



## - An overall explanation of the site -

Fencing Hub is more than just a website; it's a lively hub where the global fencing community gathers to share their love for the sport. Whether you're a seasoned pro or just starting out, there's something here for everyone. Fencing Hub is a website for the Global fencing community, offering a large amount of resources and details tailored to both seasoned fencers and people wanting to learn more about fencers alike. At its core, the website serves as a comprehensive archive of information.

Think of us as your go-to resource centre, packed with everything you need to know about fencing. From the buzz of the Fencing Junior World Cup to the excitement of the Olympics, we keep you updated on all the top competitions. Dive deep into the world of Epee, Foil, and Saber with our detailed analysis of Grand Prix tournaments, giving you insider insights into the strategies of the best fencers out there.

But we're not just about the big events. Our website is also home to inspiring stories that shine a light on the people behind the sport. Take Mohamed Elsayed, for example—a true fencing legend whose journey from humble beginnings to global recognition is nothing short of inspiring. Through these stories, we aim to uncover the rich history and cultural significance of fencing, showing you why it's so much more than just a sport.

So whether you're here to stay updated on the latest tournaments or to simply immerse yourself in the elegance of fencing, Fencing Hub is your ultimate destination. Come join us on this thrilling journey through the world of fencing!

[Link to my design planning](#)

## - Iterations -

### - Planning Phase -

During the planning phase, I focused on laying out the structure and content of my website to ensure it would meet both functional and aesthetic goals. I began by determining the overall purpose of the site—creating a comprehensive hub for fencing enthusiasts to check rankings, upcoming events, and more. This required mapping out how the pages would interact with the database and how users would navigate through the site.

To do this, I used Milanote, a visual planning tool, where I created a series of ER (Entity-Relationship) diagrams to plan how data would be stored and managed in the backend. This included outlining the relationships between users, fencers, events, and rankings in a well-organised database structure. Additionally, I defined the functionalities for each page of the website, from basic browsing of rankings to more complex features like event registration.

I also developed a cohesive colour scheme that would reflect the energy and tradition of fencing while keeping the design modern and user-friendly. Each element of the design, from buttons to background images, was selected to ensure that the website remained visually appealing and easy to navigate. Detailed task lists were created to track each step of development, ensuring nothing was overlooked. All of my design planning, including the diagrams and visual layouts, can be accessed via the following link: [Link to my design planning](#)

\*Note: Not all functions from planning made it to final stages\*

### **- Setting out Phase -**

The setting out phase marked the transition from planning to actual creation. I began by setting up the basic framework of the website, focusing on getting the core pages up and running. This included the "Home page," "Rankings page," and "Calendar" page, which serve as the key pillars of the site.

For the home page, I opted for a clean and straightforward design. It featured a bold image as the background to capture the attention of visitors, with a header that introduced the website's name, "Fencing Hub," and a slogan to reinforce the purpose of the site. The home page layout was designed to provide users with quick access to the most important sections, while keeping the design minimalistic and clutter-free.

On the Rankings page, I introduced a simple yet effective table that displayed fencers and their respective rankings. The design was intentionally kept straightforward during this phase to allow for later refinements. The Calendar page was also implemented, allowing users to see upcoming fencing events, although it initially only displayed basic dates and event names. As the project progressed, these features would become more interactive and dynamic, but this phase focused on laying out the essential structure.

### **- Developing Phase -**

The developing phase was when I began gathering the information and data for the website's main content. This involved sourcing data on fencers, creating a database to store their ranking information, and ensuring that the website could dynamically update rankings based on new results. I also added functionalities such as user login and the ability for fencers to register for upcoming events via the calendar. Additional dynamic features, like filtering rankings by different criteria, were incorporated during this phase.

### **- Pretty Phase -**

In the pretty phase, I shifted my focus towards refining the aesthetics and improving the overall user experience. This phase involved enhancing the visual appeal of the website to make it more polished and professional. I began by applying the colour scheme that had been planned earlier, ensuring that the website's design was cohesive and visually balanced.

CSS was used extensively (Over 1000 lines 😱) during this phase to bring the design elements to life. I applied subtle animations to buttons, which helped to make the user experience smoother

and more engaging. Typography was another area of focus; I chose fonts that complemented the website's theme and ensured readability across different devices. I also introduced more sophisticated layouts for the Rankings and Calendar pages, making them not only functional but also visually appealing.

## - Final/Testing Phase -

The final phase focused on testing all of the website's functionalities to ensure that everything worked smoothly. During this phase, I performed thorough testing on every feature, including the login system, registration process, ranking updates, and event registrations. Each function was tested multiple times and on multiple different functions to ensure that it produced the expected results without any bugs or errors.

I also ran usability tests to gather feedback on the overall experience from a user perspective. These tests helped me identify any remaining issues or areas for improvement.

\*Note: All of the testing outcomes and feedback can be seen in the Testing & Feedback sections of the document\*

## - Designs -

	Home Page	Calendar	Rankings	About Fencing
First Draft				
Upgraded Draft				
Final				

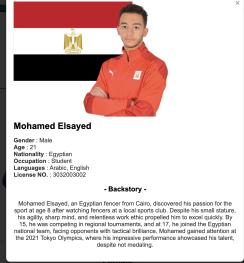
Fencing stories	About us	Login	Register

## - SQL Queries -

	Home Page	Calendar	Rankings
Purpose	NO QUERIES NEEDED	To select relevant information about upcoming Events such as Name, Location and Dates into specific calendar tables	To select information about recent Events such as the results (1st place, second and third equal) as well as the name, Location and dates of the event.
Queries		<b>SELECT event_id,</b>	<b>SELECT * FROM</b>

		<pre>event_name, start_date, gender, location, weapon <b>FROM</b> Events <b>ORDER BY</b> start_date <b>ASC</b></pre>	<p><b>Male_Fencers WHERE</b>  <b>weapon = 'Epee' ORDER</b>  <b>BY rank ASC</b></p> <p><b>SELECT * FROM</b>  <b>Male_Fencers WHERE</b>  <b>weapon = 'Foil' ORDER</b>  <b>BY rank ASC</b></p> <p><b>SELECT * FROM</b>  <b>Male_Fencers WHERE</b>  <b>weapon = 'Sabre'</b>  <b>ORDER BY rank ASC</b></p> <p><b>SELECT * FROM</b>  <b>Female_Fencers</b>  <b>WHERE</b> weapon = 'Epee'  <b>ORDER BY rank ASC</b></p> <p><b>SELECT * FROM</b>  <b>Female_Fencers</b>  <b>WHERE</b> weapon = 'Foil'  <b>ORDER BY rank ASC</b></p> <p><b>SELECT * FROM</b>  <b>Female_Fencers</b>  <b>WHERE</b> weapon =  <b>'Sabre' ORDER BY rank</b>  <b>ASC</b></p>																																																																																																																							
<b>Expected output</b>		<p><b>Events in Month</b></p> <p>Epee Grand Prix ▾  Date: 2024-01-31  Gender: Male  Location: Doha, Qatar  Weapon: Epee</p>	Tournament A   City A   2024-04-10   Player X   Player Y   Player Z																																																																																																																							
<b>Output</b>		<p><b>Events in Month</b></p> <p>Epee Grand Prix ▾  Date: 2024-01-31  Gender: Male  Location: Doha, Qatar  Weapon: Epee</p>	<table border="1"> <thead> <tr> <th>Rank</th> <th>Name</th> <th>Nationality</th> <th>Weapon</th> <th>Gender</th> <th>Hand</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>1</td><td>Tamás Máté Koch</td><td>Hungarian</td><td>Epee</td><td>Male</td><td>R</td><td>24</td></tr> <tr><td>2</td><td>Davide Di Verdi</td><td>Italian</td><td>Epee</td><td>Male</td><td>L</td><td>22</td></tr> <tr><td>3</td><td>Federico Versini</td><td>Italian</td><td>Epee</td><td>Male</td><td>R</td><td>26</td></tr> <tr><td>4</td><td>Mohamed Sayyad</td><td>Egyptian</td><td>Epee</td><td>Male</td><td>R</td><td>21</td></tr> <tr><td>5</td><td>Kai Kuro</td><td>Japanese</td><td>Epee</td><td>Male</td><td>R</td><td>29</td></tr> <tr><td>6</td><td>Alexandre Bertrand</td><td>French</td><td>Epee</td><td>Male</td><td>R</td><td>33</td></tr> <tr><td>7</td><td>Yvan Shalom Frelich</td><td>—</td><td>Epee</td><td>Male</td><td>R</td><td>29</td></tr> <tr><td>8</td><td>Dorothy Sloane</td><td>Hungarian</td><td>Epee</td><td>Male</td><td>R</td><td>26</td></tr> <tr><td>9</td><td>Ruslan Kravchenko</td><td>Ukrainian</td><td>Epee</td><td>Male</td><td>R</td><td>32</td></tr> <tr><td>10</td><td>Yannick Boissé</td><td>French</td><td>Epee</td><td>Male</td><td>R</td><td>25</td></tr> <tr><td>11</td><td>Guillermo Mestia</td><td>Georgian</td><td>Epee</td><td>Male</td><td>L</td><td>26</td></tr> <tr><td>12</td><td>Robin Léonard Gaucon</td><td>Venezuelan</td><td>Epee</td><td>Male</td><td>L</td><td>38</td></tr> <tr><td>13</td><td>Minghui Lin</td><td>Chinese</td><td>Epee</td><td>Male</td><td>R</td><td>27</td></tr> <tr><td>14</td><td>Roman Corrao</td><td>French</td><td>Epee</td><td>Male</td><td>R</td><td>26</td></tr> <tr><td>15</td><td>Zhe Wang</td><td>Chinese</td><td>Epee</td><td>Male</td><td>L</td><td>27</td></tr> <tr><td>16</td><td>Jiri Beran</td><td>Czechian</td><td>Epee</td><td>Male</td><td>R</td><td>42</td></tr> </tbody> </table>	Rank	Name	Nationality	Weapon	Gender	Hand	Age	1	Tamás Máté Koch	Hungarian	Epee	Male	R	24	2	Davide Di Verdi	Italian	Epee	Male	L	22	3	Federico Versini	Italian	Epee	Male	R	26	4	Mohamed Sayyad	Egyptian	Epee	Male	R	21	5	Kai Kuro	Japanese	Epee	Male	R	29	6	Alexandre Bertrand	French	Epee	Male	R	33	7	Yvan Shalom Frelich	—	Epee	Male	R	29	8	Dorothy Sloane	Hungarian	Epee	Male	R	26	9	Ruslan Kravchenko	Ukrainian	Epee	Male	R	32	10	Yannick Boissé	French	Epee	Male	R	25	11	Guillermo Mestia	Georgian	Epee	Male	L	26	12	Robin Léonard Gaucon	Venezuelan	Epee	Male	L	38	13	Minghui Lin	Chinese	Epee	Male	R	27	14	Roman Corrao	French	Epee	Male	R	26	15	Zhe Wang	Chinese	Epee	Male	L	27	16	Jiri Beran	Czechian	Epee	Male	R	42
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	Stories	Login	Register	Profile
Purpose	To select relevant information about the top 5 ranked fencers (From each Gender, and weapon) in order of their ranking. And display a series of information.	To correctly identify the users information and cross check information	To collect necessary information about the user such as Username, Email & Password	To update or insert new information into the database about the user
Queries	<b>SELECT * FROM</b> <b>Male_Fencers</b> <b>WHERE</b> weapon =	<b>SELECT * FROM</b> <b>Login</b> <b>WHERE</b>	<b>INSERT INTO</b> <b>Login</b> (username, email, password)	<b>UPDATE</b> Login <b>SET</b> profile_pic = ? <b>WHERE</b>

