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A website to introduce people to the sport and study of Historical European Martial Arts

HEMA

Milestone 5

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# **Milestone 5: Server Side Programming**

## URL of the website

## <http://students.bcitdev.com/A00980505/G2/index.php>

## List of all the items completed

1. The provided PHP script was integrated with the website
2. Users can register themselves on the website
3. A registered user can login / logout from the website
4. Once logged in, the user’s name is displayed on the website
5. Forum was added to About us page for users to post / view comments

## User Registration

Users are now able to sign up and login with their username and password on the Login/signup page. If the user tries to sign up with an already in use username or if the user is trying to login with an invalid username, a warning message will be displayed underneath the forums. Both forms are still being validated on the client side with JavaScript.



Login/Signup

## User authentication

After the user has logged in, the Login/Sign Up button will change to the Logout button. To show that the user has logged on, their name will be displayed beside the Logout. To logout, the user will simply click the Logout button and will be redirected back to the home page.



After Registration



Before Registration

## Server side functions

A user forum was added to the About us page alongside the contact us form. The contact us form is for users who wish to get in touch with us regarding any comments about the website. The user form is for anyone who wished to discuss Hema with others. User do need to be logged to view or post any comments.

## Additional work/Changes

The email input field on the register form was replaced with login (username), first name and last name. Also, the email input field on the login form was replaced with login. This change was necessary to properly integrate the provided PHP script with the website. All the pages needed to be changed from html file type to PHP for the PHP code to function properly.

# Appendix 4

# **Milestone 4: Deployed JavaScript-enabled site – validated, tested**

## URL of the website

## <http://students.bcitdev.com/A00980505/G2/index.html>

## List of all the items completed

1. Input requirements were formed for each field.
2. Tables were created for the validation requirements and testing.
3. Client-side validation was implemented to all three forms.
4. The forums were tested using multiple classmates.
5. Two widgets were added to the website.
6. The website was tested with JavaScript disabled.

## Defining validation requirements

|  |  |  |
| --- | --- | --- |
| FORM on page: About Us | |  |
| Field ID | Data Format or RegExp | Explanation |
| Name: | Only upper or lower case letters, space is also allowed | A normal name consists of only letters. The space allows the user to distinguish between first and last name. |
| Email: | Alphanumeric or the symbols !@#%^&\*\_ (followed by) @ alphanumeric (followed by) . alphanumeric | This is the standard format for an email. |
| Comment: | Only Alphanumeric and the symbols !@#%^&\*\_ are allowed | Character other then !@#%^&\*\_ are not allowed so that no malicious client can send invalid data. |

|  |  |  |
| --- | --- | --- |
| FORM on page: Login/Signup | |  |
| Field ID | Data Format or RegExp | Explanation |
| Email Address: | Alphanumeric or the symbols !@#%^&\*\_ (followed by) @ alphanumeric (followed by) . alphanumeric | This is the standard format for an email. |
| Password: | Minimum 8 characters, must have at least one capital and one number, alphanumeric and !@#%^&\*\_ symbols are allowed | This combination makes for a strong password making harder for hackers to get in to user’s account. |

## Implementing validation requirements

The signup form, login forum and the comment forum have been validated according to the requirements described in the two tables above. If the user enters character like angle brackets, semicolon, forward slash and equal sign, the form will not validate and no data will be sent to the server. This prevents any wrongful manipulation of the server. The forms are validated upon submission and feedback is provided using on-form error messages.

|  |  |  |
| --- | --- | --- |
| TEST DOCUMENTATION for FORM on page: Login/Signup | | |
| FIELD LEVEL TESTING | | |
| Field ID | Problem | Improvements made |
| Password / Confirm password | While is user is setting up a password, they are not aware of the conditions set for a valid password. They only come across these conditions if they submit a invalid password. | The widget tooltip is used to help user understand what value is excepted as a password. |

## Testing form

## JavaScript or jQuery third party widget

Google maps was added to the Hema in BC page. It shows the locations of the HEMA academy in the lower mainland. It provides user with more engaging interface to learn about how they can get involved with HEMA in their area. The tooltip was used only on the signup form. It makes the form feel more responsive and provides real time feedback to the user about the minimum password requirements. Tooltip is not being used on the login form because users using that form have already signed up with a valid password.

