Design document

By Harry Thornburrow

# Design solution

## Planning

### Scope of project

I plan to include all of what I had in the planning document for the last assessment. Being:

#### Purpose and goals

* To spread Marks chess information
* Make people aware of the prices.
* Marks contact information
* Most asked questions section.

#### Business goals

* The site must be welcoming.
* It must be accommodating to phones and desktop.
* It all needs to be functional as intended. Or if not hard to tell

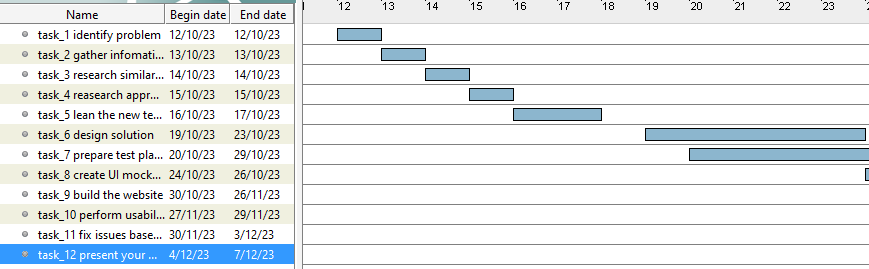
#### User stories

When you enter the site, it should display the information people are looking for and be able to captivate your attention. Then it should be to easily direct you to the page you want to go too.

#### Non-functional requirements

* Usability is important because usability means that it can be used in different environments while still working.
* Performance is also important because it is a small site so it shouldn’t be slow. Performance means loading time so let’s say when you get on a page it should load within 3 seconds that’s performance.
* Scalability because everyone should be able to read it. Scalability means that it should be to scale with the resolution, and everything should adjust to scale.
* Availability just like scalability because everyone should be able to use it. Availability means that it should be accessible on multiple devices and different browsers like chrome or Firefox.
* Reliability because the site should be consistent and always the same. Reliability means that it should be consistent and always work the same.

### Time plan



A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

You can also look at it directly through Harrys\_gantt file.

### Estimated project costs

|  |  |  |  |
| --- | --- | --- | --- |
|  | hourly | monthly | Overall for year |
| Developer charges | $50 | x | $2000 |
| Hosting charges | x | $10 | $120 |
| Domain charges | x | x | $40 |

## System design

### Functional decomposition

Firstly, I have the navigation that needs to be able to move between pages and be easy to understand. This means that the links need to work when clicked and is obvious that they are links.

Second all pages need to be responsive to a change in resolution and still look good. This means that all objects in the site need to be able to change depending on the resolution.

Thirdly the slide show needs to work, meaning that it will need to show the correct slides when moving and that the buttons are obvious. This means that it needs to be easy to identify as a slide show and work like one being that the arrows are functional.

Lastly the form needs to work and be responsive which entails it being able to make sure that the form sections have been filled in correctly. This also means that it needs to have all input fields working and make them change depending on resolution.

### Non-functional design considerations

I will be limiting the images that are on the site and each page so that there will be better performance and maintainability for the site.

I will also be using mainly black and grey for colors to help the availability of the site. I will also be making it designed to be responsive to different resolutions.

I will also make it very intuitive to improve usability and lastly use common fonts and code so that it will have better compatibility with multiple browsers.

### Site map

A diagram of a website

Description automatically generated

### Wireframes

For the wireframes find the file named Harrys\_chess\_wireframes.pdf in the folder

# Prepare a test plan.

## Overall test plan.

I plan to do the tests with multiple testers and do them myself as well. I plan to test more than just what I am doing with the test cases, but I plan to do them while building the site. I also plan to check with the client and stakeholders about if the site is working properly.

### UAT test cases

**Test Case ID:** UA1

**Test Case Title:** UAT - Site Functions

**Test Objective:** to confirm that the slideshow works as intended both visually and functionally.

**Test Environment:**

* Desktop computers

**Preconditions:**

1. The website is accessible.

**Test Steps:**

1. Open website.
2. Confirm that the slideshow has no visual issues.
3. Click the right arrow on the slideshow.
4. confirm that there are no visual issues.
5. repeat step 3 and 4 till it starts repeating.
6. Click the left arrow on the slideshow.
7. repeat steps 6 and 4 till it starts repeating.

**Expected Results:**

* The slideshow has no visual issues.
* The slides repeat when going to the right.
* The slides repeat when going to the left.

**Test Pass Criteria:**

* All steps in the test case are executed successfully.
* Expected results are met on the website.

