

# Day 6 - Deployment Preparation and Staging Environment Setup

On Day 6, the focus was on deploying the application to a staging environment and ensuring readiness for live deployment. Below is a detailed summary of the process and deployment details:

---

## Deployment Details

- **Hosting Platform:** Vercel
  - **Repository Link:**  
<https://github.com/Asmayaseen/scrate.git>
  - **Staging URL:** [scrate.vercel.app](https://scrate.vercel.app)
- 

## Environment Setup Process





































### 1. Hosting Platform Setup

- Chose **Vercel** as the hosting platform for its ease of use and optimized Next.js support.
- Connected the **GitHub repository** to Vercel for continuous integration.

- Configured build settings and added necessary environment variables securely for seamless deployment.

## 2. Environment Variables

- Created a secure `.env` file with the following variables:
  - `NEXT_PUBLIC_SANITY_PROJECT_ID`: Identifier for the Sanity project.
  - `NEXT_PUBLIC_SANITY_DATASET`: Production dataset name.
  - `API_KEY`: Key for third-party integrations.
  -
- These variables were uploaded securely to the Vercel environment to ensure safety during deployment.

- |   |  |   |              |   |     |
|---|--|---|--------------|---|-----|
|   | <code>NEXT_PUBLIC_CLERK_PUBLISHABLE_KEY</code><br>All Environments |   | Added 7h ago |   | ... |
|  | <code>NEXT_PUBLIC_SANITY_API_VERSION</code><br>All Environments    |  | Added 7h ago |  | ... |
|  | <code>STRIPE_SECRET_KEY</code><br>Preview                          |  | Added 1d ago |  | ... |
|  | <code>CLERK_SECRET_KEY</code><br>Preview                           |  | Added 1d ago |  | ... |
|  | <code>SANITY_API_TOKEN</code><br>Preview                           |  | Added 1d ago |  | ... |
|  | <code>NEXT_PUBLIC_EMAILJS_TEMPLATE_ID</code><br>Preview            |  | Added 1d ago |  | ... |
|  | <code>NEXT_PUBLIC_EMAILJS_SERVICE_ID</code><br>Preview             |  | Added 1d ago |  | ... |
|  | <code>NEXT_PUBLIC_EMAILJS_USER_ID</code><br>Preview                |  | Added 1d ago |  | ... |
|  | <code>NEXT_PUBLIC_SITE_URL</code><br>Preview                       |  | Added 1d ago |  | ... |
|  | <code>NEXT_PUBLIC_STRIPE_PUBLISHABLE_KEY</code><br>Preview         |  | Added 1d ago |  | ... |
|  | <code>NEXT_PUBLIC_SANITY_DATASET</code><br>Preview                 |  | Added 1d ago |  | ... |
|  | <code>NEXT_PUBLIC_SANITY_PROJECT_ID</code><br>Preview              |  | Added 1d ago |  | ... |

### 3. Staging Deployment

- Successfully deployed the application to the **staging environment** using Vercel.
- Ensured the build process completed without errors.
- Validated the functionality by loading the staging site and testing critical features.

```

Creating an optimized production build ...
✓ Compiled successfully
✓ Linting and checking validity of types
✓ Collecting page data
✓ Generating static pages (14/14)
✓ Collecting build traces
✓ Finalizing page optimization

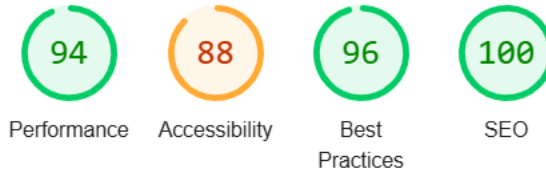
```

Route (app)	Size	First Load JS
o /	182 B	93.1 kB
o /_not-found	880 B	88.8 kB
f /[Categories]	2.77 kB	147 kB
o /Bag	2.07 kB	102 kB
o /Checkout	3.64 kB	106 kB
o /Help	191 B	99.9 kB
o /JoinUs	1.62 kB	94.6 kB
f /Order-Tracking/[order_Id]	1.08 kB	104 kB
o /Products	663 B	135 kB
f /Products/[id]	8.06 kB	156 kB
o /SignIn	182 B	93.1 kB
o /Stores	143 B	88 kB
o /studio/[...tool]	1.27 MB	1.41 MB
o /WishList	1.35 kB	101 kB
First Load JS shared by all	87.9 kB	
├ chunks/2117-23d838cc60a917d5.js	31.8 kB	
├ chunks/fd9d1056-3e984e8fe4b03ea3.js	53.6 kB	
└ other shared chunks (total)	2.48 kB	