## Testing with JavaScript disabled

All three forms were tested with JavaScript disabled and were found to submit data without any issues and when tested again with the inclusion of the widgets, the forms still work.

## Publish site and test

The website and the JavaScript functions behaved as excepted when the site was hosted on the server. No errors were found during testing.

## Additional work/Changes

jQuery is now being used to hide or show the div elements on the HEMA styles page and it was also implemented for the about HEMA page. This was done so that the previous JavaScript code in the HEMA style page could be moved over to its own file with ease.

# Appendix 3

# **Milestone 3: Skeleton site with layout, tables and forms**

## URL of the prototype website

## <http://students.bcitdev.com/A00980505/G2/index.html>

## List of all the items completed

1. Organized all the files in the main folder called G2. All pages except index have their own folder. The main CSS file called base is in the style folder.
2. A prototype page has been created for every single page.
3. A single CSS file is used to style all the pages.
4. All the content in the header will have the font Cinzel and all the content in the body and footer will have the font Titillium web. Both fonts are linked from google fonts.
5. CSS link and hover pseudo-classes are used for main navigation hyperlinks.
6. The main navigation bar is configured with an unordered list.
7. A table is used to organize content on the About Us page.
8. The Login/signup page forms are using the action attribute to push the data to the website provided.
9. The CSS file and all the html pages have been validated with no errors at all through the W3 validator.

## Additional work/Issues/Changes

HEMA Styles page is one of the pages that is supposed to use JavaScript to change the content of the page. This has already been implemented. This was the only additional work that was done and since we were all working on the same CSS file, we did encounter issues while merging it using Git. It broke the code almost every time and we had to keep going back to fix it. There were also some changes made to the website. The contact and the meet the team pages were combined in to a single page called the aboutus page. The layout on the About HEMA page, Style page and HEMA in BC page was changed slightly. Now the images/videos are on top, with text underneath to better match the homepage. The sitemap page was created. Finally, the login and signup button were combined into a single button called login/signup. All these changes have been documented in appendix 2.

## Documentation of Work

Below are three screenshots that include the front page, the about us page with a table and the login/signup page with the required form.



Front page

****

Aboutus page with the table



Login/Signup with the form

## A/B Testing

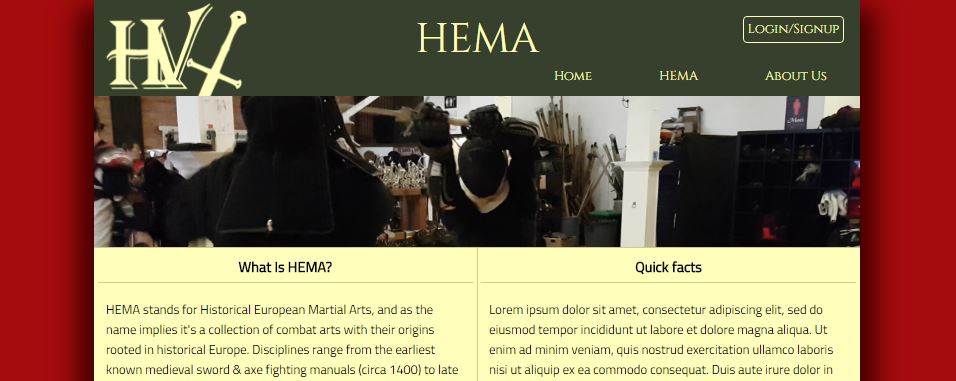
Two tests were conducted using A/B testing.

### Test 1

The first test was done using two different fonts sets. The following two pictures display the difference between them. In the picture one, font Tinos was used for header and font Dosis for the main body vs. and font Cinzel for the header and font Titillium Web for the main in the second picture.