**Test Case Status:** Pass/Fail

**Notes:**

* If any discrepancies are found, they should be reported as defects.

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| --- | --- | --- | --- |
| **Test Case ID** | **Test Objective** | **Preconditions** | **Test Steps** |
| UA1 | to confirm that the slideshow works as intended both visually and functionally. | 1. The website is accessible. | 1. Open website. 2. Confirm that the slideshow has no visual issues. 3. Click the right arrow on the slideshow. 4. confirm that there are no visual issues. 5. repeat step 3 and 4 till it starts repeating. 6. Click the left arrow on the slideshow. 7. repeat steps 6 and 4 till it starts repeating. |

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| --- | --- | --- | --- |
| **Test Pass Criteria** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| * All steps in the test case are executed successfully. * Expected results are met on the website. | * The slideshow has no visual issues. * The slides repeat when going to the right. * The slides repeat when going to the left. |  |  |

**Test Case ID:** UA2

**Test Case Title:** UAT - Site Functions

**Test Objective:** to confirm that the form works as intended both visually and functionally.

**Test Environment:**

* Desktop computers

**Preconditions:**

1. The website is accessible.

**Test Steps:**

1. Open website.
2. Go to contact mark page.
3. Enter text in the fields.
4. As you enter the fields click submit to check validation.
5. When all fields are filled submit and check it clears the fields.

**Expected Results:**

* The form has no visual issues.
* The forms fields all work.
* The error validation works.

**Test Pass Criteria:**

* All steps in the test case are executed successfully.
* Expected results are met on the website.

**Test Case Status:** Pass/Fail

**Notes:**

* If any discrepancies are found, they should be reported as defects.

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| --- | --- | --- | --- |
| **Test Case ID** | **Test Objective** | **Preconditions** | **Test Steps** |
| UA1 | to confirm that the form works as intended both visually and functionally. | 1. The website is accessible. | 1. Open website. 2. Go to contact mark page. 3. Enter text in the fields. 4. As you enter the fields click submit to check validation. 5. When all fields are filled submit and check it clears the fields. |

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| --- | --- | --- | --- |
| **Test Pass Criteria** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| * All steps in the test case are executed successfully. * Expected results are met on the website. | * The form has no visual issues. * The forms fields all work. * The error validation works. |  |  |

### Usability test cases

**Test Case ID:** U1

**Test Case Title:** Usability - Site visuals

**Test Objective:** to confirm that the responsiveness works as intended both visually on all pages.

**Test Environment:**

* Desktop computers

**Preconditions:**

1. The website is accessible.

**Test Steps:**

1. Open website.
2. Stay on home page.
3. Change resolution to tablet resolution.
4. Check the visuals of the page.
5. Change resolution to phone resolution.
6. Check the visuals of the page.

**Expected Results:**

* The page has no visual issues on tablet resolution.
* The page has no visual issues on phone resolution.

**Test Pass Criteria:**

* All steps in the test case are executed successfully.
* Expected results are met on the website.

**Test Case Status:** Pass/Fail

**Notes:**

* If any discrepancies are found, they should be reported as defects.

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| --- | --- | --- | --- |
| **Test Case ID** | **Test Objective** | **Preconditions** | **Test Steps** |
| U1 | to confirm that the responsiveness works as intended both visually on all pages. | 1. The website is accessible. | 1. Open website. 2. Stay on home page. 3. Change resolution to tablet resolution. 4. Check the visuals of the page. 5. Change resolution to phone resolution. 6. Check the visuals of the page. |

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| --- | --- | --- | --- |
| **Test Pass Criteria** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| * All steps in the test case are executed successfully. * Expected results are met on the website. | * The page has no visual issues on tablet resolution. * The page has no visual issues on phone resolution. |  |  |

**Test Case ID:** U2

**Test Case Title:** Usability - Site visuals

**Test Objective:** to confirm that the responsiveness works as intended both visually on all pages.

**Test Environment:**

* Desktop computers

**Preconditions:**

1. The website is accessible.

**Test Steps:**

1. Open website.
2. Go to the tournament page.
3. Change resolution to tablet resolution.
4. Check the visuals of the page.
5. Change resolution to phone resolution.
6. Check the visuals of the page.

**Expected Results:**

* The page has no visual issues on tablet resolution.
* The page has no visual issues on phone resolution.

**Test Pass Criteria:**

* All steps in the test case are executed successfully.
* Expected results are met on the website.

**Test Case Status:** Pass/Fail

**Notes:**

* If any discrepancies are found, they should be reported as defects.