	<pre>'Epee' ORDER BY rank ASC LIMIT 5</pre> <pre><b>SELECT * FROM</b> Male_Fencers <b>WHERE</b> weapon = 'Foil' ORDER BY rank ASC LIMIT 5</pre> <pre><b>SELECT * FROM</b> Male_Fencers <b>WHERE</b> weapon = 'Sabre' ORDER BY rank ASC LIMIT 5</pre> <pre><b>SELECT * FROM</b> Female_Fencers <b>WHERE</b> weapon = 'Epee' ORDER BY rank ASC LIMIT 5</pre> <pre><b>SELECT * FROM</b> Female_Fencers <b>WHERE</b> weapon = 'Foil' ORDER BY rank ASC LIMIT 5</pre> <pre><b>SELECT * FROM</b> Female_Fencers <b>WHERE</b> weapon = 'Sabre' ORDER BY rank ASC LIMIT 5</pre>	username = ? <b>AND</b> password = ?	<b>VALUES</b> (?, ?, ?)	username = ? <b>UPDATE</b> Login <b>SET</b> username = ?, email = ?, phone = ?, address = ? <b>WHERE</b> username = ?
Expected output	 <p>Mohamed Elsayed</p> <p>Gender: Male Age: 21 Nationality: Egyptian Occupation: Student Languages: Arabic, English License No.: 302000002</p> <p>- Backstory -</p> <p>Mohamed Elsayed, an Egyptian fencer from Cairo, discovered his passion for the sport at age 11 after watching fencers at a local sports club. Despite his small stature, his agility, sharp mind, and relentless work ethic propelled him to excel quickly. By 16, he was competing in regional tournaments, and at 17, he joined the Egyptian national team, facing opponents with tactical brilliance. Mohamed gained attention at the 2021 Tokyo Olympics, where his impressive performances showcased his talent, despite not medaling.</p>			
Output	 <p>Mohamed Elsayed</p> <p>Gender: Male Age: 21 Nationality: Egyptian Occupation: Student Languages: Arabic, English License No.: 302000002</p> <p>- Backstory -</p> <p>Mohamed Elsayed, an Egyptian fencer from Cairo, discovered his passion for the sport at age 11 after watching fencers at a local sports club. Despite his small stature, his agility, sharp mind, and relentless work ethic propelled him to excel quickly. By 16, he was competing in regional tournaments, and at 17, he joined the Egyptian national team, facing opponents with tactical brilliance. Mohamed gained attention at the 2021 Tokyo Olympics, where his impressive performances showcased his talent, despite not medaling.</p>			

## Relevant implications (Web)

👉User-friendly navigation and interface👉

The website should be designed with a user-friendly interface that caters to the needs of different types of end users. It's essential to ensure that users, whether new or repeat, can easily navigate the website.

## 👉Usability👈

The software should be easy to use for all types of users, including those with little technical knowledge. Clear instructions, intuitive design, and simple navigation is what I aim for in my website to ensure that users can accomplish their tasks without confusion or frustration. Good usability reduces the learning curve, minimises errors, and increases overall user satisfaction, encouraging frequent use and engagement with the system.

## 👉Functionality👈

One of the most crucial implications that are relevant to this website is functionality. It pertains to ensuring that the website's features and services work as intended. Users should be able to navigate through the site smoothly (without problems), access the information or services they need, and interact with various elements without encountering significant issues. This ensures a positive user experience and encourages repeat visits.

## Relevant implications (Database)

### 👉Data Integrity👈

Ensuring data integrity is a critical aspect of my database for my fencing website. Data integrity refers to the accuracy, consistency, and reliability of the data stored, which is crucial given the extensive information the website will manage. This data will include details about fencers, events, and rankings, all of which will be accessible to the end users.

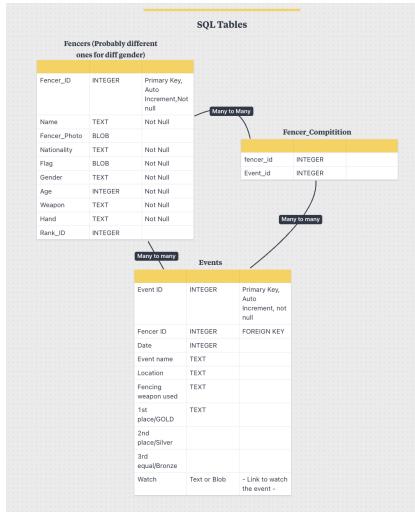
### 👉Intellectual property👈

When designing and presenting my database, it is essential to ensure that no intellectual property, such as copyrighted images or patented content, is used without proper permission from said owner. This involves creating original content, obtaining the necessary licences for third-party materials, and respecting trademarks, all while adhering to legal guidelines and ensuring that the intellectual property rights of others are kept safe. Additionally, as the website is used by end users, it's important to establish clear terms of use and copyright policies.

### 👉Privacy👈

When designing my database, ensuring the privacy of users' personal and login information is critical. This includes securely managing sensitive data such as usernames, passwords, and any other login credentials. Passwords must be hashed and encrypted before being stored in the database to prevent unauthorised access in case of a data breach. As well as only collecting information that is necessary and basic.

# - Planning ER diagram -



This was my planning phase ER diagram for my website, representing the key entities and their relationships. I believed that these three tables—Fencers, Events, and Fencer\_Competitions—captured all the necessary information I would need to display for the end user. The Fencers table contains individual fencer attributes like their ID, name, nationality, gender, age, and ranking. The Events table details event-related data such as the event name, location, and fencing results. The Fencer\_Competitions table is a join table, linking the Fencers and Events tables through many-to-many relationships. This model was designed to efficiently present data on my website, providing a comprehensive view of both fencers and their participation in various events.

# - Final ER diagram -



This is my final ER diagram and is represented in my database. As we can see from this ER diagram in contrast to the “planning ER diagram”, there are much more tables with more specified information. This includes tables like “login” which was needed for the login system, Separate Male and Female Fencers tables, This allowed for an easier implementation of rankings and other relevant information. We also included a “National teams” table as a one to many relationship with both “Fencer” tables. In this final iteration we removed the table “Fencer competition” as this was quite similar to the “events table” which remained mostly identical to the planning phase.