Picutre one (font Tinos and Dosis)

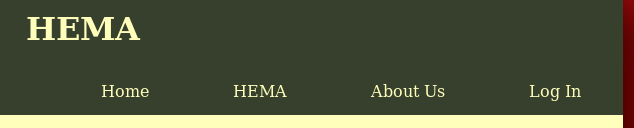


Picture two (font Cinzel and Titillium Web)

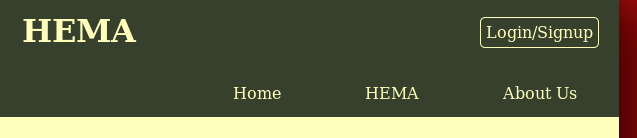
The test was conducted on five family members. Three out of five preferred the second font set (Cinzel and Titillium Web) and their main reason was that it has more of a historical feel to it than font Tinos and Dosis.

### Test 2

The navigation bar was used to conduct the second test. The login/sign up button was made part of the navigation list rather than a separate button on the top right corner. The following two images show the difference.



Login aligned with the nav bar



Login/Signup button in the top right corner

The same five people were used for this test. Everyone preferred having the login/signup button distinct and separate from the navigation bar as its purpose is quite different. The distinct location and border will help users to quickly sign in when they come to the site.

# Appendix 2

## **Milestone 2: Site Map and Page Design**

## Sitemap

# 

Home

HEMA

About us

Sitemap

About HEMA

HEMA Styles

HEMA in BC

Login/Signup

### Site map explained

Home

* The home page would have a picture representing HEMA, a quick introduction and some facts about HEMA.

HEMA (drop down menu, not an actual page)

* About HEMA
  + Brief overview of the history of modern HEMA and how it relates to historical arts
  + How Hema relates to and contrasts with Eastern Martial Arts as well as with Modern Martial Arts
* HEMA Styles
  + Describes various disciplines using a div whose content changes based on user’s selection from a list, by default gives a brief overview of the different styles
* HEMA in BC
  + A short list of local HEMA clubs, groups, schools etc.

About us

* This page will have information about the team members and a comment forum for the users to provide feedback.

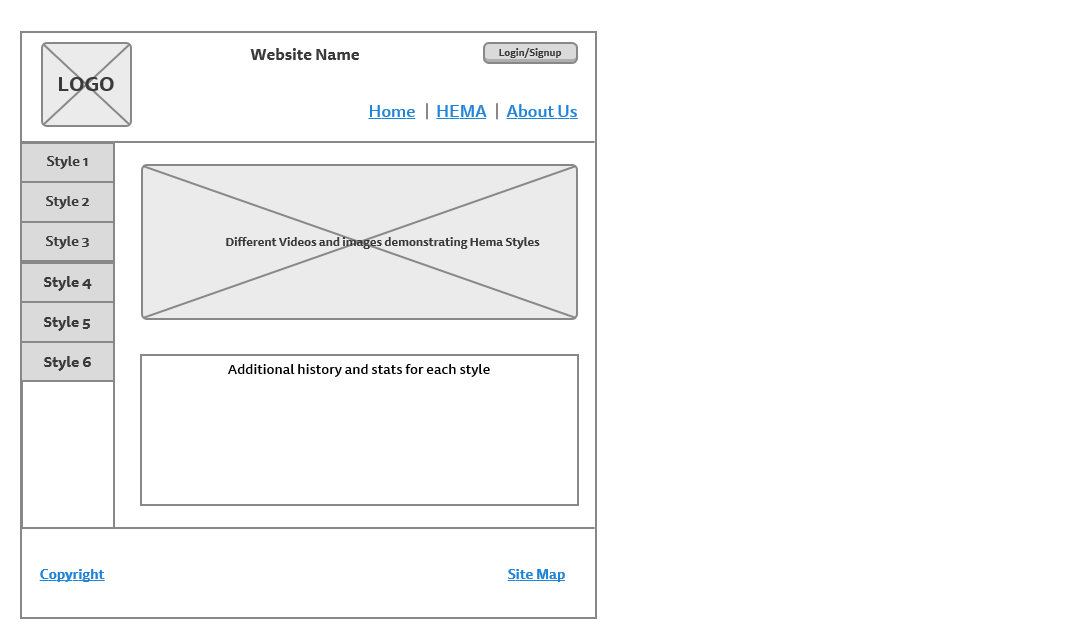
Login/Signup

* The button on the top right hand corner will take the user to the Login / Signup page. This page will be divided in to two sections, the left site to login and the right side to signup.

