Golf Stats Tracker – James Donohue

# Introduction

Golf enthusiasts often struggle to keep track of their performance and statistics over time. There is a need for a user-friendly platform where golfers can log their scores, track their progress, and analyze their performance. I propose to create a dynamic website named "Golf Stats Tracker." This platform will allow users to log their golf scores, track their statistics, and view their progress over time. The site will provide various metrics and visualizations to help users analyze their performance. The site's purpose is to provide golfers with a convenient and efficient way to record and review their golf statistics, helping them improve their game. This site adds value by offering a centralized platform for golfers to manage their stats, set goals, and track improvements. It helps golfers stay motivated and informed about their performance. The idea is cool to me because it combines my passion for golf with my interest in web development. It addresses a common need among golfers and offers practical benefits. The personal relevance of the idea, along with the potential for practical use, will keep me motivated to complete the project. The opportunity to create a tool that can enhance my golfing experience is exciting.

# Timeline

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| Week 1 | * Submit Proposal * Research similar platforms for ideas |
| Week 2 | * Set up development environment * Initial design/brainstorm |
| Week 3 | * Finalize design using Moqups * Begin implementing the front-end |
| Week 4 | * Develop back-end with PHP * Set up MySQL database and integrate with back-end * Basic user registration and authentication system |
| Week 5 | * Implement golf stat logging and tracking features * Develop user interface for entering and viewing stats * Ensure database connectivity and functionality |
| Week 6 | * Finalize and test all features * Prepare for final presentation |

# Levels of Sophistication

**Website Type:** The website will be a personal performance tracking platform specifically for golf statistics.

**Description:** "Golf Stats Tracker" will allow users to:

* Register and log in.
* Log their golf scores and stats (e.g., strokes, putts, fairways hit).
* View and analyze their performance over time with charts and graphs.
* Set personal goals and track progress.

**Future Benefits:** This project will help me gain practical experience in full-stack web development, which is valuable for my career in computer science. Additionally, I can continue to develop and use the platform beyond this class.

**Implementation Levels:**

**Minimum:**

* Basic stat logging and user registration.
* Simple database integration to store user stats.
* Basic visualization of stats (e.g., line charts).

**Optimal:**

* Comprehensive stat logging with multiple metrics.
* User profiles with detailed performance history.
* Advanced visualizations (e.g., bar charts, pie charts).
* Responsive design for mobile and desktop.

**Utopian:**

* Real-time data entry and updates.
* Social features to compare stats with friends.
* Advanced analytics and insights (e.g., trend analysis, recommendations).

**Features and Technologies:**

* HTML/CSS for front-end structure and design.
* JavaScript for interactivity and dynamic content.
* PHP for server-side processing.
* MySQL for database management.
* Chart.js or similar library for data visualization.
* Responsive design techniques for mobile compatibility.

**Hosting:** I plan to host the website on a self-hosted virtual environment to maintain control and avoid additional costs.

# Conclusion

This project presents an exciting opportunity to blend my personal interests with my academic and professional goals. Developing "Golf Stats Tracker" will not only help me hone my web development skills but also provide a practical tool that I can use and potentially share with other golf enthusiasts.

The process will involve a significant time commitment, estimated at 10-15 hours per week. This includes researching similar platforms, designing and developing both the front-end and back-end, setting up and managing the database, and testing the final product. Each phase of the project will require focused effort and attention to detail, ensuring that the final product is functional, user-friendly, and aesthetically pleasing.

By setting clear milestones and breaking down the project into manageable tasks, I am confident that I can deliver a robust and valuable platform within the given timeframe. Additionally, the skills and experience gained from this project will be directly applicable to my future endeavors in web development and computer science.

Overall, "Golf Stats Tracker" is a project that aligns with my personal interests, academic goals, and professional aspirations. It offers a unique opportunity to create something meaningful and useful, while also pushing the boundaries of my technical skills and creativity. I am excited to embark on this journey and look forward to the challenges and learning experiences it will bring.