Website Development For Doctorspectra

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Overview

1. Introduction
2. Workflow Followed
3. Challenges Faced
4. Hosting
5. Future Scope Of Work

Introduction

Introduction

- To develop a showcase website for the company Doctorspectra
- Focuses on the solutions provided by the company their missions and values.
- Workflow Follwed
- Challanges Faced
- Future Scope of Work

Workflow Followed

Workflow Followed

Technology Selection

- React over Other Frontend Technologies
- Virtual Dom - updates and rerenders only affected components.
- Component Based - Modularity Reusability
- Active Community Support

Technology Selection

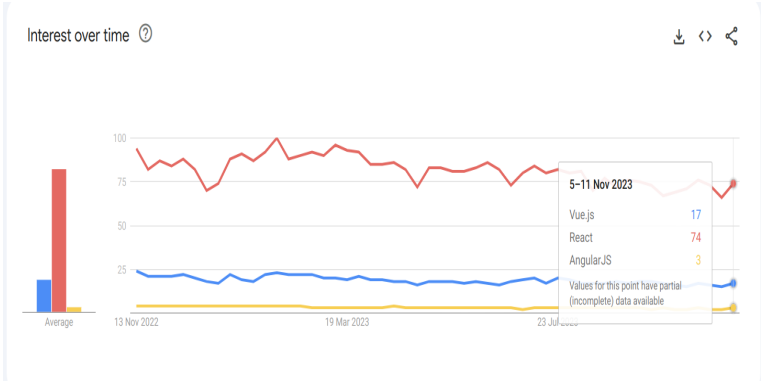

Figure: Google Trends of Popularity

Workflow Followed

Technology Selection - Hosing Service Providers

- AWS EC2
  - Based on the workloads we can configure the instance.
  - Dedicated instances.
  - Pricing is bit high.
- Godaddy
  - Shared instances.
  - Not scalable based on workloads.
  - Pricing is low.

Workflow Followed

- Template lookup
- Component Development
- Homepage Development
- Page Expansion
- Feedback and Iteration

Workflow Followed

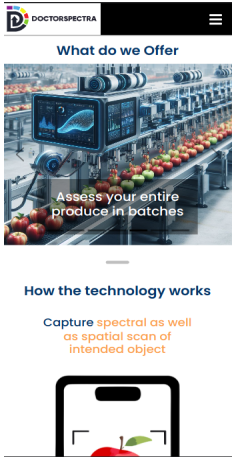

Figure: Home Page on Mobile

Workflow Followed

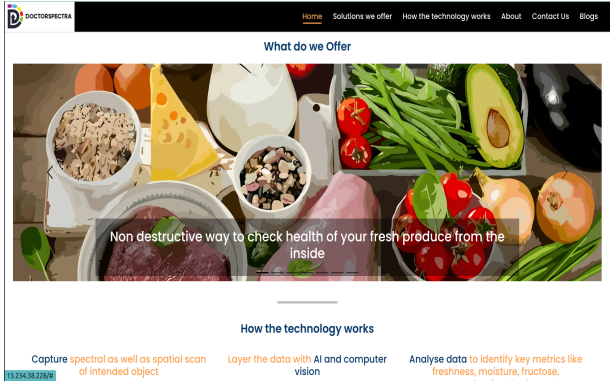

Figure: Home Page

Challenges Faced

Challenges Faced

High Image Sizes and Page Loading Speed

- Compression of Images. Is it enough?
- Converting to SVG - xml based format. File size will be decreased.
- Some Pictures with high color detail, have high sizes even in svg format.
- WebP provides very less file sizes. Developed by Google.

Challenges Faced

High Image Sizes and Page Loading Speed

- Can we do anything else? Yes
- React Lazy Loading Images - Sends a request to the server to get the an image, when it comes to viewport.

Challenges Faced

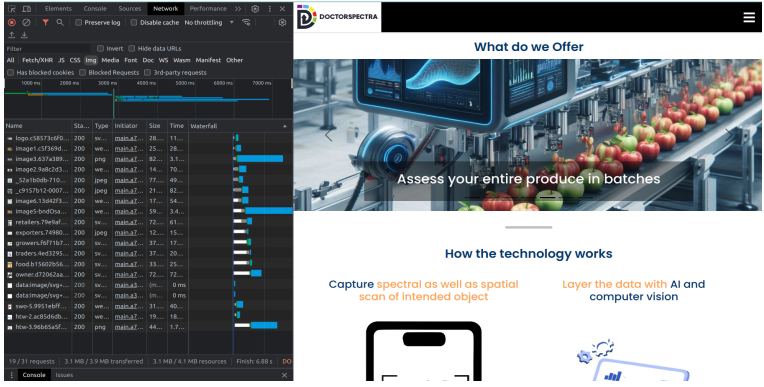

Figure: Requests for images at the top of the Home page

Challenges Faced

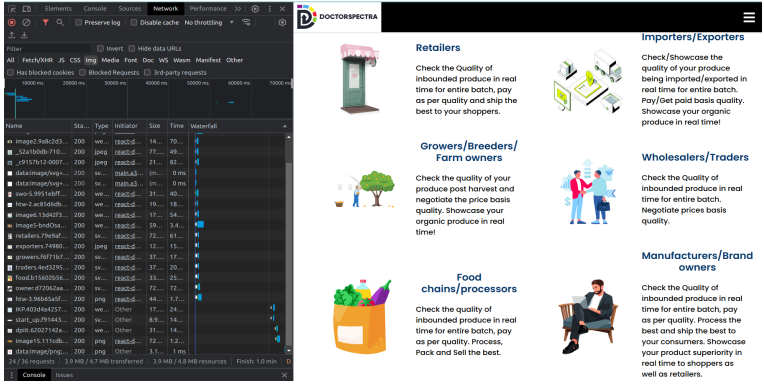

Figure: Requests for images as we come down

Challenges Faced

Sending emails without Backend

- Sending forms data to Doctorspectra's mail.
- Used EmailJs - An external api which can send emails.
- Provides Javascript SDK, through which we can send mails.

Hosting

Hosting

- AWS EC2 instance was created.
- Used pm2 to Host React application.
- pm2 make sure that the application is alive forever even after the instance is closed.

Future Scope Of Work

Future Scope Of Work

- Backend Implementation
- DataBase Integration
- Blogs - hardcoded to dynamic.