Automating email OTP (One-Time Password) verification in Cypress can be done using a **test email service** that allows programmatic access to incoming emails. Here's a **real-world approach** to automating OTP verification in Cypress:

**Approach: Using a Temporary Email API**

Many services provide disposable email inboxes via API, such as:

* **MailSlurp** ([mailslurp.com](https://www.mailslurp.com/)) – Recommended
* **Mailinator** ([mailinator.com](https://www.mailinator.com/))
* **Guerrilla Mail** ([guerrillamail.com](https://www.guerrillamail.com/))

These services allow Cypress to:

1. **Create a temporary email address** via API.
2. **Sign up on the website using the email.**
3. **Fetch the OTP email via API.**
4. **Extract the OTP and enter it into the UI.**
5. **Verify successful login/signup.**

**Step 1: Install & Setup MailSlurp**

MailSlurp provides **real email inboxes** via API. Sign up for a free account at [MailSlurp](https://www.mailslurp.com/) and get your API key.

**Install MailSlurp SDK:**

npm install --save-dev mailslurp-client

**Step 2: Add MailSlurp API Key to Cypress**

In cypress.config.js, add:

javascript

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const { defineConfig } = require('cypress');

module.exports = defineConfig({

e2e: {

env: {

MAILSLURP\_API\_KEY: "your-mailslurp-api-key" //replace with your key

}

}

});

**Step 3: Create a Custom Command for OTP Handling**

Modify cypress/support/commands.js to include:

import { MailSlurp } from "mailslurp-client"; //import mailslurp-client into your custom commands code

// Custom command to get OTP from email

Cypress.Commands.add("getOtpFromEmail", () => {

const apiKey = Cypress.env("MAILSLURP\_API\_KEY"); //call your env variable and store it in apiKey

const mailslurp = new MailSlurp({ apiKey });

return mailslurp.createInbox().then((inbox) => {

cy.log(`Created temporary email: ${inbox.emailAddress}`);

// Store the email for later use

Cypress.env("email", inbox.emailAddress);

Cypress.env("inboxId", inbox.id);

return inbox.emailAddress;

});

});

**Step 4: Automate OTP Verification in Cypress**

Create a test file: cypress/e2e/email-otp.cy.js

import { MailSlurp } from "mailslurp-client";

describe("Automate Email OTP Verification", () => {

it("Should receive and use OTP for verification", () => {

const apiKey = Cypress.env("MAILSLURP\_API\_KEY");

const mailslurp = new MailSlurp({ apiKey });

// Step 1: Create a temporary email

cy.getOtpFromEmail().then((email) => {

cy.visit("https://example.com/signup"); // Replace with real website

// Step 2: Fill Signup Form

cy.get("#email").type(email);

cy.get("#password").type("Test@1234");

cy.get("#signup-button").click();

// Step 3: Wait for OTP Email

const inboxId = Cypress.env("inboxId");

cy.wait(10000); // Wait for OTP email to arrive

mailslurp.waitForLatestEmail(inboxId, 15000, true).then((email) => {

const otp = email.body.match(/\b\d{6}\b/)[0]; // Extract 6-digit OTP

cy.log(`Extracted OTP: ${otp}`);

// Step 4: Enter OTP in UI

cy.get("#otp-input").type(otp);

cy.get("#verify-button").click();

// Step 5: Assert Successful Signup

cy.contains("Welcome to your dashboard").should("be.visible");

});

});

});

});

**How This Works**

1. **Create a temporary email** using MailSlurp.
2. **Use the email** to sign up on the website.
3. **Wait for an OTP email** in the temporary inbox.
4. **Extract the OTP** from the email body.
5. **Enter OTP in the UI and verify success**.

**Alternative: Using Mailinator (Free, but Limited API)**

Mailinator allows public inboxes, but API access is limited.

1. **Sign up at** [**Mailinator**](https://www.mailinator.com/).
2. **Use an email like test-user@mailinator.com** in the Cypress test.
3. **Fetch the OTP via API**:

cy.request(

`https://api.mailinator.com/api/v2/domains/public/inboxes/test-user/messages?token=your-api-key`

).then((response) => {

const messageId = response.body.messages[0].id;

cy.request(

`https://api.mailinator.com/api/v2/domains/public/messages/${messageId}?token=your-api-key`

).then((emailResponse) => {

const otp = emailResponse.body.parts[0].body.match(/\b\d{6}\b/)[0];

cy.get("#otp-input").type(otp);

cy.get("#verify-button").click();

});

});

**Conclusion**

✅ **Best Approach:** Use **MailSlurp** for real inboxes & secure API  
✅ **Free Alternative:** Mailinator (limited features, public inbox)  
✅ **Fully Automated:** Cypress can receive, extract, and enter OTPs seamlessly