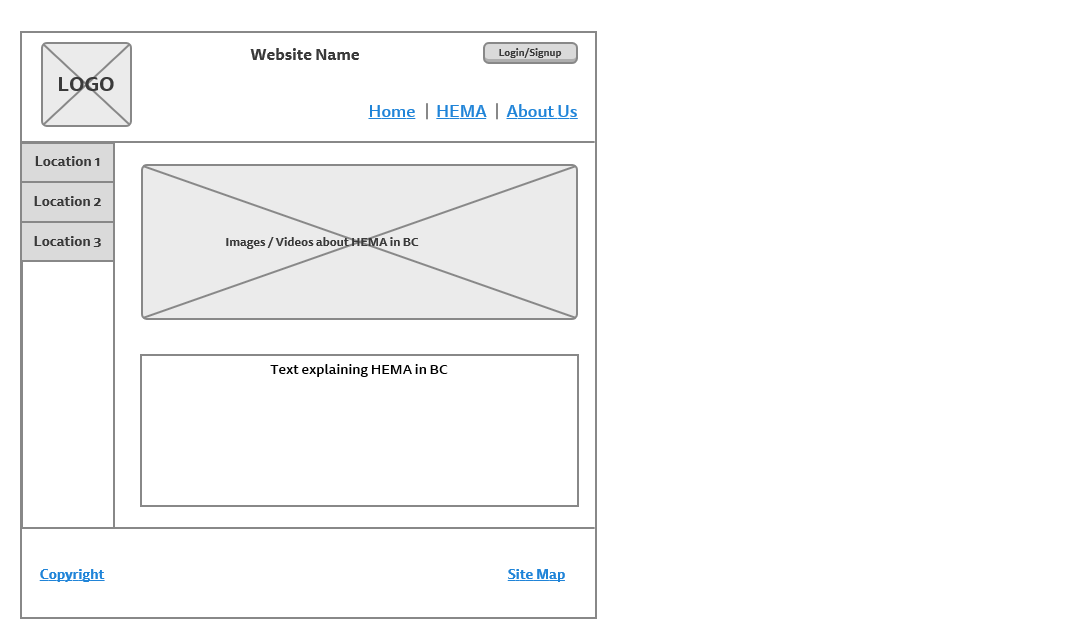
Sitemap

* This page will contain a link to all the pages using a list.

