

# Software Implementation and Testing Document

For

Group <1>

Version 3.0

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

*Python, HTML, CSS, JavaScript*

*These languages were chosen for their compatibility and ease of use for development. Most team members in the group are also familiar with the languages listed making it ideal for us to use them in our project*

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

*SQLite database, Flask, TheOdds API*

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

*Running the Flask-based application locally to then manually test out the website. Making sure that if you press a button or a hyperlink you are then sent to the appropriate render of an HTML or outcome populate.*

*Creating test programs for making API calls using the programs from the TheOdds API website as basis. Confirmed that we can access an API key for free and pull odds using Python.*

## **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).*

- *Added home button and conditional buttons that allow the user to browse the site easier and make everything more accessible for the user.*

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

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

*We tested the code using python scripts to ensure that the entire process of placing bets was functional from the time a user placed a bet all the way to the user cashing in on a bet.*