Testing Documentation

Plan

The tests will be performed manually and cover the following categories:

1. Button functionality – do the buttons on each page do what they say? Including navigation buttons and the navbar.
2. Form functionality – do the forms work as expected? Can they be broken?
3. Appearance – are there any issues with the appearance of the site?
4. Responsiveness – does the site work properly on different screen sizes?

Each test will be performed on the following browsers: Google Chrome, Microsoft Edge (Chromium), Mozilla Firefox, Internet Explorer 11, Opera Touch, Safari iOS.

Button Functionality

Index Page
- Navbar items
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Select a Team button – when clicked should load Team Selection page
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Create a Team button – when clicked should load Team Creation page
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

Team Selection page
- Navbar items
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Select Team buttons – when clicked should load the Team Home page for the appropriate team
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Create a Team button – when clicked should load the Team Creation page
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

Team Creation page
- Navbar items
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Cancel button – when clicked should load the Team Selection page
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Submit Team button – when clicked should load the Team Selection page
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

Team Home page
- Navbar items
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- View Player List button – when clicked should load the Player List page for the appropriate team
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Create a Player button – when clicked should load the Player Creation page for the appropriate team
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Edit Team Line-up button – when clicked should load the Edit Line-up page for the appropriate team
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Edit Team Details button – when clicked should load the Edit Team page for the appropriate team
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- View Free Agents button – when clicked should load the Free Agents page
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Select a Different Team button – when clicked should load the Team Selection page
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

Player List page
- Navbar items
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Create a Player button – when clicked should load the Player Creation page for the appropriate team
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Free Agents button – when clicked should load the Free Agents page
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- View Player button – when clicked should load the Player Profile page for the appropriate player
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Table sort buttons – when clicked should sort the table column ascending and descending
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

Player Creation page
- Navbar items
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Cancel button – when clicked should load the Player List page for the appropriate team
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Submit Player button – when clicked should load the Player List page for the appropriate team
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

Player Profile page
- Navbar items
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Back to Players button – when clicked should load the Player List page for the appropriate team
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Edit Player button – when clicked should load the Edit Player page for the appropriate player
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Delete Player button – when clicked should reveal the Delete Player modal
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Modal buttons – the corner X and No go back buttons should close the modal, the Delete Player button should load the Player List page for the appropriate team
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

Edit Player page
- Navbar items
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Cancel button – when clicked should load the Player Profile page for the appropriate player
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Submit Changes button – when clicked should load the Player List page for the appropriate team
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

Edit Line-up page
- Navbar items
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Update Formation button – should reload the page
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Set line-up button – should reload the page
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Table sort buttons – when clicked should sort the table column ascending and descending
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- View Player button – when clicked should load the Player Profile page for the appropriate player
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

Edit Team page
- Navbar items
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Delete Team button – when clicked should load the Delete Team modal
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Cancel button – when clicked should load the Team Home page for the appropriate team
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Submit Changes button – when clicked should load the Team Home page for the appropriate team

- Google Chrome tested: working
- Microsoft Edge tested: working
- Mozilla Firefox tested: working
- Internet Explorer 11 tested: working
- Opera Touch tested: working
- Safari iOS tested: working

- Modal buttons – the corner X and No go back buttons should close the modal, the Delete Team button should load the Team Selection page
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

Free Agents page
- Navbar items
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- View Player button – when clicked should load the Free Agent Profile page for the appropriate player
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Table sort buttons – when clicked should sort the table column ascending and descending
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

Free Agent Profile page
- Navbar items
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Back to Free Agents button – when clicked should load the Free Agents page

- - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Edit Player button – when clicked should load the Edit Free Agent page for the appropriate player
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Delete Player button – when clicked should load the Delete Player modal
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Modal buttons – the corner X and No go back buttons should close the modal, the Delete Player button should load the Free Agents page
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

Edit Free Agent page
- Navbar items
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Cancel button – when clicked should load the Free Agent Profile page for the appropriate player
  - Google Chrome tested: working
  - Microsoft Edge tested: working
  - Mozilla Firefox tested: working
  - Internet Explorer 11 tested: working
  - Opera Touch tested: working
  - Safari iOS tested: working

- Submit Changes button – when clicked should load the Free Agents page

- Google Chrome tested: working
- Microsoft Edge tested: working
- Mozilla Firefox tested: working
- Internet Explorer 11 tested: working
- Opera Touch tested: working
- Safari iOS tested: working

Form Functionality

Team Creation Form

The form has been tested in the browsers listed above and is working. The created team appears on the Team Selection page, with all data correct. There are no required inputs, so the form can be left blank when submitted

Team Name – text input, is limited to a max of 30 characters, default is blank.
Year Established – number input, max number is 9999, default is blank.
Nation – drop-down, successfully pulls data from Nations collection, default is …
Manager Name – text input, is limited to a max of 30 characters, default is blank.
Formation – drop-down, successfully pulls data from Formations collection, default is 4-4-2.
Team Emblem URL – text input, no character limit, default is blank.
First Colour – colour picker, does not work in Internet Explorer 11, default is black.
Second Colour – colour picker, does not work in Internet Explorer 11, default is black.

Team Edit Form

Same inputs as the Team Creation form. The form has been tested on the browsers listed above is working. All values updated successfully and are reflected on the Team Selection page. The form successfully defaults to the previously submitted values. The Delete Button within the modal is also working.

