Software Implementation and Testing Document

For

Group 10
Increment 3

Version 1.0

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1. **Programming Languages (5 points)**

- Python
- HTML & CSS

2. **Platforms, APIs, Databases, and other technologies used (5 points)**

List all the platforms, APIs, Databases, and any other technologies you use in your project and where you use them (in what components of your project).

- Flask: A python web framework
- UserData: Our own local database
- HTML and CSS
- JavaScript
- Front-End Framework: React and Angular

3. **Execution-based Functional Testing (10 points)**

*Describe how/if you performed functional testing for your project (i.e., tested for the **functional requirements** listed in your RD).*

- Ran test cases to ensure user registration and login worked.
- Confirmed the searches functionality
- Checked functioanlity of posting and commenting by logging into the respective accounts that received comments.

4. **Execution-based Non-Functional Testing (10 points)**

*Describe how/if you performed non-functional testing for your project (i.e., tested for the **non-functional requirements** listed in your RD).*

We tested the website's speed and ability to handle many users simultaneously, ensuring it ran smoothly under heavy traffic. Security checks were performed to safeguard user data and protect against potential threats. Additionally, we observed real users to confirm the site was easy to navigate across different devices and web browsers, ensuring a reliable and user-friendly experience.

5. **Non-Execution-based Testing (10 points)**

Describe how/if you performed non-execution-based testing (such as code reviews/inspections/walkthroughs).

We performed static analysis special tools to look through the code without running it to find mistakes or places where the website might not work well. It's like proofreading before publishing. We made sure our website followed all the rules and standards, like accessibility guidelines or security requirements. It's like making sure a house meets building codes. It runs.