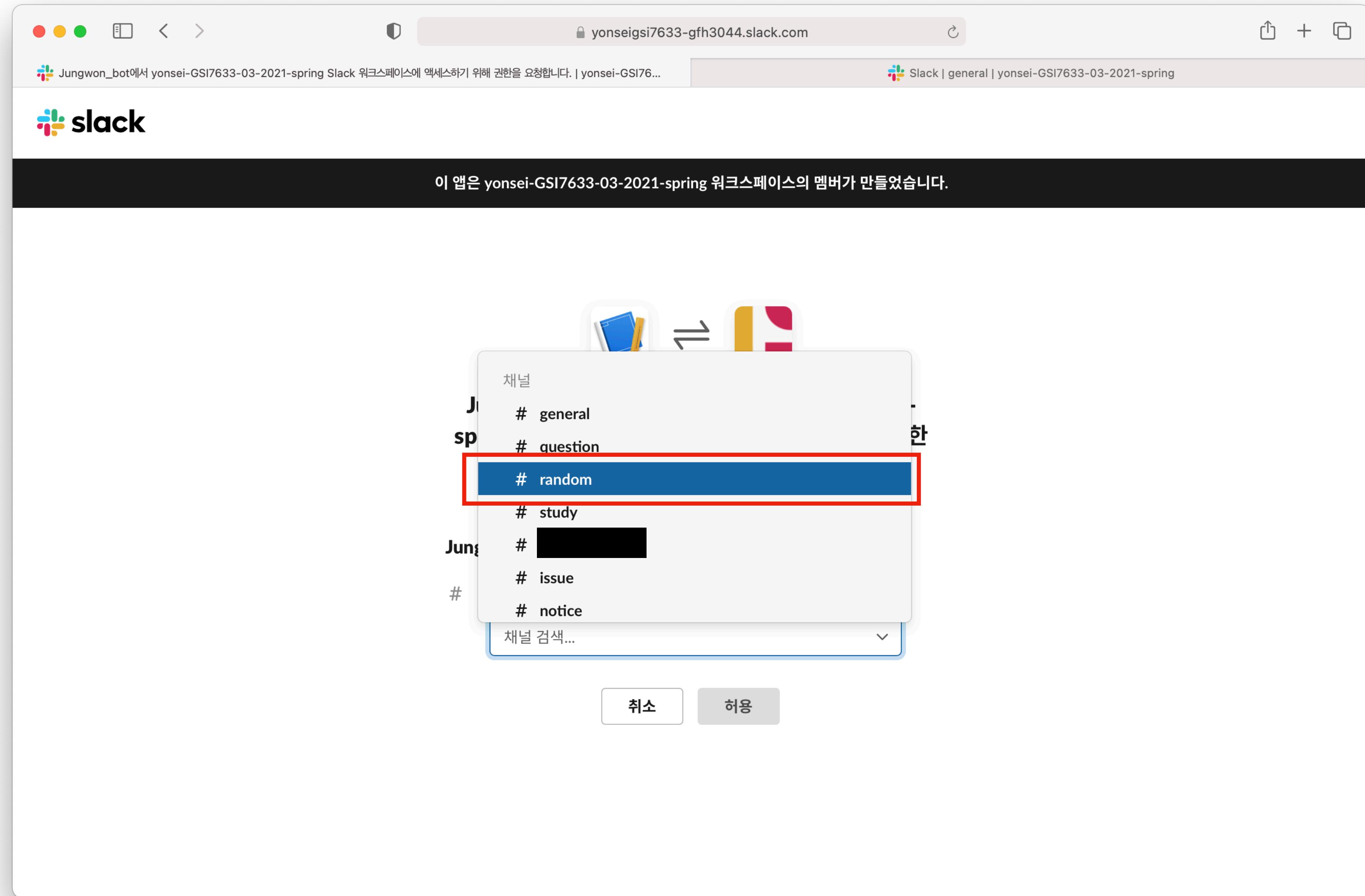
**Sample curl request to post to a channel:**

