Integrating Custom Node.js Webhooks with GitHub

Introduction to Integrating Node.js Applications with GitHub



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What Are Webhooks?

Transmission of structured JSON / XML data to a specified URL

URL contains custom "listener" script

Similar concept to event / callback architecture in JavaScript

Webhooks and GitHub Explained









Creating a Simple Webhook in Node.js

POST listener created with Express

Heroku will be used to quickly deploy webhook

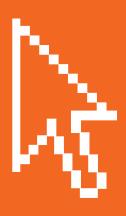
Webhook will output payload contents to log



Enabling Webhooks

Webhooks can be added by administrators via repository control panel

External webhooks created by integrations should not be edited



Webhook Applications

Webhooks essential for creating custom GitHub integrations

Code pushes can trigger pull requests (Heroku)

Interact with mechanical objects (lights, buzzer) via Arduino + NodeJS

Work with repositories in granular detail

Webhooks Summary

Useful for anything not covered by 3rd-party integrations

Most low-level devops tool available

Integrate closely with GitHub