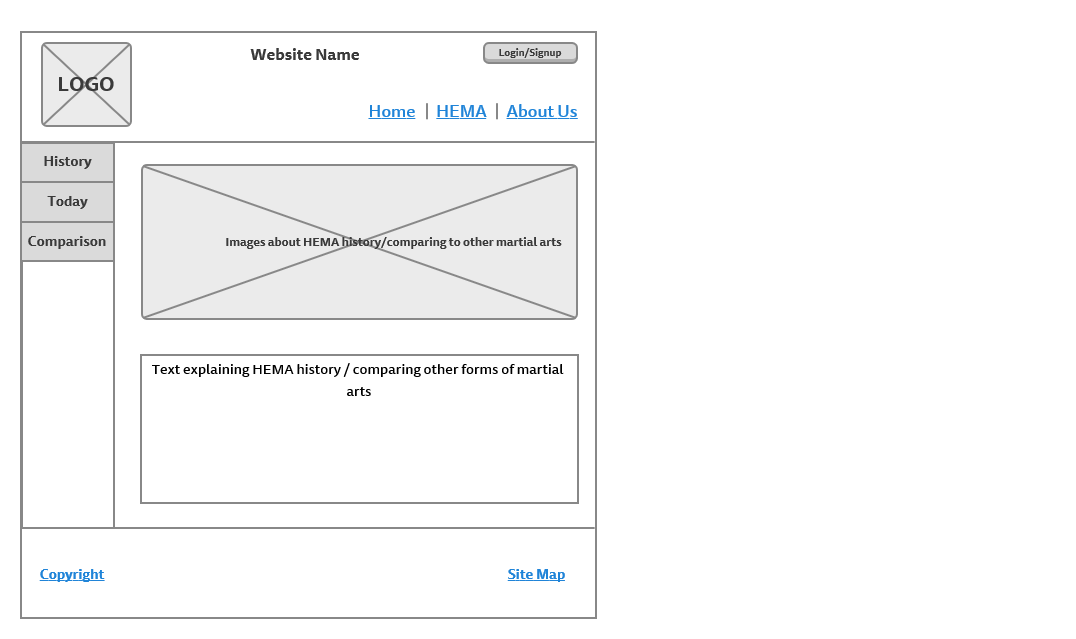
## Wireframe Page Layouts



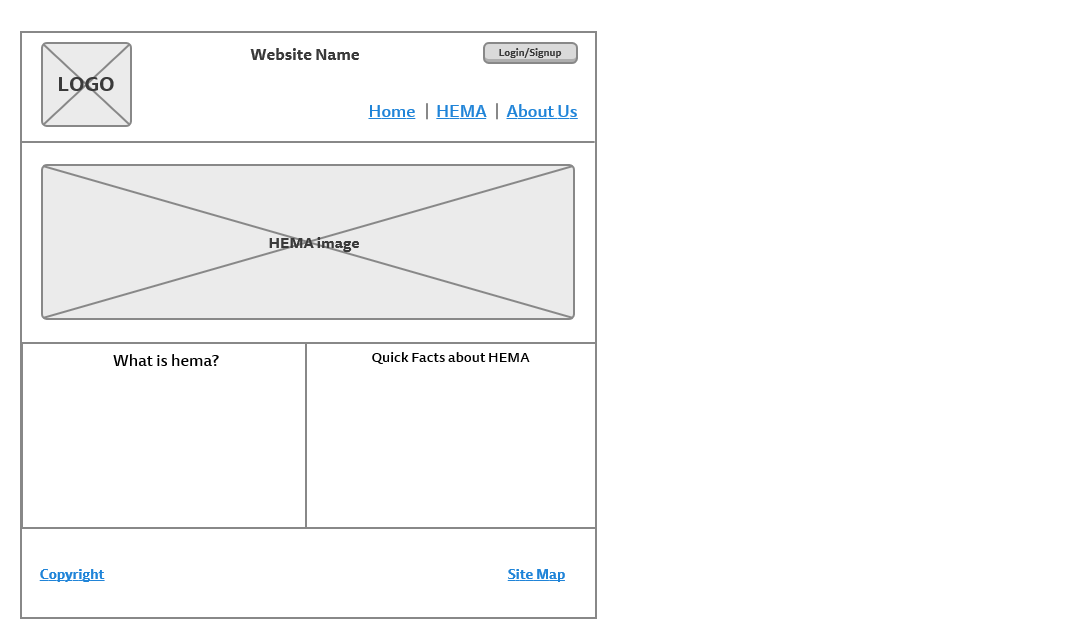
HEMA Styles page



HEMA in BC page



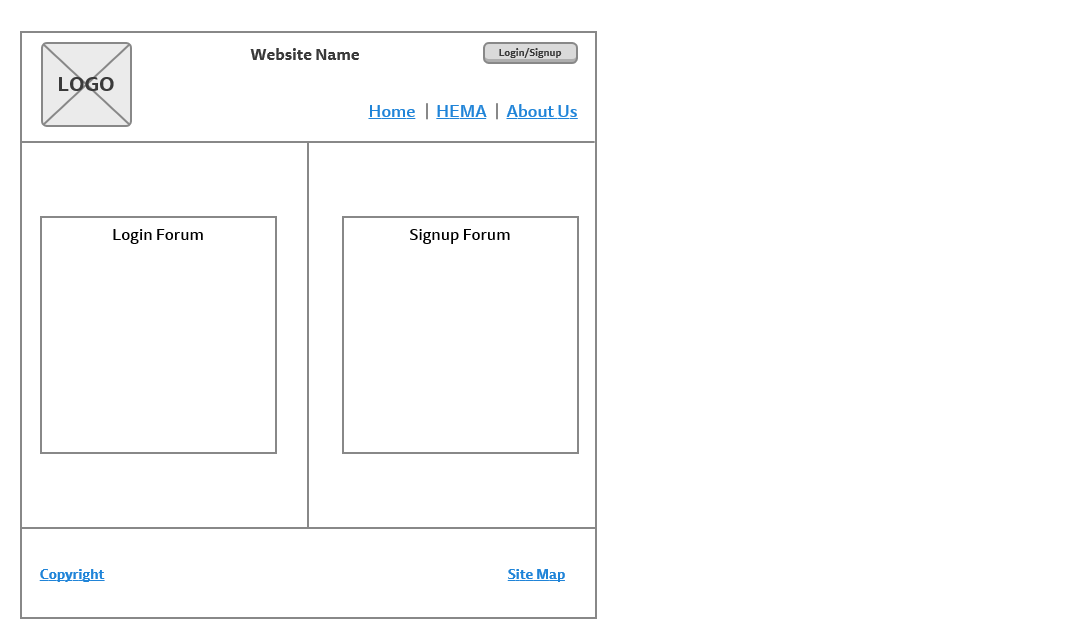
About HEMA page



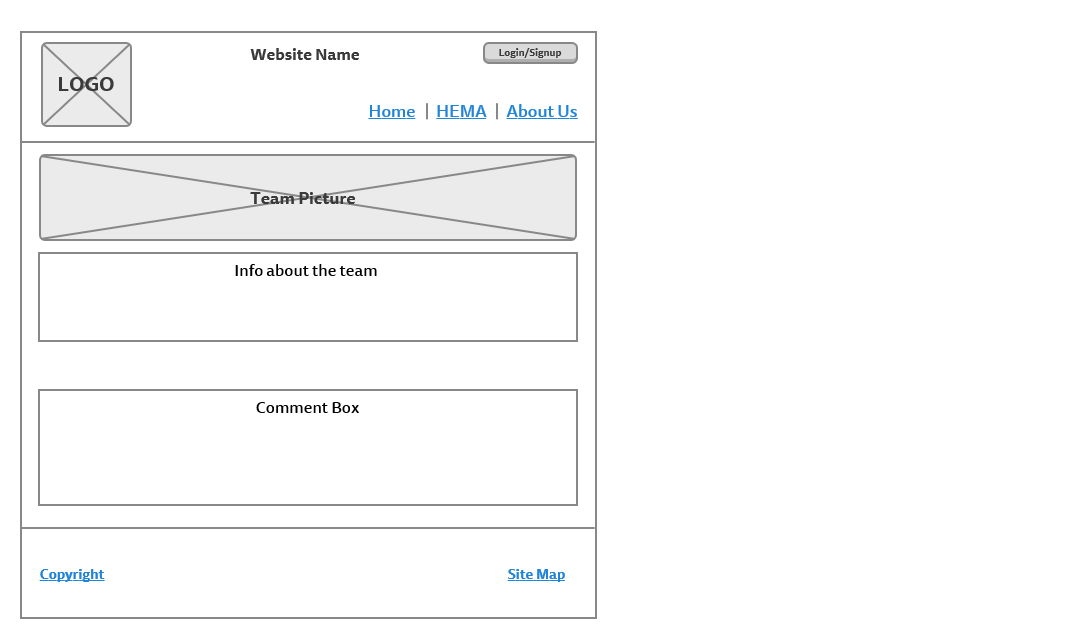
