

ArrowTrack:

Inventory Management System for Archers and Archery Clubs

OVERVIEW

As an archer and club committee member myself, I recognised the need for a tool that could be easily used to track owned items and their conditions for the purpose of maintenance and budget allocation for replacement equipment, for both individuals and clubs within the archery community, or even other sports communities. ArrowTrack was designed with the goal of addressing these needs.

CORE FEATURES

- For individuals, the application provides a tool to monitor the condition of their equipment, ensuring longevity and performance, thus saving money in the long term on damages.
- For clubs, where club-owned equipment can be spread across multiple indoor and outdoor ranges, or on loan out to club members trialling different bow setups, the ArrowTrack tool can be used to manage this in one centralised tool.
- ArrowTrack’s total cost and by-location cost functionalities can be especially helpful to club treasurers and equipment officers, assisting in insurance estimations and budget planning.

TECHNOLOGY

ArrowTrack implements a single-page application (SPA) architecture to provide a seamless and responsive user experience, designed to act as a database front-end. The user’s data is stored locally, client-side, ensuring data privacy and confidentiality without the requirement of server-side databases. This allows ArrowTrack to function anywhere, even in locations without internet access such as remote archery ranges, ensuring accessibility despite location.

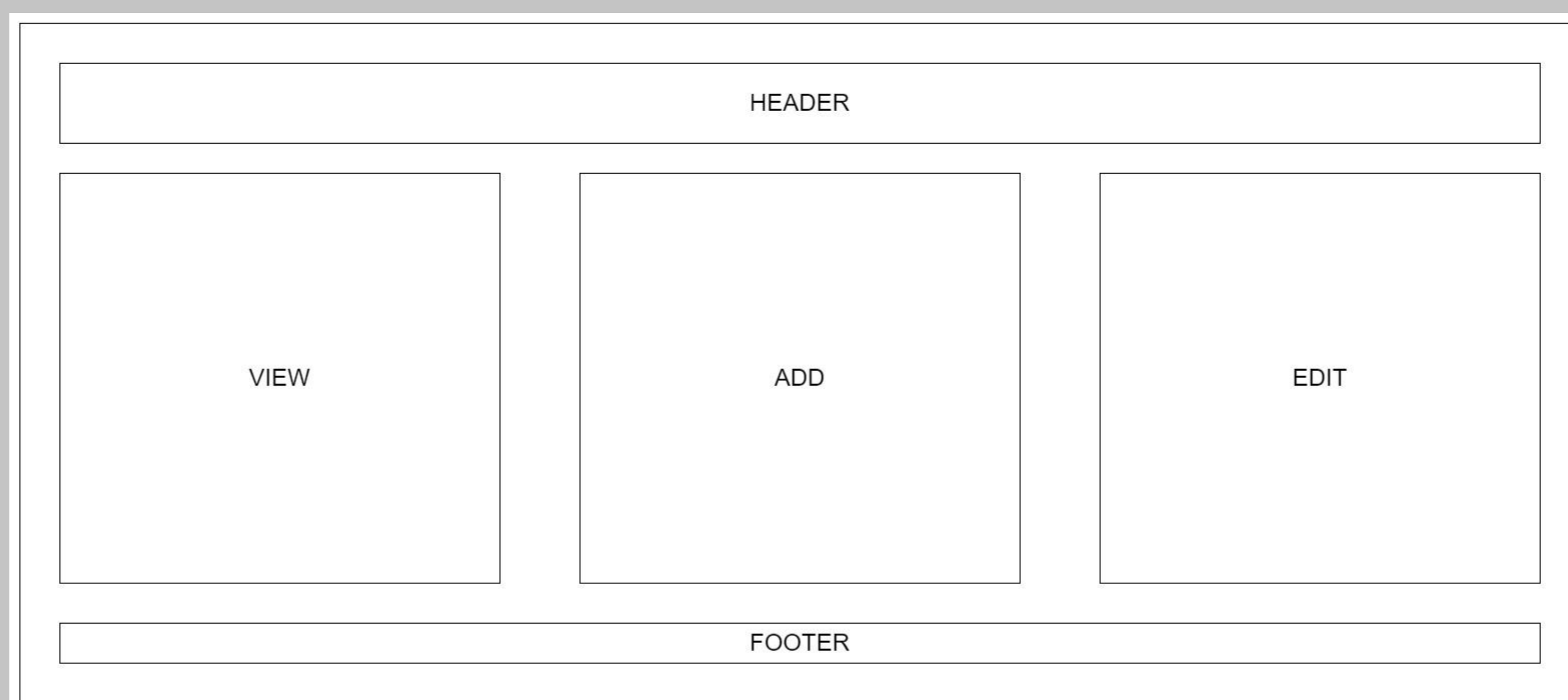
HTML, CSS, JavaScript and jQuery were the core building blocks used to create the structure, style and functionality of this SPA, chosen for their compatibility with modern web development, and their ability to load content dynamically within the single page application architecture.



Corey Richardson
github.com/corey-richardson/ArrowTrack

RESPONSIVE WEB DESIGN (RWD)

A Responsive Web Design and a Mobile-First approach to development was employed to ensure that the web application remains usable and accessible across a variety of screen sizes to enhance the users experience when using the tool.



ArrowTrack: Inventory Managemnt System

[View the Inventory](#) | [Add a New Item](#) | [Edit an Existing Item](#)

View the Inventory

AAE Freakshow Launcher – Widewell, £162.50 x 1

Great condtion

RH

Easton ACC Arrow (Bent) – Widewell, £18.00 x 1

Unsafe condtion

28", 3-04/680

Easton ACC Arrows – Widewell, £18.00 x 11

Okay condtion

28", 3-04/680

PSE Lazer 2024 – Widewell, £732.00 x 1

Great condtion

RH, 40-50#, Black riser with White Limbs

PSE Stinger ATK – On Loan, £327.00 x 1

Good condtion

30-50#, RH, Charcoal

Scorpion Venom Cam And Serving Lube – YMCA Plymouth, £7.49 x 1

Great condtion

TRU Ball G.O.A.T Thumb Release Aid – YMCA Plymouth, £277.88 x 1

Great condtion

Grey, Medium

£1722.87 | Widewell: £1110.50 | On Loan: £327.00 | YMCA Plymouth: £285.37

Add a New Item

Item

Condition

Value (each)

Quantity

Location

Further Notes

Submit

Edit an Existing Item

Item to Edit

Check Out this item?

Remove this item?

Update item

Update Condition

Update Value (each)

Update Quantity

Update Location

Update Notes

Submit

“This project could be used by archers and archery clubs to track and help maintain the equipment they hold. This would also be useful to track the value of the inventory to assist in insurance calculations and track the items that may need replacing to help with budgeting.”