# - Testing -

Notes	Expected Output	Output	Pass/Fail
<p><b>What</b> Favicon on all pages <b>How</b>  <pre>&lt;link rel="icon" type="image/png"       href="Static/Images/Logos/logo.png"&gt;</pre>  <b>Notes</b> Works well constantly         </p>	 Fencing Hub	 Fencing Hub	

## - Navbar -

<p><b>What</b> Link to home page <b>How</b> <b>Notes</b></p>	127.0.0.1:5000/home	127.0.0.1:5000/home	
<p><b>What</b> Link to rankings page <b>How</b> <b>Notes</b></p>	127.0.0.1:5000/rankings	127.0.0.1:5000/rankings	
<p><b>What</b> Link to calendar page <b>How</b> <b>Notes</b></p>	127.0.0.1:5000/calendar	127.0.0.1:5000/calendar	
<p><b>What</b> Link to about fencing page <b>How</b> <b>Notes</b></p>	127.0.0.1:5000/about_fencing	127.0.0.1:5000/about_fencing	
<p><b>What</b> Link to stories page <b>How</b> <b>Notes</b></p>	127.0.0.1:5000/stories	127.0.0.1:5000/stories	
<p><b>What</b> Link to about us page <b>How</b> <b>Notes</b></p>	127.0.0.1:5000/about_us	127.0.0.1:5000/about_us	

**What**  
Drop down  
**How**

```
<li class="dropdown">
  <a href="#">Information ▼</a>
  <div class="dropdown-content">
    <a href="/about_fencing">About Fencing</a>
    <a href="/stories">Stories</a>
    <a href="/about_us">About Us</a>
  </div>
</li>
```

**Notes**

INFORMATION ▼

ABOUT  
FENCING  
STORIES  
ABOUT US

INFORMATION ▼

ABOUT  
FENCING  
STORIES  
ABOUT US

**What**  
Highlights and underlines the “page” under cursor  
**How**

```
.menu li a::after {
  content: '';
  position: absolute;
  bottom: 0;
  left: 0;
  width: 0;
  height: 2px;
  background-color: #0088a9;
  transition: width 0.7s ease;
```

**Notes**

There is also a transition/animation that i am unable to show in a screenshot



## - Login -

**What**  
Login page error message  
**How**

```
.then(data => {
  // Check if the response contains an error message
  if (data.includes("invalid username or password")) {
    event.preventDefault(); // Prevent form from submitting
    errorMessage.style.display = 'block';
    usernameField.classList.add('input-error');
    passwordField.classList.add('input-error');
  } else {
    errorMessage.style.display = 'none';
    usernameField.classList.remove('input-error');
    passwordField.classList.remove('input-error');
    this.submit(); // Submit the form if no errors
  }
})
```

**Notes**

Constantly displaying the error message when username or password are incorrect, There is also a shake animation when this happens.

Login

Username

Password

Remember me [Forgot Password?](#)

Incorrect username or password.

**Login**

Don't have an account? [Sign up here](#)

Login

Username

Password

Remember me [Forgot Password?](#)

Incorrect username or password.

**Login**

Don't have an account? [Sign up here](#)

**What**  
Link to register page  
**How**

```
<div class="register-link">
  <p>Don't have an account?  
<a href="/register">Sign up here</a></p>
</div>
```

**Notes**

127.0.0.1:5000/register

127.0.0.1:5000/register

**What**

127.0.0.1:5000/forgot-password

127.0.0.1:5000/forgot-password

## Link to forgot password page

### How

```
<a href="/forgot-password"
class="forgot-password">Forgot Password?</a>
```

### Notes

#### What

Link to home from login page

### How

```
<div class="home-button">
  <a href="/home">
    <i class='bx bx-home'></i>
  </a>
</div>
```

### Notes

Located at the top left

#### What

Automatically hides password

### How

```
<div class="input-box">
  <input type="password" id="password" name="password" required maxlength="20">
  <p>Password</p>
  <i class='bx bxs-lock-alt' id="toggle-password"
  onclick="togglePasswordVisibility()"></i>
</div>

function togglePasswordVisibility() {
  const passwordField = document.getElementById("password");
  const toggleIcon = document.getElementById("toggle-password");

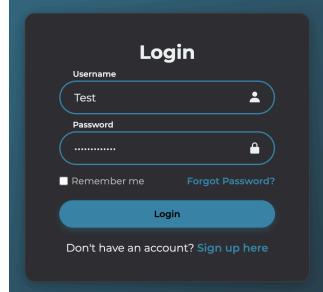
  if (passwordField.type === "password") {
    passwordField.type = "text";
    toggleIcon.classList.remove('bxs-lock-alt');
    toggleIcon.classList.add('bxs-lock-open');
  } else {
    passwordField.type = "password";
    toggleIcon.classList.remove('bxs-lock-open');
    toggleIcon.classList.add('bxs-lock-alt');
  }
}
```

### Notes

Shows a closed lock icon when password will be hidden

127.0.0.1:5000/home

127.0.0.1:5000/home



#### What

Show password

### How

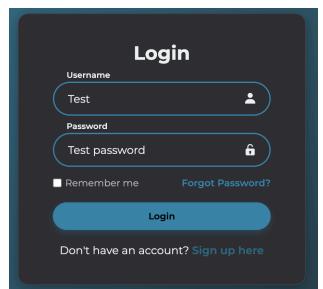
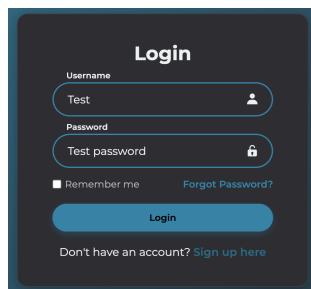
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<div class="input-box">
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  <p>Password</p>
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  onclick="togglePasswordVisibility()"></i>
</div>

function togglePasswordVisibility() {
  const passwordField = document.getElementById("password");
  const toggleIcon = document.getElementById("toggle-password");

  if (passwordField.type === "password") {
    passwordField.type = "text";
    toggleIcon.classList.remove('bxs-lock-alt');
    toggleIcon.classList.add('bxs-lock-open');
  } else {
    passwordField.type = "password";
    toggleIcon.classList.remove('bxs-lock-open');
    toggleIcon.classList.add('bxs-lock-alt');
  }
}
```

### Notes

Shows password when user clicks on the lock, icon changes (Open lock) to show that this is the case



## What

Character limit for username and password  
How

```
<div class="input-box">
  <input type="text" id="username" name="username" required maxlength="20"
  oninput="updateCharacterCount()">
  <p>Username</p>
  <i class="bx bxs-user"></i>
  <span id="username-char-count" class="char-count"></span>
</div>
<div class="input-box">
  <input type="password" id="password" name="password" required maxlength="20">
  <p>Password</p>
  <i class="bx bxs-lock-alt" id="toggle-password"
  onclick="togglePasswordVisibility()"></i>
</div>
```

## Notes

Character limit is set at 20 in HTML

## Login

Username  
TestingTestingTestin 20/20

Password

Remember me [Forgot Password?](#)

[Login](#)

Don't have an account? [Sign up here](#)

## Login

Username  
TestingTestingTestin 20/20

Password

Remember me [Forgot Password?](#)

[Login](#)

Don't have an account? [Sign up here](#)

## What

Error Message for invalid email

How

```
<input type="email"
id="SignUp-email" name="email" required>
<p>Email</p>
<i class='bx bx-envelope'></i>
```

## Notes

## - Register -

## What

Error Message for invalid email

How

```
<input type="email"
id="SignUp-email" name="email" required>
<p>Email</p>
<i class='bx bx-envelope'></i>
```

## Sign Up

Username  
Test

Email  
Invalid email!

Please include an '@' in the email address. 'Invalid email' is missing an '@'.

By clicking register, you agree to our [Privacy Policy](#).

[Register](#)

Already have an account? [Login here](#)

## Sign Up

Username  
Test

Email  
Invalid email!

Please include an '@' in the email address. 'Invalid email' is missing an '@'.

By clicking register, you agree to our [Privacy Policy](#).

[Register](#)

Already have an account? [Login here](#)

## What

Error Message for password re-entry

How

```
.then(data => {
  // Check if the response contains an error message
  if (data.includes("invalid username or password!")) {
    event.preventDefault(); // Prevent form from submitting
    errorMessage.style.display = 'block';
    usernameField.classList.add('input-error');
    passwordField.classList.add('input-error');
  } else {
    errorMessage.style.display = 'none';
    usernameField.classList.remove('input-error');
    passwordField.classList.remove('input-error');
    this.submit(); // Submit the form if no errors
  }
})
```

## Notes

Constantly displaying the error message when passwords do not match, There is also a shake animation when this happens.

## Sign Up

Username  
Test

Email  
21252@burnside.school.nz

Password

Password again

By clicking register, you agree to our [Privacy Policy](#).

Please make sure passwords match.

[Register](#)

Already have an account? [Login here](#)

## Sign Up

Username  
Test

Email  
21252@burnside.school.nz

Password

Password again

By clicking register, you agree to our [Privacy Policy](#).

Please make sure passwords match.

[Register](#)

Already have an account? [Login here](#)

## What

Character limit for username and password

How