Home page



Sitemap page



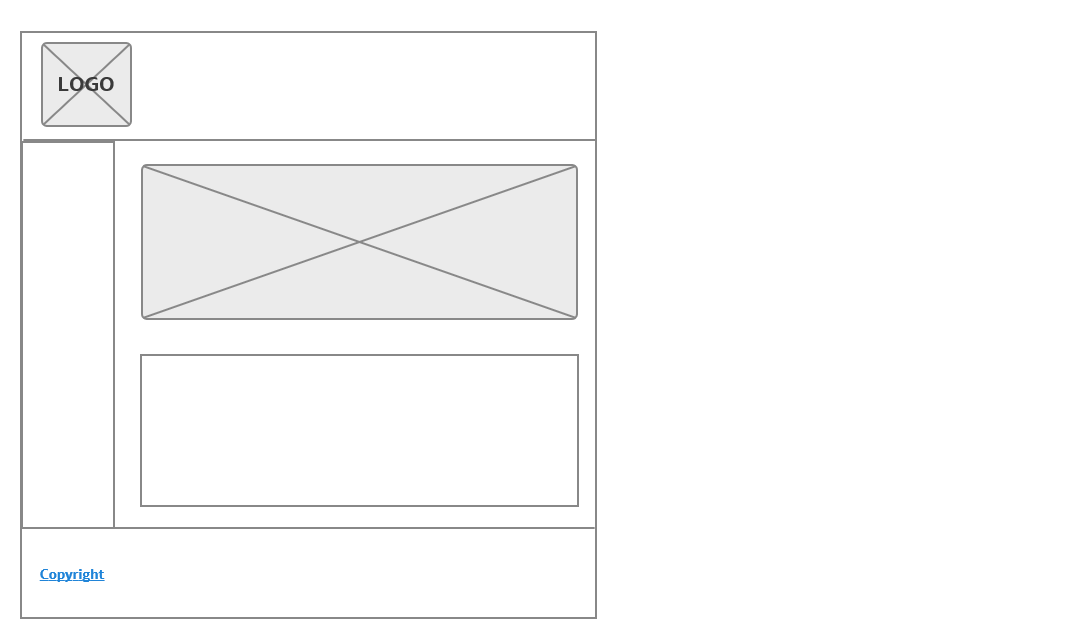
Login/Signup page



About Us page

## Print Layouts

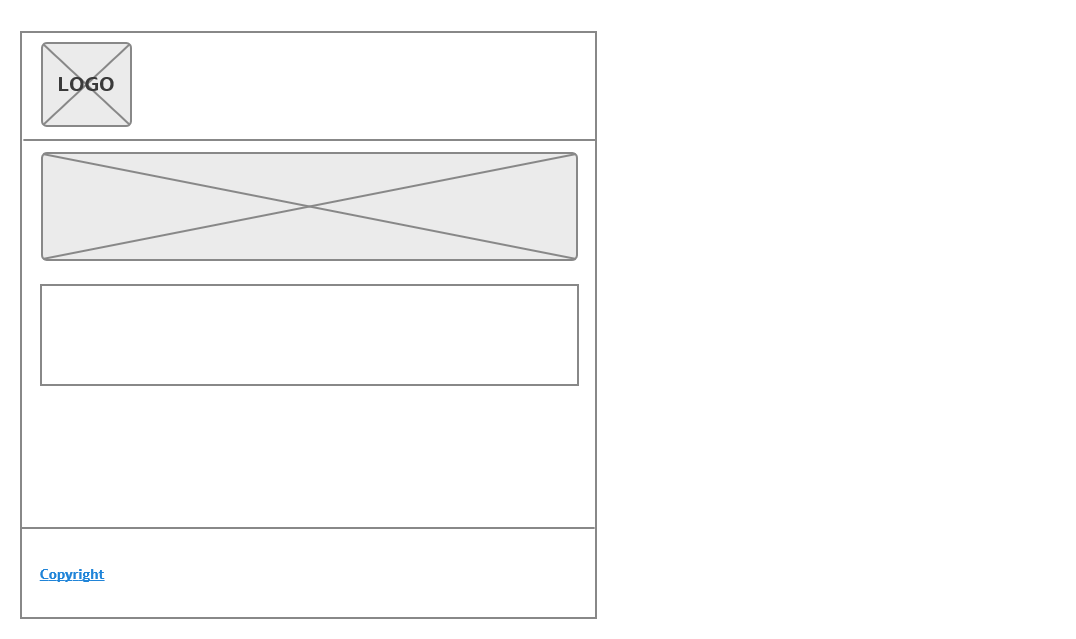
There are four types of print layouts. Print layout 1 would be used for the home page. Print layout 2 is for pages using the div that changes the content based on user selection. Print layout 3 is for the login/signup page and finally print payout 4 is for the aboutus page.