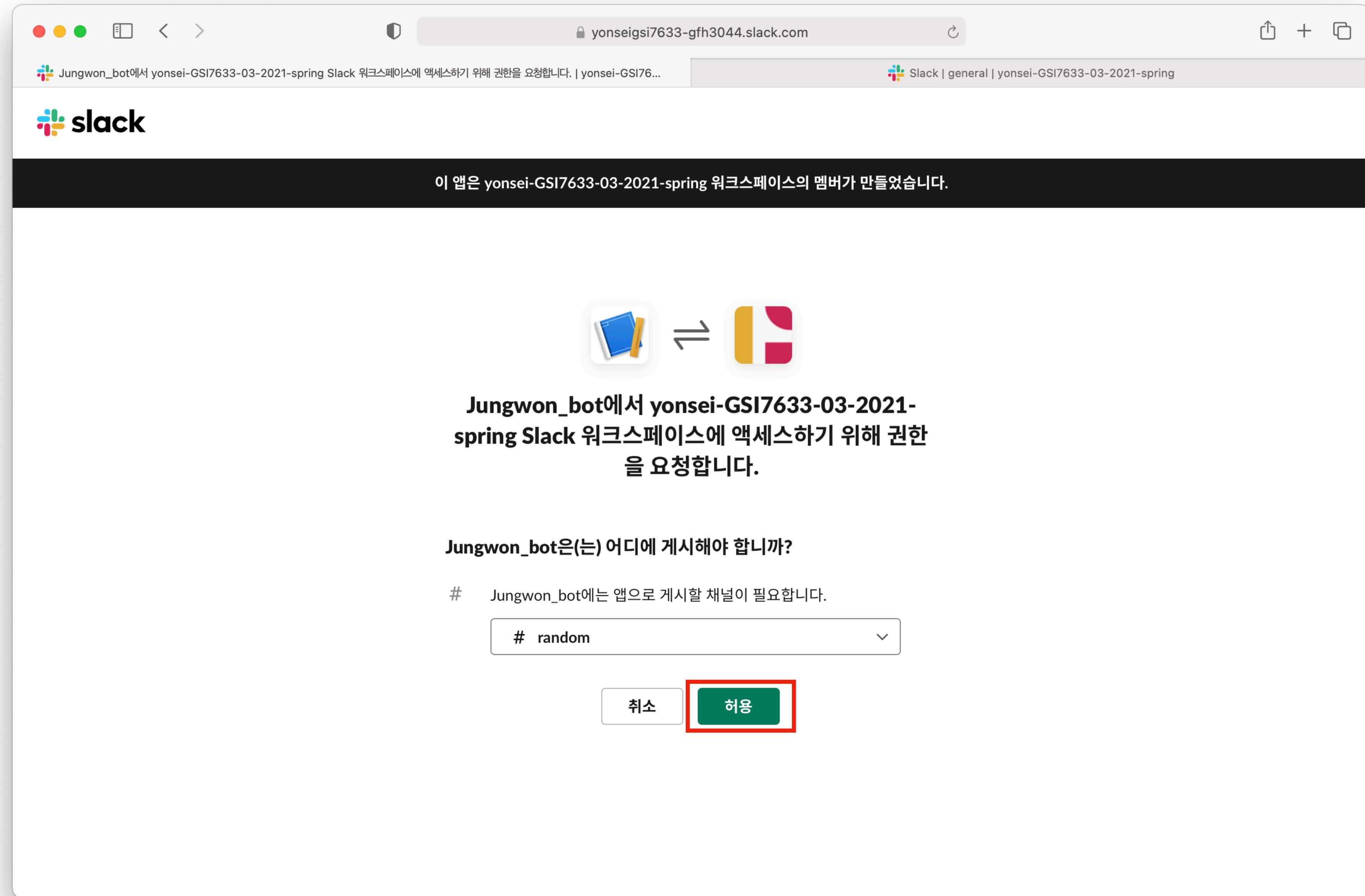
```
curl -X POST -H 'Content-type: application/json' --data '{"text":"Hello, World!"}' YOUR_WEBHOOK_URL_HERE
```

Webhook URL	Channel	Added By
No webhooks have been added yet.		

**Add New Webhook to Workspace**







The screenshot shows a web browser window with two tabs open. The left tab is titled "Slack API: Applications | yonsei-GSI7633-03-2021-spring Slack" and the right tab is titled "Slack | general | yonsei-GSI7633-03-2021-spring". The main content area is for "slack api".

**Features**

- App Home
- Org Level Apps
- Incoming Webhooks** (highlighted in blue)
- Interactivity & Shortcuts
- Slash Commands
- Workflow Steps
- OAuth & Permissions
- Event Subscriptions
- User ID Translation
- Beta Features
- Where's Bot User

**Submit to App Directory**

- Review & Submit

**Slack ❤️**

- Help
- Contact
- Policies
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**Search**

**Documentation Tutorials Your Apps**

add one for you.

Each time your app is installed, a new Webhook URL will be generated.

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## Webhook URLs for Your Workspace

To dispatch messages with your webhook URL, send your [message](#) in JSON as the body of an [application/json](#) POST request.

Add this webhook to your workspace below to activate this curl example.

**Sample curl request to post to a channel:**

```
curl -X POST -H 'Content-type: application/json' --data '{"text":"Hello, World!"}' https://hooks.slack.com/services/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
```

**Copy**

Webhook URL	Channel	Added By
<a href="https://hooks.slack.com/services/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">https://hooks.slack.com/services/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</a> <b>Copy</b>	#random	중원_보조 May 13, 2021

**Add New Webhook to Workspace**

# 1. Python으로 슬랙에 메시지 보내기

## 2. 싸이월드 캠성을 보내는 봇

### **3. 비트코인 김치프리미엄 알림이**

**E.O.D**