```
<div class="input-box">
  <input type="text" id="SignUp-username" name="username"
  required maxlength="20" oninput="updateCharacterCount('SignUp-username',
  'username-char-count')">
  <p>Username</p>
  <i class="bx bxs-user"></i>
  <span id="username-char-count" class="char-count"></span>
</div>
<div class="input-box">
  <input type="email" id="SignUp-email" name="email" required
  maxlength="30" oninput="updateCharacterCount('SignUp-email',
  'email-char-count')">
  <p>Email</p>
  <i class="bx bx-envelope"></i>
  <span id="email-char-count" class="char-count"></span>
</div>
```

## Sign Up

Username  
TestingTestingTestin 20/20

Email  
testing\_email 13/30

Password

Confirm password

By clicking register, you agree to our [Privacy Policy](#).

[Register](#)

Already have an account? [Login here](#)

## Sign Up

Username  
TestingTestingTestin 20/20

Email  
testing\_email 13/30

Password

Confirm password

By clicking register, you agree to our [Privacy Policy](#).

[Register](#)

Already have an account? [Login here](#)

```
</div>
```

## Notes

Character limit is set at 20 for username and 30 for email in HTML

## What

Character limit for username and email in python

### How

```
# Validate that the username and email do not exceed 20
# characters to
# ensure data consistency and database integrity
if len(username) > 20 or len(email) > 20:
    flash("Username and Email must not exceed 20
characters!", "error")
    return redirect(url_for('registerpage'))
```

### Notes

Character limit is set at 20 in python, this is so that if a user is to circumvent the field length, it will not insert (for example) 2TB of text in the database.

## - Profile -

## What

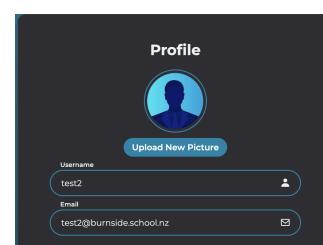
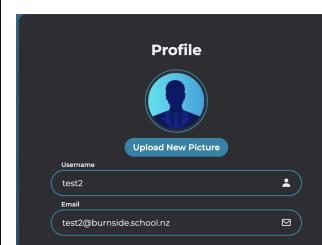
Display icon if user has not selected profile picture

### How

```


```

### Notes



## What

Profile picture button allows user to select images from storage

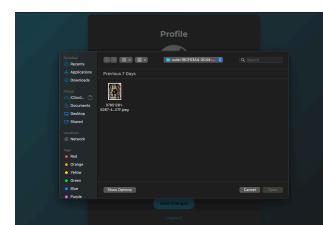
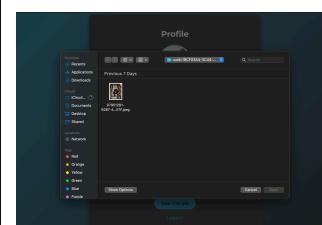
### How

```


accept="image/*" onchange="previewImage(event)"/>


```

### Notes



## What

Inputs said image into database and visual studio code

### How

```
# Handle the file upload
if 'profile-pic' in request.files:
    file = request.files['profile-pic']
    if file and allowed_file(file.filename):
        filename = secure_filename(file.filename)
        # Save the file to the specified folder
        file.save(os.path.join(app.config['UPLOAD_FOLDER'], filename)) # noqa:
        # Create the path to save in the database
        file_path = os.path.join(app.config['UPLOAD_FOLDER'], filename) # noqa:
        # Update the database with the new profile picture path
        do_sql("UPDATE Login SET profile_pic = ? WHERE username = ?", (file_path,
username)) # noqa:
```

### Notes

```
profile
└── English_assessment_3.png
└── history.jpeg
└── tumblr_ng63pr4EC.jpg
```

profile_pic	Static/Images/profile/English_assessment_3.png
profile_pic	Static/Images/profile/history.jpeg

```
profile
└── English_assessment_3.png
└── history.jpeg
└── tumblr_ng63pr4EC.jpg
```

profile_pic	Static/Images/profile/English_assessment_3.png
profile_pic	Static/Images/profile/history.jpeg

## What

Image then sticks in website

## How

```
# Handle the file upload
if 'profile-pic' in request.files:
    file = request.files['profile-pic']
    if file and allowed_file(file.filename):
        filename = secure_filename(file.filename)
        # Save the file to the specified folder
        file.save(os.path.join(app.config['UPLOAD_FOLDER'], filename)) # noqa:
        # Create the path to save in the database
        file_path = os.path.join(app.config['UPLOAD_FOLDER'], filename) # noqa:
        # Update the database with the new profile picture path
        do_sql("UPDATE Login SET profile_pic = ? WHERE username = ?", (file_path, username)) # noqa:
```

The screenshot shows a user profile page with a placeholder image for the profile picture. The form fields include Username (test2), Email (test2@burnside.school.nz), Phone (2040907158), and Address (home). There are buttons for 'Save Changes' and 'Logout'.

The screenshot shows the same user profile page, but now the profile picture field contains a correctly uploaded image of a person sitting at a desk. The other form fields and buttons remain the same.

## What

Only allows for integers to be inserted in Phone input box

## How

```
<div class="input-box">
    <input type="tel" id="phone" name="phone" value="{{ user_data['phone'] if user_data['phone'] else '' }}" required maxlength="11" oninput="validatePhoneNumber()">
    <p>Phone</p>
    <i class="bx bx-phone"></i>
</div>
```

Only allows for integers to be inserted in Phone input box

Only allows for integers to be inserted in Phone input box

## What

Logout button leads to a function that ends the session

## How

```
<div class="profile-link">
    <p><a href="/logout">Logout</a></p>
</div>

@app.route('/logout')
def logout():
    session.pop('username', None)
    flash("Logged out successfully!", "success")
    return redirect(url_for('homepage'))
```

## Notes

127.0.0.1:5000/logout

127.0.0.1:5000/logout

## What

Logout button leads to a function that ends the session

## How

```
<div class="profile-link">
    <p><a href="/logout">Logout</a></p>
</div>

@app.route('/logout')
def logout():
    session.pop('username', None)
    flash("Logged out successfully!", "success")
    return redirect(url_for('homepage'))
```

## Notes

Ends the session

Ends the session

## What

Character limit for all inputs in python

## How

```
# Input validation: Check if the input exceeds 30 characters
if len(new_username) > 30 or len(new_email) > 30 or len(new_phone) > 30 or len(new_address) > 30: # noqa:
    return redirect(url_for('profilepage'))
```

## Notes

Character limit is set at 30 in python, this is so that if a user is to circumvent the field length, it will not insert (for example) 2TB of text in the

database.

## - Forgot password -

## What

Sends email to user containing reset password instructions

How

```

def send_email(to_email, subject, message_body):
    # Email configuration
    sender_name = "Fencing Hub"
    sender_email = ".fencing.hub"
    sender_password = "diei mpdb lfck zgssz"
    # Use app-specific password for security

    # Create the email
    msg = MIMEText(message_body)
    msg['From'] = sender_name
    msg['To'] = to_email
    msg['Subject'] = subject
    msg.attach(MIMEText(message_body, 'plain'))

    try:
        # Connect to the server and send the email
        server = smtplib.SMTP('smtp.gmail.com', 587) # Use your SMTP server
        server.starttls() # Secure the connection
        server.login(sender_email, sender_password)
        server.sendmail(sender_email, to_email, msg.as_string())
        server.quit()

        print("Email sent successfully!")
        return True
    except Exception as e:
        print("Failed to send email: (e)")
        return False

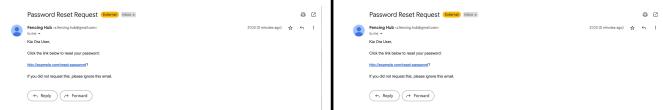
@app.route('/forgot-password', methods=['GET', 'POST'])
def forgot_password():
    if request.method == 'POST':
        email = request.form['email']

        # Validate the email if necessary
        if not email:
            flash("Please enter a valid email address!", "error")
            return redirect(url_for('forgot_password'))

        # Check if the email exists in the database
        user = do_sql("SELECT * FROM Login WHERE email = ? ", (email,))
        if not user:
            flash("This email address is not registered!", "error")
            return redirect(url_for('forgot_password'))

        # Send email using the send_email function
        subject = "Password Reset Request"
        message_body = f"Kia Ora User,\n\nClick the link below to reset your\npassword:\n\nhttp://example.com/reset-password?\n\nIf you did not request this, please ignore\nthis email." # noqa

```



## Notes

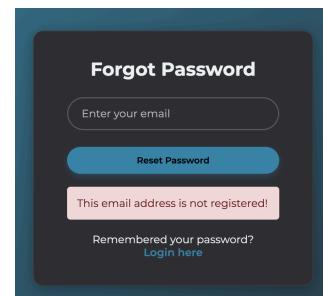
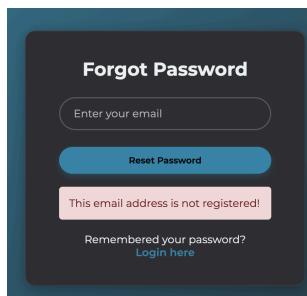
Works perfectly, Link is just an example in image

## What

Error message for email that is not in the database

How

```
# Check if the email exists in the database
user = do_sql("SELECT * FROM Login WHERE email = ?", (email,))
if not user:
    flash("This email address is not registered!", "error")
    return redirect(url_for('forgot password'))
```



## Notes

## What

Success message for when email has been sent

How

```
if send_email(email, subject, message_body):
    flash("Reset email has been sent!", "success")
else:
    flash("Failed to send the email. Please try again.", "error")
```



## Notes

# What

Ensures it is a valid email structure

# How

