Showcasing Web Development Work to ATAfrica

By Afayomide Oluwaseyi

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Agenda

- Introduction
- Overview of Web Development Project
- Technologies Used
- Development Process
- Website Features
- Challenges and Solutions
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- Future Development
- Conclusion and Q&A Session
- Closing Remarks

Introduction

1

About Me

I am a web developer from Lagos Nigeria. I enjoy indoor activities, music and writing code. I am looking forward to a positive review in conclusion of this presentation so I can work with you.

2

Purpose of the Presentation

Present my work on building https://adotadvisor.vercel.app

Illustrate my understanding of good UI/UX

Show my knowledge on working with a database and building an API

3

Technologies Used

MongoDB

React

Express/Node

SASS/CSS

BOOTSTRAP

Overview of Web Development Project

Scope and Objectives

The scope of the project and its objectives:

To showcase my skills as a proficient and experienced web developer ready to work for ATAfrica

Timeline and milestones of the project:

Start Date: Monday Jan 13 2024

End Date: Tuesday Jan 19 2024

Website Overview

The URL of the website:

https://adotadvisor.vercel.app

The URL of the api:

https://adotadvisor-u4zq.vercel.app

Github URL:https://github.com/Afayomide/adotadvisor

Target audience of the website:

Employers at ATAfrica

Key features of the website:

Signup and login feature

Good UX

Display of data from mongodb

API built with express

Technologies Used

JavaScript was the primary language for both frontend and backend development.

MongoDB was the chosen database for its flexibility and compatibility with Node.js.

React was used for building the interactive frontend, ensuring a seamless user experience.

Node.js and Express were the backend frameworks for handling server-side logic and API development.

Development Process

Planning Phase

Wireframes a quick UI/UX design.

Decided on best tech stacks to use

Getting of images to use

Deciding on name to call the project

Implementation

Using Visual studio code, I created folder and used my tech stacks to write clean and concise code, following the DRY rule.

Testing

This phase included unit testing, integration testing, and user acceptance testing to ensure the website met all requirements.

I used my mom,girlfriend and uncle as personas on the project

Deployment

I used Git commands to push the code from a local server to a remote server. I used vercel for deployment of both the api and the front-end.

Website Features

Key Features

- login/signup
- Dynamic Content Loading
- Database-driven Functionality
- Responsive Design
- Interactive UI/UX

Demonstration

- https://adotadvisor.vercel.app
- https://adotadvisor-u4zq.vercel.app

Challenges and Solutions

Challenges Encountered

On Wednesday Jan 17, the free tier of mongoDB had a downtime of over 3 hours and after speaking to their customer representative I had to wait for over 6 hours before I could access my DB.

The picture sizes were all initially huge

Problem logging out after 10 minutes automatically

Solutions Implemented

Conversation with MongoDB customer representative to determine the issue and know how long I had to wait for it to be fixed.

Using a free software on the internet to reduce the sizes of images

Used useffect and set-timer to delete token from browser

Iterative Development Process

Testing of code and UI across different screen sizes

performance and optimization

1. I repeatedly changed and tested the UI/UX across different screen sizes as often as I could to ensure it was working as intended.

2. I made sure I followed the rule of DRY (don’t repeat yourself) to ensure the code looked neat and also strategic use of lazy loading optimized page performance by loading content only when necessary, reducing initial load times.

3. I made sure I wrote code that was cross-browser compatible to allow freedom of choice of browsers among users.

Future Development

1

Proposed Features and Enhancements.

More interactive design and more information for users.

A valid customer care feature and creating forms for user enquiries.

2

Scalability Considerations

Going from the shared/free version of mongo to a paid one to accomodate more users.

Using a more powerful and private hosting server to avoid service downtime.