Print Layout 2



Print layout 1



Print Layout 4



Print Layout 3

Page Design / Colour Scheme

The layout will be fluid to be more user friendly. For simple and intuitive navigation, we chose to use a drop down navigation bar in the header, which is a very common element of popular websites. On the About HEMA page, the Styles page and HEMA in BC page, the left side navigation bar will have buttons which change the content in the main pane to match what the user wants to see. This will help user quickly find the content they want to see without having to sit through pages of links. Our color scheme (below) we chose because it has a historical feel to it, in line with the content of the website, but it also has a bold red, which captures the aggression of combat sports. The colours all fit within a complementary colour set.



| 000000 | 450001 | A50C0E | 2E3323 | FFFEBB

# Appendix 1

## Introduction

Historical European Martial Arts (HEMA) is a set of combat arts with their origins in Europe. Disciplines range from the earliest known axe & sword fighting manuals (circa 1400) to late Victorian era boxing and self-defense systems. Unlike most Eastern martial arts, European martial arts lost their teaching traditions and schools, so the focus of HEMA is the rediscovery and revival of these ‘dead’ arts.

## About the website

Because HEMA is a relatively young sport (the modern revival only started in the 80’s) it is not very well known; the goal of this website will be to introduce new people to the sport and hopefully speed the growth of its revival.

In addition to introducing new people to HEMA, we would also like for the website to serve as a portal to further learning on the subject. We can achieve this by including a glossary of terms commonly used in the HEMA community, having small articles on the different disciplines and weapons and a media gallery.

Not very many websites dedicated to HEMA exist now. The most popular forum for the discussion of HEMA are a Facebook group with just under 10,000 members, but a proper website dedicated to teaching people about HEMA (that doesn’t have a club or association affiliated with it) doesn’t seem to exist

<http://hroarr.com/> is a popular website which is mostly dedicated to sharing news articles and blog posts related to HEMA, but it has a heavy bias towards certain disciplines, and towards German styles as opposed to the style from other countries. Our website will aim to show no bias towards any one discipline, and will not be focused on news but rather general information.

<https://www.hemaalliance.com/> covers a little of everything in HEMA, but doesn’t get too in depth on anything technical. It serves mostly as a portal to other websites, with little original content. Our website will focus more on creative content.

## Functional Requirements

Users will be able register and login to the website. Once a user logs in, he/she can comment and share his/her views on HEMA and also can provide suggestions to request some content and can also suggest for the betterment of the website. The pages describing the styles of HEMA and nearby locations will include a form where users can comment on styles they prefer, or which locations they prefer or train at. The information in these two pages will be displayed in a list.

## Work Plan

We are planning on meeting as group to discuss the project at least three times a week right after classes. Devising an effective plan to keep us all working towards the completion of the project was difficult considering that we have different schedules and little free time; but tasks will be decided by all of us as a group and divided evenly among us. To this end, we have a few of assets that will help us stay organized and work effectively as a group.

* Slack is going to be the tool which keeps our group members in contact and allow us to schedule meeting up
* Trello will keep our team up to date on which tasks need to be worked on, when they are due, and which members of the groups are responsible for their completion
* GitHub will allow us to upload our main html code to a server online, which all of us will have access to and can change and reupload at anytime
* Google Drive/ Google Docs will allow us to share our non-code work and contribute as group to the writing of our project documents as well as keeping our other content and assets all saved in one location.