```
<form action="/forgot-password" method="POST">
<div class="input-box">
  <input type="email" id="email" name="email" required placeholder="Enter your email">
</div>
<button type="submit">Reset Password</button>
</form>
```

## Notes

# - Rankings -

## What

Search for fencers in table

## How

```
<div class="selector-group">
  <div class="selector-label">Search</div>
  <input type="text" id="searchInput" onkeyup="filterRankings()" placeholder="Search for a Fencer..."/>
</div>

function filterRankings() {
  const selectedWeapon = document.querySelector('#weaponSelector input:checked').value;
  const selectedGender = document.querySelector('#genderSelector input:checked').value;
  const searchQuery = document.getElementById('searchInput').value.toLowerCase();

  const table = document.getElementById('rankingsTable');
  const rows = table.getElementsByTagName('tbody')[0].getElementsByTagName('tr');
  const filteredRows = [];

  for (let row of rows) {
    const weapon = row.getAttribute('data-weapon');
    const gender = row.getAttribute('data-gender');
    const name = row.getElementsByTagName('td')[1].textContent.toLowerCase();

    if (weapon === selectedWeapon && gender === selectedGender && name.includes(searchQuery)) {
      filteredRows.push(row);
      row.style.display = '';
    } else {
      row.style.display = 'none';
    }
  }
}
```

## Notes

Constantly displaying the error message when passwords do not match, There is also a shake animation when this happens.



## What

Pagination

## How

```
function paginateTable() {
  const table = document.getElementById('rankingsTable');
  const rows = table.getElementsByTagName('tbody')[0].getElementsByTagName('tr');
  const totalRows = rows.length;
  const totalPages = Math.ceil(totalRows / rowsPerPage);

  // Hide all rows
  for (let i = 0; i < totalRows; i++) {
    rows[i].style.display = 'none';
  }

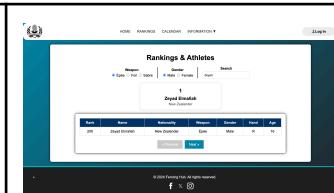
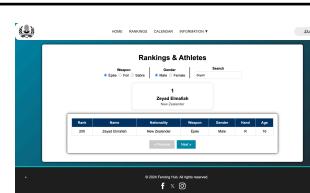
  // Show rows for the current page
  const start = (currentPage - 1) * rowsPerPage;
  const end = Math.min(start + rowsPerPage, totalRows);
  for (let i = start; i < end; i++) {
    rows[i].style.display = '';
  }

  // Enable/disable pagination buttons
  document.getElementById('prevPage').disabled = currentPage === 1;
  document.getElementById('nextPage').disabled = currentPage === totalPages;
}

function nextPage() {
  const table = document.getElementById('rankingsTable');
  const rows = table.getElementsByTagName('tbody')[0].getElementsByTagName('tr');
  const totalRows = rows.length;
  const totalPages = Math.ceil(totalRows / rowsPerPage);

  if (currentPage < totalPages) {
    currentPage++;
    paginateTable();
  }
}

function prevPage() {
```



```

        if (currentPage > 1) {
            currentPage--;
            paginateTable();
        }
    }
}

```

## Notes

Constantly displaying the error message when passwords do not match, There is also a shake animation when this happens.

### What Display 10 @ a time table How

```

.then(data => {
    // Check if the response contains an error message
    if (data.includes("Invalid username or password!")) {
        event.preventDefault(); // Prevent form from submitting
        errorMessage.style.display = 'block';
        usernameField.classList.add('input-error');
        passwordField.classList.add('input-error');
        this.submit(); // Submit the form if no errors
    } else {
        errorMessage.style.display = 'none';
        usernameField.classList.remove('input-error');
        passwordField.classList.remove('input-error');
        this.submit(); // Submit the form if no errors
    }
})
)

```

## Notes

Only displays ten fencers at a time when Pagination is in action. Not sure how to fix yet

A screenshot of a web application titled "Rankings & Athletes". The page shows three tabs: "Dimitri Vlachos" (selected), "Tomas Maia Koch", and "Pedro Vicente". Below the tabs is a table with 10 rows of data. The columns are labeled "Rank", "Name", "Nationality", "Weight", "Category", "Score", and "Age". The data includes names like "Dimitri Vlachos", "Tomas Maia Koch", and "Pedro Vicente". At the bottom of the table is a "Next" button.

A screenshot of the same web application. The "Dimitri Vlachos" tab is still selected. The table below shows the same 10 fencers as the previous screenshot. The "Next" button is visible at the bottom.

## What

Categorization of fencers based on weapon  
How

```

.then(data => {
    // Check if the response contains an error message
    if (data.includes("Invalid username or password!")) {
        event.preventDefault(); // Prevent form from submitting
        errorMessage.style.display = 'block';
        usernameField.classList.add('input-error');
        passwordField.classList.add('input-error');
        this.submit(); // Submit the form if no errors
    } else {
        errorMessage.style.display = 'none';
        usernameField.classList.remove('input-error');
        passwordField.classList.remove('input-error');
        this.submit(); // Submit the form if no errors
    }
})
)

```

## Notes

Works well constantly, Updates leaders as well

A screenshot of the web application. The "Dimitri Vlachos" tab is selected. The table below shows 10 fencers categorized by weapon. The columns are labeled "Rank", "Name", "Nationality", "Weight", "Category", "Score", and "Age". The data includes names like "Dimitri Vlachos", "Tomas Maia Koch", and "Pedro Vicente". At the bottom is a "Next" button.

A screenshot of the same web application. The "Dimitri Vlachos" tab is selected. The table below shows the same 10 fencers categorized by weapon. The "Next" button is visible at the bottom.

Rankings & Athletes						
	Women	Men	Gender	Search	Home	Feedback
<b>2</b>	Ko Long Cheng Hong Kong, China	Nick Nine Austria				
<b>3</b>	Terrence Martin United States					
Next	Monica	Monica	Women	Gender	Search	
1	Wang Junxia China	Pat	Pat	Male		
2	Ko Long Cheng Hong Kong, China	Pat	Pat	Male		
3	Terrence Martin United States	Pat	Pat	Male		
4	Sergio Pineda Mexico	Pat	Pat	Male		
5	Chris Lutz France	Pat	Pat	Male		
6	Peter Kormann Germany	Pat	Pat	Male		
7	Yoshitomo Matsusaka Japan	Pat	Pat	Male		
8	Colleen Moore United States	Pat	Pat	Male		
9	Monica	Pat	Pat	Male		
10	Seiji Morimoto Australia	Pat	Pat	Male		
11	Zhou Jie China	Pat	Pat	Male		
12	Patricia Gómez Spain	Pat	Pat	Male		
13	Carsten Uebelohre Germany	Pat	Pat	Male		
14	Monica	Pat	Pat	Male		
15	Alexander Tikhonov Russia	Pat	Pat	Male		
16	Daniel Gómez Hungary	Pat	Pat	Male		
17	David Sime United States	Pat	Pat	Male		
18	Kurtis Bechtold United States	Pat	Pat	Male		
19	Qian Xun China	Pat	Pat	Male		
20	Guan Yu China	Pat	Pat	Male		
21	David Stoye United States	Pat	Pat	Male		
22	Edmund Loh United States	Pat	Pat	Male		
23	Monica	Pat	Pat	Male		
24	Wes Cheyney-Palmer Australia	Pat	Pat	Male		
25	Alexander Tikhonov Russia	Pat	Pat	Male		
26	Quinn Luttrell United States	Pat	Pat	Male		
27	Monica	Pat	Pat	Male		
28	Patricia Gómez Spain	Pat	Pat	Male		
29	Felix Baumgartner Austria	Pat	Pat	Male		
30	Heidi Wengenmayr Austria	Pat	Pat	Male		
31	Monica	Pat	Pat	Male		
32	Heiko Vater Germany	Pat	Pat	Male		
33	Monica	Pat	Pat	Male		
34	Monica	Pat	Pat	Male		
35	Monica	Pat	Pat	Male		
36	Monica	Pat	Pat	Male		
37	Monica	Pat	Pat	Male		
38	Monica	Pat	Pat	Male		
39	Monica	Pat	Pat	Male		
40	Monica	Pat	Pat	Male		
41	Monica	Pat	Pat	Male		
42	Monica	Pat	Pat	Male		
43	Monica	Pat	Pat	Male		
44	Monica	Pat	Pat	Male		
45	Monica	Pat	Pat	Male		
46	Monica	Pat	Pat	Male		
47	Monica	Pat	Pat	Male		
48	Monica	Pat	Pat	Male		
49	Monica	Pat	Pat	Male		
50	Monica	Pat	Pat	Male		

- Calendar -

## What

# Calendar updates dynamically with selectors

## How

```

        const calendarBody = document.createElement('tbody');
        calendarBody.innerHTML = '' // Clear the current calendar

        const firstDay = new Date(year, month, getDay());
        const daysInMonth = new Date(year, month + 1, 0).getgetDate();

        const today = new Date();
        const lastMonthEndDate = today.getMonth() === month ? today.getFullYear() === year
            : null;

        let row = document.createElement('tr');
        for (let i = 0; i < firstDay; i++) {
            let cell = document.createElement('td');
            row.appendChild(cell);
        }

        for (let day = 1; day <= daysInMonth; day++) {
            if (row.children.length === 7) {
                calendarBody.appendChild(row);
                row = document.createElement('tr');
            }
            let cell = document.createElement('td');
            cell.textContent = day;