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| --- | --- | --- | --- |
| **Test Case ID** | **Test Objective** | **Preconditions** | **Test Steps** |
| U2 | to confirm that the responsiveness works as intended both visually on all pages. | 1. The website is accessible. | 1. Open website. 2. Go to the tournament page. 3. Change resolution to tablet resolution. 4. Check the visuals of the page. 5. Change resolution to phone resolution. 6. Check the visuals of the page. |

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| --- | --- | --- | --- |
| **Test Pass Criteria** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| * All steps in the test case are executed successfully. * Expected results are met on the website. | * The page has no visual issues on tablet resolution. * The page has no visual issues on phone resolution. |  |  |

**Test Case ID:** U3

**Test Case Title:** Usability - Site visuals

**Test Objective:** to confirm that the responsiveness works as intended both visually on all pages.

**Test Environment:**

* Desktop computers

**Preconditions:**

1. The website is accessible.

**Test Steps:**

1. Open website.
2. Go to the 1on1 page.
3. Change resolution to tablet resolution.
4. Check the visuals of the page.
5. Change resolution to phone resolution.
6. Check the visuals of the page.

**Expected Results:**

* The page has no visual issues on tablet resolution.
* The page has no visual issues on phone resolution.

**Test Pass Criteria:**

* All steps in the test case are executed successfully.
* Expected results are met on the website.

**Test Case Status:** Pass/Fail

**Notes:**

* If any discrepancies are found, they should be reported as defects.

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| --- | --- | --- | --- |
| **Test Case ID** | **Test Objective** | **Preconditions** | **Test Steps** |
| U3 | to confirm that the responsiveness works as intended both visually on all pages. | 1. The website is accessible. | 1. Open website. 2. Go to the 1on1 page. 3. Change resolution to tablet resolution. 4. Check the visuals of the page. 5. Change resolution to phone resolution. 6. Check the visuals of the page. |

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| --- | --- | --- | --- |
| **Test Pass Criteria** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| * All steps in the test case are executed successfully. * Expected results are met on the website. | * The page has no visual issues on tablet resolution. * The page has no visual issues on phone resolution. |  |  |

**Test Case ID:** U4

**Test Case Title:** Usability - Site visuals

**Test Objective:** to confirm that the responsiveness works as intended both visually on all pages.

**Test Environment:**

* Desktop computers

**Preconditions:**

1. The website is accessible.

**Test Steps:**

1. Open website.
2. Go to the contact mark page.
3. Change resolution to tablet resolution.
4. Check the visuals of the page.
5. Change resolution to phone resolution.
6. Check the visuals of the page.

**Expected Results:**

* The page has no visual issues on tablet resolution.
* The page has no visual issues on phone resolution.

**Test Pass Criteria:**

* All steps in the test case are executed successfully.
* Expected results are met on the website.

**Test Case Status:** Pass/Fail

**Notes:**

* If any discrepancies are found, they should be reported as defects.

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| --- | --- | --- | --- |
| **Test Case ID** | **Test Objective** | **Preconditions** | **Test Steps** |
| U4 | to confirm that the responsiveness works as intended both visually on all pages. | 1. The website is accessible. | 1. Open website. 2. Go to the contact mark page. 3. Change resolution to tablet resolution. 4. Check the visuals of the page. 5. Change resolution to phone resolution. 6. Check the visuals of the page. |

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| --- | --- | --- | --- |
| **Test Pass Criteria** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| * All steps in the test case are executed successfully. * Expected results are met on the website. | * The page has no visual issues on tablet resolution. * The page has no visual issues on phone resolution. |  |  |

**Test Case ID:** U5

**Test Case Title:** Usability - Site visuals

**Test Objective:** to confirm that the responsiveness works as intended both visually on all pages.

**Test Environment:**

* Desktop computers

**Preconditions:**

1. The website is accessible.

**Test Steps:**

1. Open website.
2. Go to the FAQ page.
3. Change resolution to tablet resolution.
4. Check the visuals of the page.
5. Change resolution to phone resolution.
6. Check the visuals of the page.

**Expected Results:**

* The page has no visual issues on tablet resolution.
* The page has no visual issues on phone resolution.

**Test Pass Criteria:**

* All steps in the test case are executed successfully.
* Expected results are met on the website.

**Test Case Status:** Pass/Fail

**Notes:**

* If any discrepancies are found, they should be reported as defects.

