**React**

[**https://react.dev/reference/react**](https://react.dev/reference/react)

**Firebase**

<https://firebase.google.com/docs/web/setup>

**Shadcn**

[**https://ui.shadcn.com/**](https://ui.shadcn.com/)

**To Implement the API’s, we can use the below tools:**

**PostMan**

[**https://www.postman.com/**](https://www.postman.com/)

**SoapUI**

[**https://www.soapui.org/**](https://www.soapui.org/)

**Fast API**

[**https://fastapi.tiangolo.com/**](https://fastapi.tiangolo.com/)

Implementing a ticketing system with email notifications involves several key steps: setting up the backend to manage events, tickets, and users, and integrating an email service to send notifications. Below are such frameworks which we can use:

**Web Frameworks:**

**Django (Python)**:  
Django Documentation (<https://docs.djangoproject.com/en/5.1/>)

Django Models (<https://docs.djangoproject.com/en/5.1/topics/db/models/>)

Django REST Framework (<https://www.django-rest-framework.org/>)

Django Email (<https://docs.djangoproject.com/en/5.1/topics/email/>)

**Express (Node.js)**:

Express Documentation (<https://expressjs.com/>)

Express Guide

NodeMailer (for sending emails)

**Ruby on Rails**:

**Rails Controllers**:  
Controllers in Rails handle web requests and responses. Check out [Rails Controllers](https://guides.rubyonrails.org/action_controller_overview.html) to understand how they work, including routing, parameters, and rendering views.

•**Action Mailer**:  
Action Mailer is a key component for sending emails in Rails. For details on configuring and using Action Mailer, visit the [Action Mailer Basics](https://guides.rubyonrails.org/action_mailer_basics.html). It covers everything from sending emails to adding attachments, and previews.

Rails Documentation

Rails Models

**Email Services:**

**SendGrid**:

SendGrid Documentation

SendGrid API Reference

[SendGrid Python Library](https://github.com/sendgrid/sendgrid-python)

[SendGrid Node.js Library](https://github.com/sendgrid/sendgrid-nodejs)

**Mailgun**:

Mailgun Documentation

[Mailgun Python Library](https://github.com/mailgun/mailgun-python)

[Mailgun Node.js Library](https://github.com/mailgun/mailgun-js)

**Amazon SES**:

[Amazon SES Documentation](https://docs.aws.amazon.com/ses/latest/DeveloperGuide/Welcome.html)

[Amazon SES API Reference](https://docs.aws.amazon.com/ses/latest/APIReference/Welcome.html)

Amazon SES Python (Boto3) Library

[Amazon SES Node.js SDK](https://docs.aws.amazon.com/AWSJavaScriptSDK/latest/AWS/SES.html)

Integrate Knock API into your ticketing system to manage and send multi-channel notifications efficiently by setting up your account, installing the SDK, configuring it with your API key, defining notification templates, and sending notifications on events like ticket purchases.

### Useful Links:

1. Knock API Documentation
2. [Knock Node.js SDK](https://www.npmjs.com/package/@knocklabs/node)

### Free Hosting Web Services:

1. **Heroku**:
   * [Heroku](https://www.heroku.com/): A platform as a service (PaaS) that enables developers to build, run, and operate applications entirely in the cloud.
   * Heroku Free Tier: Information about the free tier on Heroku.
2. **Netlify**:
   * [Netlify](https://www.netlify.com/): A platform for web hosting and serverless backend services for static websites.
   * Netlify Free Tier: Information about the free tier on Netlify.
3. **GitHub Pages**:
   * [GitHub Pages](https://pages.github.com/): A static site hosting service that takes HTML, CSS, and JavaScript files directly from a repository on GitHub.
4. **Vercel**:
   * [Vercel](https://vercel.com/): A cloud platform for static sites and serverless functions.
   * Vercel Free Tier: Information about the free tier on Vercel.
5. **Render**:
   * [Render](https://render.com/): A unified cloud to build and run all your apps with free SSL, a global CDN, private networks, and auto deploys from Git.
   * Render Free Tier: Information about the free tier on Render.
6. **Firebase**:
   * [Firebase](https://firebase.google.com/): A platform developed by Google for creating mobile and web applications.
   * Firebase Free Tier: Information about the free tier on Firebase.