            // Highlight today
            if (firstDay.getMonthAndYear === day === today.getDate()) {
                cell.classList.add('today');
            }

            row.appendChild(cell);
        }

        calendarBody.appendChild(row);
    };

```

## Notes

## Updates

Events Calendar						
		Select Month		Select Year		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Events Calendar						
		Select Month		Select Year		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Events Calendar						
Select Month:		Select Year:		View Month		
January	February	March	April	May	June	July
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Events Calendar						
Select Month:		Select Year:		View Month		
January	February	March	April	May	June	July
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

# What

Calendar Identifies the current day and highlights it on calendar  
**How**

```
day++) {
```

```
    calendarBody.appendChild(row);
    row = document.createElement('tr');
}
```

```
let cell = document.createElement('td');
cell.textContent = day;

// Highlight today
if (isCurrentMonthAndYear === day) {
    cell.classList.add('today');
}

row.appendChild(cell);
```

## Notes

Works well

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Events Calendar						
Month		Week		Day		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

## What

Shows relevant events in month selected on calendar  
**How**

has any even

```
        const eventDatesStr = `${year}-${month + 1}-${day}`.replace(/-/g, (d) => (d) === '0' ? '' : '$1');

        const eventsItems = upcomingEventList.querySelectorAll('li');
```

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Events Calendar						
Event Name:		Date From:	Date To:			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Events Calendar						
Event Month	Start Date	End Date	Event Type	Location	Priority	Assigned To
January	1	1	Meeting	Office	High	John Doe
January	8	9	Meeting	Office	Medium	John Doe
January	15	16	Meeting	Office	Medium	John Doe
January	22	23	Meeting	Office	Medium	John Doe
January	29	30	Meeting	Office	Medium	John Doe

```

eventItems.forEach(event => {
  const eventDate = event.getAttribute('data-date');
  if (eventDate === eventDataStr) {
    cell.classList.add('has-event'); // Add class for dates with events
  }
});

```

## Notes

Works as expected, may need to make it a bit more obvious what it is if I have enough time

## What

Highlights box under mouse

## Notes

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

## What

Shows relevant events in month selected underneath calendar

## How

```

<div id="event-list" style="display: flex; justify-content: space-between;>

<div id="upcoming-events" style="width: 48%;>
  <h2>All Events</h2>
  <ul id="events">
    {# for event in events %}
    <li data-date="{{ event[2] }}>{{ event[1] }}</li>
    {# endfor %}
  </ul>
</div>
<div id="events-in-month" style="width: 48%;>
  <h2>Events in Month:</h2>
  <ul id="filtered-events">
    {# for event in events %}
    <li>{{ event[1] }}</li>
    {# endfor %}
  </ul>
</div>
</div>

```

## Notes

Definitely works, might try and make it a dropdown if I can

## Events in Month

Tournoi Satellite ▾

## Events in Month

Tournoi Satellite ▾

## What

Shows relevant information once drop down is clicked

## How

```

<ul id="events">
  {# for event in events %}
  <li class="event-item">
    <span class="event-title" data-date="{{ event[2] }}>{{ event[1] }}</span>
    <div class="event-details" style="display: none;">
      <p><strong>Date:</strong> {{ event[2] }}</p>
      <p><strong>Gender:</strong> {{ event[3] }}</p>
      <p><strong>Location:</strong> {{ event[4] }}</p>
      <p><strong>Weapon:</strong> {{ event[5] }}</p>
    </div>
  </li>
  {# endfor %}
</ul>

```

## Notes

Works constantly but only when text or icon are clicked

## Events in Month

Tournoi Satellite ▾

Date: 2024-09-15

Gender: Female

Location: New Delhi, India

Weapon: Foil

## Events in Month

Tournoi Satellite ▾

Date: 2024-09-15

Gender: Female

Location: New Delhi, India

Weapon: Foil

## What

Month selector

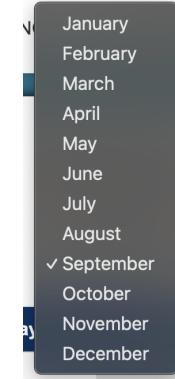
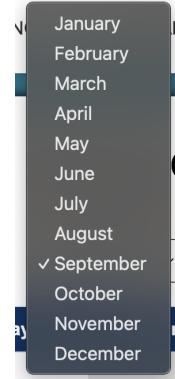
## How