---

## Performance Testing

### 1. Desktop Performance



## Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

▲ 0–49    ■ 50–89    ● 90–100



## METRICS

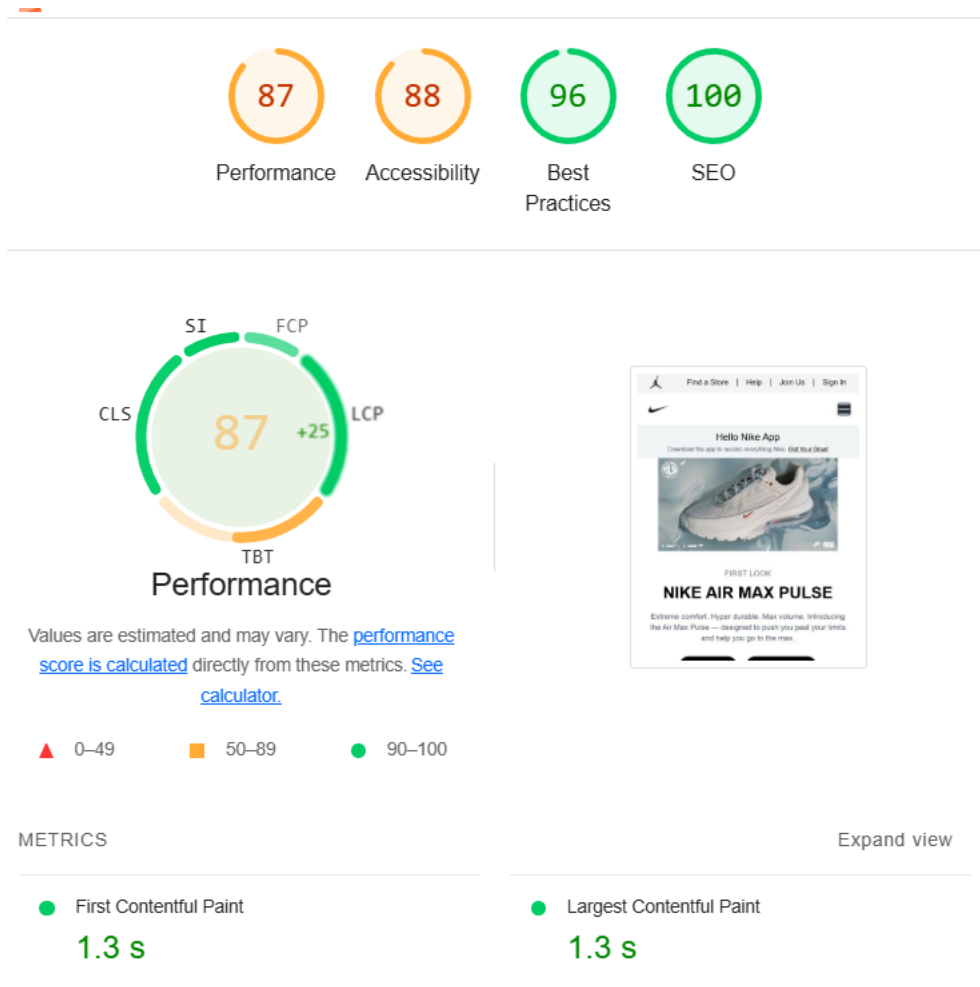
Expand view

● First Contentful Paint  
1.3 s

● Largest Contentful Paint  
1.3 s

- **Key Metrics Tested:** Page load speed, responsiveness, and user experience.
- **Result:** Achieved optimal performance on desktop browsers with fast load times and smooth navigation.
- 
- 

## 2. Mobile Performance



- **Key Metrics Tested:** Responsiveness, content scaling, and touch interactions.
- **Result:** The application performed well on mobile devices, ensuring a user-friendly experience across various screen sizes.
- 

---

## International Market Readiness

The deployment process and staging environment setup were designed to meet international standards, ensuring the platform is capable of catering to a global audience. This includes:

- Scalable infrastructure to handle traffic spikes.
  - Robust API integrations for seamless third-party services.
  - Localization-ready architecture for multi-language support (if needed in the future).
- 

## **Final Remarks**

The deployment and staging environment setup were executed successfully, with a focus on security, performance, and scalability. The staging site is now ready for final testing and feedback before moving to the live environment.

***Name: Asma Yaseen***

***Roll No: 00436743***

***Slots: 2 To 5 Saturday***