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| --- | --- | --- | --- |
| **Test Case ID** | **Test Objective** | **Preconditions** | **Test Steps** |
| U5 | to confirm that the responsiveness works as intended both visually on all pages. | 1. The website is accessible. | 1. Open website. 2. Go to the FAQ page. 3. Change resolution to tablet resolution. 4. Check the visuals of the page. 5. Change resolution to phone resolution. 6. Check the visuals of the page. |

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| --- | --- | --- | --- |
| **Test Pass Criteria** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| * All steps in the test case are executed successfully. * Expected results are met on the website. | * The page has no visual issues on tablet resolution. * The page has no visual issues on phone resolution. |  |  |

### Cross-browser test cases

**Test Case ID:** C1

**Test Case Title:** Cross Compatibility - Desktop Browsers

**Test Objective:** to confirm that the site works as intended both visually and functionally across different browsers.

**Test Environment:**

* Desktop computers
* Browsers: Google Chrome, Mozilla Firefox, Microsoft Edge

**Preconditions:**

1. The website is accessible.

**Test Steps:**

1. Open Google Chrome browser.
2. Navigate to the website.
3. confirm that the homepage loads without any functional and visual issues.
4. Check that all text, images, and interactive elements are displayed correctly.
5. Test that the links in the navigation menu are all functional.
6. Confirm that the contact mark form is visible and functional.

**Expected Results:**

* The website loads without any layout issues in Google Chrome.
* All elements are displayed correctly.
* The navigation menu functions as expected.
* The contact mark form is visible and functional.

**Test Pass Criteria:**

* All steps in the test case are executed successfully.
* Expected results are met in the browser.

**Test Case Status:** Pass/Fail

**Notes:**

* If any discrepancies are found, they should be reported as defects.

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| --- | --- | --- | --- |
| **Test Case ID** | **Test Objective** | **Preconditions** | **Test Steps** |
| C1 | to confirm that the site works as intended both visually and functionally across different browsers. | 1. The website is accessible. | 1. Open Google Chrome browser. 2. Navigate to the website. 3. confirm that the homepage loads without any functional and visual issues. 4. Check that all text, images, and interactive elements are displayed correctly. 5. Test that the links in the navigation menu are all functional. 6. Confirm that the contact mark form is visible and functional. |

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| --- | --- | --- | --- |
| **Test Pass Criteria** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| * All steps in the test case are executed successfully. * Expected results are met in the browser. | * The website loads without any layout issues in Google Chrome. * All elements are displayed correctly. * The navigation menu functions as expected. * The contact mark form is visible and functional. |  |  |

**Test Case ID:** C2

**Test Case Title:** Cross Compatibility - Desktop Browsers

**Test Objective:** to confirm that the site works as intended both visually and functionally across different browsers.

**Test Environment:**

* Desktop computers
* Browsers: Google Chrome, Mozilla Firefox, Microsoft Edge

**Preconditions:**

1. The website is accessible.

**Test Steps:**

1. Open Mozilla Firefox browser.
2. Navigate to the website.
3. confirm that the homepage loads without any functional and visual issues.
4. Check that all text, images, and interactive elements are displayed correctly.
5. Test that the links in the navigation menu are all functional.
6. Confirm that the contact mark form is visible and functional.

**Expected Results:**

* The website loads without any layout issues in Mozilla Firefox.
* All elements are displayed correctly.
* The navigation menu functions as expected.
* The contact mark form is visible and functional.

**Test Pass Criteria:**

* All steps in the test case are executed successfully.
* Expected results are met in the browser.

**Test Case Status:** Pass/Fail

**Notes:**

* If any discrepancies are found, they should be reported as defects.

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| --- | --- | --- | --- |
| **Test Case ID** | **Test Objective** | **Preconditions** | **Test Steps** |
| C1 | to confirm that the site works as intended both visually and functionally across different browsers. | 1. The website is accessible. | 1. Open Mozilla Firefox browser. 2. Navigate to the website. 3. confirm that the homepage loads without any functional and visual issues. 4. Check that all text, images, and interactive elements are displayed correctly. 5. Test that the links in the navigation menu are all functional. 6. Confirm that the contact mark form is visible and functional. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Pass Criteria** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| * All steps in the test case are executed successfully. * Expected results are met in the browser. | * The website loads without any layout issues in Mozilla Firefox. * All elements are displayed correctly. * The navigation menu functions as expected. * The contact mark form is visible and functional. |  |  |

# create UI Prototypes

For the Prototypes find the file named Harrys\_chess\_prototype.pdf in the folder