```

<Table id="calendar">
  <thead>
    <tr>
      <th>Sunday</th>
      <th>Monday</th>
      <th>Tuesday</th>
      <th>Wednesday</th>
      <th>Thursday</th>
      <th>Friday</th>
      <th>Saturday</th>
    </tr>
  </thead>
  <tbody>

```

## Notes



<p><b>What</b> Year selector <b>How</b></p> <pre>&lt;div class="selector-group"&gt;   &lt;label for="year" class="selector-label"&gt;Select Year:&lt;/label&gt;   &lt;select id="year"&gt;     &lt;option value="2023"&gt;2023&lt;/option&gt;     &lt;option value="2024"&gt;2024&lt;/option&gt;     &lt;option value="2025"&gt;2025&lt;/option&gt;   &lt;/select&gt; &lt;/div&gt;</pre> <p><b>Notes</b></p>			
<p><b>What</b> Year selector <b>How</b></p> <pre>&lt;div class="selector-group"&gt;   &lt;label for="year" class="selector-label"&gt;Select Year:&lt;/label&gt;   &lt;select id="year"&gt;     &lt;option value="2023"&gt;2023&lt;/option&gt;     &lt;option value="2024"&gt;2024&lt;/option&gt;     &lt;option value="2025"&gt;2025&lt;/option&gt;   &lt;/select&gt; &lt;/div&gt;</pre> <p><b>Notes</b></p>			

## - Data Integrity -

All information regarding Athletes and Events are taken directly from the official fencing website [FIE.org](https://www.fie.org) as of Wednesday September 4th 2024.

Notes	Source	Database	Output	Pass/Fail
- Register -				

**What**

Inputs Data correctly from form into database

**Notes**

Also hashes the password for data integrity

Rank	Name	Nationality	Weapon	Gender	Hand	Age
21252	21252@burnside.school.nz	Singapore	Epee	Male	R	21

**What**

Correctly recognises Username and password from database

**Notes**

Rank	Name	Nationality	Weapon	Gender	Hand	Age
21252	21252@burnside.school.nz	Singapore	Epee	Male	R	21

**- Login -****What**

Correctly inputs relevant data into database

**Notes**

Rank	Name	Nationality	Weapon	Gender	Hand	Age
21252	21252@burnside.school.nz	Singapore	Epee	Male	R	21

**- Profile -****What**

Mohamed Elsayed ranking line

**Notes**

All information is correct and factual

Rank	Name	Nationality	Weapon	Gender	Hand	Age
1	211969331 Mohamed Elsayed	Egyptian	Epee	Male	R	21

**What**

Tamás Mate Koch ranking line

**Notes**

All information is correct and factual

Rank	Name	Nationality	Weapon	Gender	Hand	Age
1	2001 Tamás Mate Koch	Hungarian	Epee	Male	R	24

**What**

Man Wai Vivian Kong Ranking line

**Notes**

Rank	Name	Nationality	Weapon	Gender	Hand	Age
1	2001 Man Wai Vivian Kong	Hong Kong	Epee	Female	L	30

Rank	Name	Nationality	Weapon	Gender	Hand	Age
1	2001 Man Wai Vivian Kong	Hong Kong	Epee	Female	L	30

All information is correct and factual

**What**  
Nick Itkin  
Ranking line  
**Notes**

All information is correct and factual

Rank	Name	Nationality	Weapon	Gender	Hand	Age
2	Nick Itkin	American	Foil	Male	R	24

fencer_id	first_name	last_name	fencer_photo	nationality
51	Nick	Itkin	Static/...	American

gender	age	category	weapon	hand	rank	language
Male	24	Senior	Foil	R	2	English,Russian

occupation	license_number	story
Athlete	910199000	Nick Itkin, an American fencer from Los Angeles began his fencing journey at...

Rank	Name	Nationality	Weapon	Gender	Hand	Age
2	Nick Itkin	American	Foil	Male	R	24

**What**  
Alice Volpi  
expanded information box  
**Notes**  
All information is correct and factual

Rank	Poins	Name	Country	Hand	Age
3	223.000	Alice Volpi	ITALY	R	32

fencer_id	first_name	last_name	fencer_photo	nationality
53	Alice	Volpi	Static/...	Italian

gender	age	category	weapon	hand	rank	language
Female	32	Senior	Foil	R	3	English,Italian

occupation	license_number	story
Athlete	91041992000	Alice Volpi, an Italian fencer from Siena found her passion for the sport at a...

Rank	Name	Nationality	Weapon	Gender	Hand	Age
3	Alice Volpi	Italian	Foil	Female	R	32

**What**  
Colin Heathcock  
expanded information box  
**Notes**  
All information is correct and factual

Rank	Poins	Name	Country	Hand	Age
4	150.000	Colin Heathcock	USA	L	40

fencer_id	first_name	last_name	fencer_photo	nationality
104	Colin	Heathcock	Static/...	American

gender	age	category	weapon	hand	rank	language
Male	40	Senior	Sabre	R	4	UNKNOWN

occupation	license_number	story
Athlete	UNKNOWN	Colin Heathcock, an American fencer began his journey in the sport at a...

Rank	Name	Nationality	Weapon	Gender	Hand	Age
4	Colin Heathcock	American	Sabre	Male	R	40

**What**  
Olga Kharlan  
expanded information box  
**Notes**  
All information is correct and factual

Rank	Poins	Name	Country	Hand	Age
3	231.000	Olga Kharlan	Ukraine	R	34

fencer_id	first_name	last_name	fencer_photo	nationality
107	Olga	Kharlan	Static/...	Ukrainian

gender	age	category	weapon	hand	rank	language
Female	34	Senior	Sabre	R	3	English,Russian,Ukrainian

occupation	license_number	story
Athlete	94091990000	Olga Kharlan, a Ukrainian fencer from Mykolaiv discovered her passion for...

Rank	Name	Nationality	Weapon	Gender	Hand	Age
3	Olga Kharlan	Ukrainian	Sabre	Female	R	34

## - Calendar -

**What**  
Olga Kharlan  
expanded information box  
**Notes**  
All information is correct and factual



event_name	start_date	end_date	location	type	category	weapon	gender
Epee Grand Prix	2024-01-31	2024-01-31	Doha,Qatar	Individual	Senior	Epee	Male

### Events in Month

Epee Grand Prix  
Date: 2024-01-31  
Gender: Male  
Location: Doha, Qatar  
Weapon: Epee

**What**  
Olga Kharlan  
expanded information box  
**Notes**  
All information is correct and factual



event_name	start_date	end_date	location
Commonwealth Junior and Cadet Fencing Championship	2024-07-12	2024-07-13	Christchurch,New Zealand

### Events in Month

Commonwealth Junior and Cadet Fencing Championship  
Date: 2024-07-12  
Gender: Male  
Location: Christchurch,New Zealand  
Weapon: Epee - Foil - Sabre

**What**  
Olga Kharlan  
expanded information box  
**Notes**



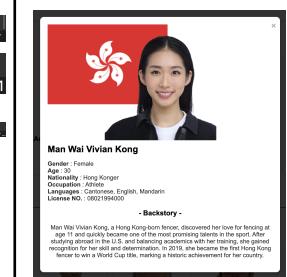
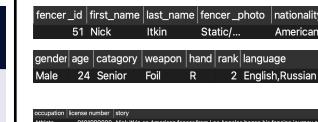
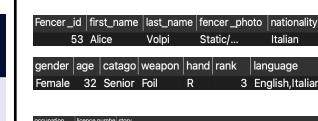
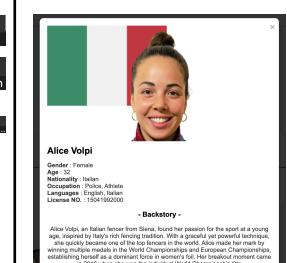
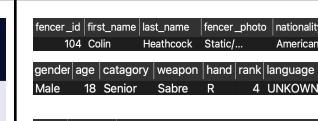
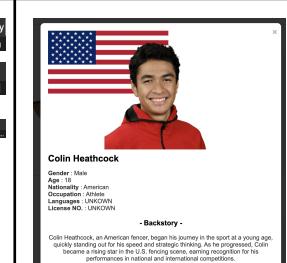
event_name	start_date	end_date	location
Veterans World Championships	2024-10-13	2024-10-13	Dubai,United Arab Emirates

### Events in Month

Veterans World Championships  
Date: 2024-10-13  
Gender: Male/Femal  
Location: Dubai,United Arab Emirates  
Weapon: Epee - Foil - Sabre

All information is correct and factual

## - Stories -

<p><b>What</b> Mohamed Elsayed expanded information box <b>Notes</b> All information is correct and factual</p>	 <p>fencer_id   first_name   last_name   fencer_photo   nationality 1 Mohamed Elsayed Static/Images/Fencer_photos/Elsayed.png nationality   c   gender   age   catago   weapon   hanc   rank Egyptian Male 21 Senior Epee R 4 language   occupation   license number Arabic,English Student 3032003002 story Mohamed Elsayed, an Egyptian fencer from Cairo, discovered his passion for the sport at age 10 after watching fencers at a local sports club. Despite his small stature, he quickly showed promise and began competing in regional tournaments. By 15, he was competing in national tournaments, and at 17, he joined the Egyptian national team. In 2021, he participated in the Tokyo Olympics, where his impressive performance showcased his talent, despite not medaling.</p>	 <p>fencer_id   first_name   last_name   fencer_photo   nationality 1 Mohamed Elsayed Static/Images/Fencer_photos/Elsayed.png nationality   c   gender   age   catago   weapon   hanc   rank Egyptian Male 21 Senior Epee R 4 language   occupation   license number Arabic,English Student 3032003002 story Mohamed Elsayed, an Egyptian fencer from Cairo, discovered his passion for the sport at age 10 after watching fencers at a local sports club. Despite his small stature, he quickly showed promise and began competing in regional tournaments. By 15, he was competing in national tournaments, and at 17, he joined the Egyptian national team. In 2021, he participated in the Tokyo Olympics, where his impressive performance showcased his talent, despite not medaling.</p>	 <p>Mohamed Elsayed Gender: Male Age: 21 Nationality: Egyptian Occupation: Student Languages: Arabic, English License NO.: 3032003002 - Backstory - Mohamed Elsayed, an Egyptian fencer from Cairo, discovered his passion for the sport at age 10 after watching fencers at a local sports club. Despite his small stature, he quickly showed promise and began competing in regional tournaments. By 15, he was competing in national tournaments, and at 17, he joined the Egyptian national team. In 2021, he participated in the Tokyo Olympics, where his impressive performance showcased his talent, despite not medaling.</p>
<p><b>What</b> Tamás Mate Koch expanded information box <b>Notes</b> All information is correct and factual</p>	 <p>fencer_id   first_name   last_name   fencer_photo   nationality 2 Tamás Mate Koch Static/Images/... Hungarian gender   age   catago   weapon   hanc   rank   language Male 24 Senior Epee R 1 Hungarian occupation   license number   story Student 1807999004 Tamás Mate Koch is primarily known as a fencer. He is a Hungarian épée fencer who has represented Hungary in international competitions. He has competed in numerous international fencing competitions and has represented Hungary in various tournaments. Koch's fencing career has brought him recognition and accolades within the fencing community.</p>	 <p>fencer_id   first_name   last_name   fencer_photo   nationality 2 Tamás Mate Koch Static/Images/... Hungarian gender   age   catago   weapon   hanc   rank   language Male 24 Senior Epee R 1 Hungarian occupation   license number   story Student 1807999004 Tamás Mate Koch is primarily known as a fencer. He is a Hungarian épée fencer who has represented Hungary in international competitions. He has competed in numerous international fencing competitions and has represented Hungary in various tournaments. Koch's fencing career has brought him recognition and accolades within the fencing community.</p>	 <p>Tamás Mate Koch Gender: Male Age: 24 Nationality: Hungarian Occupation: Student Languages: Hungarian License NO.: 1807999004 - Backstory - Tamás Mate Koch is primarily known as a fencer. He is a Hungarian épée fencer who has represented Hungary in international competitions. He has competed in numerous international fencing competitions and has represented Hungary in various tournaments. Koch's fencing career has brought him recognition and accolades within the fencing community.</p>