Player Creation Form

The form has been tested in the browsers listed above and is working. The created player appears on the Player List for the correct team. All data is correct there and on their player profile page. There are no required inputs, so the form can be left blank when submitted.

First Name – text input, max 30 characters, default is blank
Last Name – text input, max 30 characters, default is blank
Shirt Number – number input, min is 1, max is 99, default is blank
Nation – drop-down, successfully pulls data from Nations collection, default is …
Team – disabled input, is preselected as the team for which the player is being created
Age – number input, max number is 9999, default is blank.
Height – number input, max number is 9999, default is blank.
Weight – number input, max number is 9999, default is blank.
Foot – drop-down, can select …, Left, Right, or Either. Default is ...
Best Position – drop-down, successfully pulls data from Positions collection, default is ...
Second Position – drop-down, successfully pulls data from Positions collection, default is ...
Injured – checkbox, default is unchecked
Attributes (attacking, technique, physical, defending, stamina, speed) – all number inputs, with min 1, max 20, default is blank

Notes – textarea, max of 500 characters, default is blank
Player Image URL – text input, no limit, default is blank

<u>Player Edit Form/Free Agent Edit Form</u>

Same inputs as the Player Creation form. The form has been tested on the browsers listed above is working. All values updated successfully and are reflected on the Player List/Profile pages. The form successfully defaults to the previously submitted values.

Changes to the Creation form:
The Team input is now a drop-down for all Teams, successfully pulling data from the Teams collection. This working, and "moves" the player to the Player List of whichever team they are set to.

The Player Profile page features the Delete Player button with a modal, this is working. For Free Agents, this is located on the Free Agent Edit form and is also working.

<u>Line-up Page Forms</u>

The line-up creator includes two forms:
A drop-down for selecting a formation – same as the one on the Team Creation/Edit pages
A series of 11 drop-downs for selecting players from the team.

Both are working. The changes are reflected on screen when the page reloads – the formation changes to match the submitted formation, and the names and shirt numbers of the selected players appear in the correct positions. If the page is reloaded, the data remains.
The player drop-downs should only show players that belong to the team who are not injured, this has been checked and is working.

Appearance

<u>General Observations:</u>

- The button icons usually take a second or two to load, especially the larger ones.
- The selected colours of the team change the background colour of their team card on the Team Selection page, so selecting dark colours can make the text harder to read.
- Team images appear on the cards and are cropped to fit. It's possible to not select a team image, which leaves the area of the card blank and shows the background colours instead. In Internet Explorer 11, the images are stretched to fit instead.
- More text for the team name, nation and/or manager name changes the size of the card, which can push the card positioned below it lower down the page.
- The Team Home page uses the name of the team extensively, so longer names do impact the layout of the page on some screen sizes.
- The team name is also shown on the navbar as the button for accessing that team's home page, so the size of the button is directly impacted by the length of the name. A team with a blank name has a button that is difficult to click on the navbar.
- Long team names without spaces appear behind content on certain pages where it is included in the header.
- The Player/Free Agent Profile pages can include player images. When an image is not used, that area of the page is blank and shows the background. The images look good, and are cropped if necessary. Only in Internet Explorer 11 are the images stretched.

- The line-up page has a number of visual features. First of all, the football pitch graphic is high res and looks good. The position markers are the right size and stand out, though the shirt numbers that appear may not be visible if the team second colour is the same as the first colour. JavaScript sets a class on the position lineup labels that changes their colour depending on which part of the pitch they belong – this is working well and updates when the formation is changed.
- The Team Home Page and Player Profile pages show a thumbnail of the team emblem, which keeps its aspect ratio and looks fine. If a team emblem is not selected, the area instead appears as a white dot/line/box depending on the browser.

Responsiveness

- The site has been tested using the Chrome Developer tools to simulate different resolutions and devices, and I have also used my smartphone and tablet to test this. I have made sure that each page looks good and is usable on each screen size. Bootstrap has helped achieve this, as well as use of relative and viewscreen sizing.
- The navbar burger menu is working.
- I have taken into account the ability to rotate one's screen; some pages look better in portrait and others in landscape.
- Use of Bootstrap Table means that all tables on the site have a scrollbar for viewing on smaller screens.
- The team emblems and player images are reduced in size considerably on smaller screens.
- On the line-up page, the football pitch graphic is fixed to the height of the viewscreen, which causes varying results and does change the aspect ratio. This is intentional. The positions on the pitch are relative so should stay consistent on different devices.
- The line-up page is optimised for a standard 24 inch 1080p screen – with the formation and line-up halves of the screen showing as the same size. But it is still usable on other sizes.
- As stated above, longer team and player names can impact the layout of the page on smaller screens.

Bonus Interesting Bug:

The line-up page has a formation screen and a form next to it to set players to each position. Each circle on the formation corresponds with a drop-down. Before setting the line-up, I discovered that every player was being added to each and every position, but only for a newly created team. Why was this? To add a player to the formation, the if statement compares the player string id that is created when the form is submitted and the team position value that is created when the form is submitted. If they are the same, the player is added to the position. Because the line-up had yet to be submitted, neither value existed and thus were both the same. This meant that every player on the team qualified for that position and so appeared for every position. To fix this, I had to adjust the if statement slightly to check that the team position value actually existed first. If it didn't, no players should qualify.