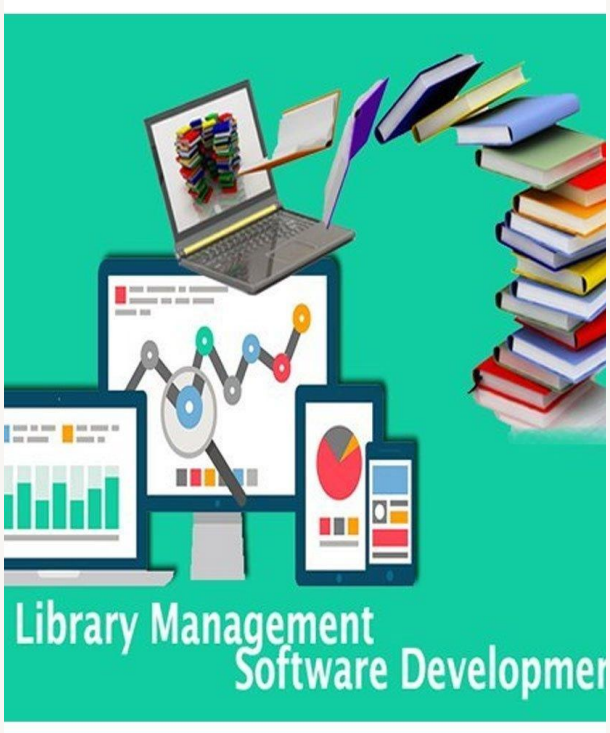
3

Continuous Improvement Strategies

Enticing and good graphics for users.

Providing more information and documentation for users.

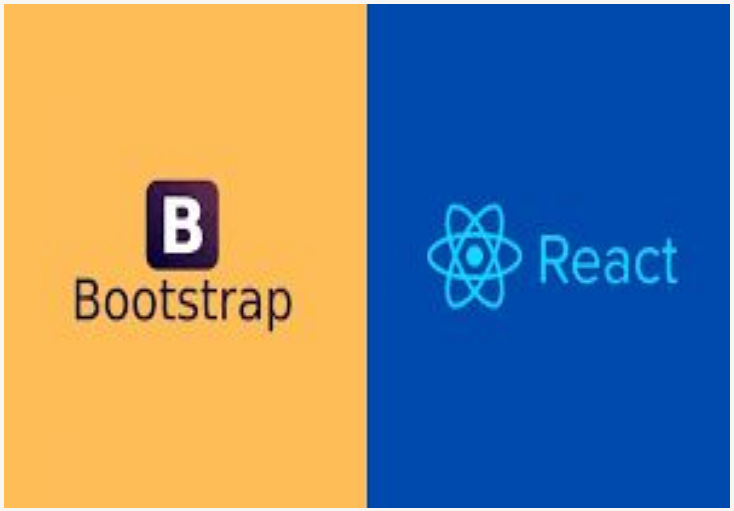
Packages, modules, libraries used



Backend Packages

- express - for building the backend API and handling HTTP requests
- cors - for enabling cross-origin resource sharing
- jsonwebtoken - for creating and verifying JSON Web Tokens for user authentication
- bcrypt - for hashing passwords for secure storage
- mongoose - for elegant MongoDB object modeling in Node.js
- Body-parser - The middleware parses incoming request bodies and makes the parsed data available on the req.body object.

Packages, modules, libraries used



Frontend Packages

- Bootstrap - a popular CSS framework for building responsive and interactive user interfaces.
- axios - a promise based HTTP client for making API requests from the browser.
- react-router-dom - a collection of navigation components for declarative routing in React applications.
- react-icons - a library for including customizable icons in React applications.

Conclusion and Q&A Session

- I had fun with this project and I am glad I was able to start and finish within the given timeframe

- I am ready to answer any question regarding this project on my email @daraseyi086@gmail.com

- Thank You for this opportunity

closing remarks

Key Points

- I want to thank you for bringing me to this stage of the interview process and I hope I move on to the next stage and possibly work for this company
- I agree I could have done better and added more features but I would have needed more time.
- I am looking forward to getting positive remarks and working with you
- my email is daraseyi086@gmail.com incase of further question.