

Sprint 3

March 21, 2025

CodelIngo

NFR Document

Chosen NFRs

1. Usability

Reason: Usability was prioritized as we think user experience is the most important in our web app. Our target users want an environment where they can learn to code, so we aimed to make the application easy to interact with so they could start fast.

2. Security

Reason for Priority: Security is always important in this day and age, especially with all the hackers and malicious malware. Making sure the user data and passwords are protected is one of our most important concerns to make sure people stay using our web app.

3. Availability

Reason: Our website is meant for learning, and thus we want as many people as we can to use it. We will try to make sure our services are always up, it is free to use, free to sign up, and free to join friends.

Trade-offs Made

Trade-off 1: Performance vs. Usability

Why We Made the Trade-off: To enhance usability, since right now we do not have too much complex processing needed for our web app, we agreed that it's okay if we set aside performance for now and focus on the user experience especially since we're in the starting stage.

Trade-off 2: Scalability vs. Security

Why We Made the Trade-off: To ensure high security, we implemented strict data protection such as password hashing, using firebase which protects the data, and route guardian to restrict access to unauthorized users. Similar to above we thought this was more important since we are just starting out and do not expect such a large influx of users yet. It is not as scalable as it could be right now, though this will change.