<p><b>What</b> Man Wai Vivian Kong expanded information box <b>Notes</b> All information is correct and factual</p>	 <p>Fencer   first_name   last_name   fencer_photo   nationality 1 Man Wai Vivian Kong Static/... Hong Konger gender   age   catago   weapon   hand   rank   language Female 30 Senior Epee L 1 occupation   license number   story Athlete 910199000 Alice Man Wai Vivian Kong is a Hong Kong-based fencer. She discovered her love for fencing at age 17 and began her journey in the sport. After dedicating herself to training and competing in tournaments, she started competing in the U.S. and balancing academics with her training. She gained recognition for her performances and won several medals. In 2021, she became the first Hong Kong fencer to win a World Cup title, marking a historic achievement for her country.</p>	 <p>Fencer   first_name   last_name   fencer_photo   nationality 1 Man Wai Vivian Kong Static/... Hong Konger gender   age   catago   weapon   hand   rank   language Female 30 Senior Epee L 1 occupation   license number   story Athlete 910199000 Alice Man Wai Vivian Kong is a Hong Kong-based fencer. She discovered her love for fencing at age 17 and began her journey in the sport. After dedicating herself to training and competing in tournaments, she started competing in the U.S. and balancing academics with her training. She gained recognition for her performances and won several medals. In 2021, she became the first Hong Kong fencer to win a World Cup title, marking a historic achievement for her country.</p>	 <p>Man Wai Vivian Kong Gender: Female Age: 30 Nationality: Hong Konger Occupation: Athlete Languages: Cantonese, English, Mandarin License NO.: 0602199000 - Backstory - Alice Man Wai Vivian Kong, a Hong Kong-born fencer, discovered her love for fencing at age 17 and began her journey in the sport. After dedicating herself to training and competing in tournaments, she started competing in the U.S. and balancing academics with her training. She gained recognition for her performances and won several medals. In 2021, she became the first Hong Kong fencer to win a World Cup title, marking a historic achievement for her country.</p>
<p><b>What</b> Nick Itkin expanded information box <b>Notes</b> All information is correct and factual</p>	 <p>fencer_id   first_name   last_name   fencer_photo   nationality 51 Nick Itkin Static/... American gender   age   catago   weapon   hand   rank   language Male 24 Senior Foil R 2 English,Russian occupation   license number   story Athlete 910199000 Nick Itkin, an American fencer from Los Angeles, began his fencing journey at age 9. Through dedicated training and competition, he quickly rose through the ranks. With a competitive spirit, Nick quickly moved up through the ranks, becoming a dominant force in the U.S. fencing scene. In 2021, he participated in the Tokyo Olympics and secured his place on the U.S. Olympic team for the 2021 Games.</p>	 <p>fencer_id   first_name   last_name   fencer_photo   nationality 51 Nick Itkin Static/... American gender   age   catago   weapon   hand   rank   language Male 24 Senior Foil R 2 English,Russian occupation   license number   story Athlete 910199000 Nick Itkin, an American fencer from Los Angeles, began his fencing journey at age 9. Through dedicated training and competition, he quickly rose through the ranks. With a competitive spirit, Nick quickly moved up through the ranks, becoming a dominant force in the U.S. fencing scene. In 2021, he participated in the Tokyo Olympics and secured his place on the U.S. Olympic team for the 2021 Games.</p>	 <p>Nick Itkin Gender: Male Age: 24 Nationality: American Occupation: Athlete Languages: English, Russian License NO.: 910199000 - Backstory - Nick Itkin, an American fencer from Los Angeles, began his fencing journey at age 9. Through dedicated training and competition, he quickly rose through the ranks. With a competitive spirit, Nick quickly moved up through the ranks, becoming a dominant force in the U.S. fencing scene. In 2021, he participated in the Tokyo Olympics and secured his place on the U.S. Olympic team for the 2021 Games.</p>
<p><b>What</b> Alice Volpi expanded information box <b>Notes</b> All information is correct and factual</p>	 <p>Fencer   first_name   last_name   fencer_photo   nationality 53 Alice Volpi Static/... Italian gender   age   catago   weapon   hand   rank   language Female 32 Senior Foil R 3 English,Italian occupation   license number   story Athlete 1604199000 Alice Volpi, an Italian fencer from Siena, found her passion for the sport at a young age, inspired by Italy's rich fencing tradition. With a great deal of dedication and hard work, Alice quickly rose through the ranks. She participated in numerous international competitions, winning multiple medals in the World Championships and European Championships, establishing herself as one of the top fencers in the world. In 2019, she won the individual World Championship title.</p>	 <p>Fencer   first_name   last_name   fencer_photo   nationality 53 Alice Volpi Static/... Italian gender   age   catago   weapon   hand   rank   language Female 32 Senior Foil R 3 English,Italian occupation   license number   story Athlete 1604199000 Alice Volpi, an Italian fencer from Siena, found her passion for the sport at a young age, inspired by Italy's rich fencing tradition. With a great deal of dedication and hard work, Alice quickly rose through the ranks. She participated in numerous international competitions, winning multiple medals in the World Championships and European Championships, establishing herself as one of the top fencers in the world. In 2019, she won the individual World Championship title.</p>	 <p>Alice Volpi Gender: Female Age: 32 Nationality: Italian Occupation: Athlete Languages: English, Italian License NO.: 1604199000 - Backstory - Alice Volpi, an Italian fencer from Siena, found her passion for the sport at a young age, inspired by Italy's rich fencing tradition. With a great deal of dedication and hard work, Alice quickly rose through the ranks. She participated in numerous international competitions, winning multiple medals in the World Championships and European Championships, establishing herself as one of the top fencers in the world. In 2019, she won the individual World Championship title.</p>
<p><b>What</b> Colin Heathcock expanded information box <b>Notes</b> All information is correct and factual</p>	 <p>fencer_id   first_name   last_name   fencer_photo   nationality 104 Colin Heathcock Static/... American gender   age   catago   weapon   hand   rank   language Male 18 Senior Sabre R 4 UNKNOWN occupation   license number   story Athlete UNKNOWN Colin Heathcock, an American fencer, began his journey in the sport at a young age, showing an early interest in the sport. Through dedicated training and competition, he quickly rose through the ranks. With a competitive spirit, Colin quickly moved up through the ranks, becoming a dominant force in the U.S. fencing scene. In 2021, he participated in the Tokyo Olympics and secured his place on the U.S. Olympic team for the 2021 Games.</p>	 <p>fencer_id   first_name   last_name   fencer_photo   nationality 104 Colin Heathcock Static/... American gender   age   catago   weapon   hand   rank   language Male 18 Senior Sabre R 4 UNKNOWN occupation   license number   story Athlete UNKNOWN Colin Heathcock, an American fencer, began his journey in the sport at a young age, showing an early interest in the sport. Through dedicated training and competition, he quickly rose through the ranks. With a competitive spirit, Colin quickly moved up through the ranks, becoming a dominant force in the U.S. fencing scene. In 2021, he participated in the Tokyo Olympics and secured his place on the U.S. Olympic team for the 2021 Games.</p>	 <p>Colin Heathcock Gender: Male Age: 18 Nationality: American Occupation: Athlete Languages: UNKNOWN License NO.: UNKNOWN - Backstory - Colin Heathcock, an American fencer, began his journey in the sport at a young age, showing an early interest in the sport. Through dedicated training and competition, he quickly rose through the ranks. With a competitive spirit, Colin quickly moved up through the ranks, becoming a dominant force in the U.S. fencing scene. In 2021, he participated in the Tokyo Olympics and secured his place on the U.S. Olympic team for the 2021 Games.</p>

## What

Olga Kharlan  
expanded information box

## Notes

All information is correct  
and factual

KHARLAN Olga

Fencer\_Id: 107 first\_name: Olga last\_name: Kharlan fencer\_photo: Static/... nationality: Ukrainian

gender: Female age: 33 catalogo\_weapon: Sabre hand: R rank: 3 language: English,Russian,Ukrainian

Personal Information: Name: Olga Kharlan, Surname: Kharlan, Middle Name: N/A, Date of Birth: 1986-01-01, Place of Birth: Mykolaiv, Ukraine, Nationality: Ukrainian, Gender: Female, Marital Status: Single, Height: 175 cm, Weight: 65 kg, Blood Type: A+, Eye Color: Brown, Hair Color: Light Brown, Languages: English, Russian, Ukrainian, License No.: 0409190000, License Date: 2023-01-01, License Valid Until: 2026-01-01, Last Update: 2023-01-01, Last Update By: Admin, Last Update Reason: Profile updated by administrator.

Statuses: Active, Training, Competing, Retired, Injured, Suspended, Quarantine, Quarantine End Date: 2023-01-01, Quarantine End Reason: Quarantine ended.

Occupation: Athlete, Licence Number: 0409190000, Athlete Name: Olga Kharlan, Athlete Description: Ukrainian fencer from Mykolaiv who discovered her passion for fencing at a young age, quickly rising to prominence with her exceptional speed and technical skill. She has won numerous medals at international competitions, including multiple World and European Championship titles. Her breakthrough came in 2010 when she won a silver medal in the women's sabre category for the Ukrainian team, establishing herself as one of the sport's greats.

Olga Kharlan

Gender: Female  
Age: 33  
Nationality: Ukrainian  
Occupation: Athlete  
Languages: English, Russian, Ukrainian  
License No.: 0409190000

- Backstory -

Olga Kharlan, a Ukrainian fencer from Mykolaiv, discovered her passion for fencing at a young age, quickly rising to prominence with her exceptional speed and technical skill. She has won numerous medals at international competitions, including multiple World and European Championship titles. Her breakthrough came in 2010 when she won a silver medal in the women's sabre category for the Ukrainian team, establishing herself as one of the sport's greats.

# - FeedBack -

## Sheldon Ogilvie (Coach)

The website looks really clean and modern, which is nice. I love the overall design and the moving header! (1) One thing I'd really like to see, though, is in the calendar page would it be able to check the information about events, like the date and gender categories. Having that info would make it a lot easier than doing a google.

Thanks, Sheldon

## Tamsyn Campbell (Coach)

What a wonderful website Zeyad :). I really like how you've managed to space everything out nicely and keep a consistent colour scheme, And when you told me that the password is jumbled I was super impressed at how professional it was. I can't find any fault in the website.

## William Cochrane (Fencer)

The website looks nice, there are a few things that could be improved though.  
(1) When registering the website let me put in a million digits of pi without any problem, and the database received it.  
(2) If you click login but you don't have login details and don't want to register then you can't get back because there is no back button.

## Peraksana (Student)

- (1) Website looks nice.
- (2) I am wondering about the ranking. Why if I choose a weapon it only returns the table with that weapon like Sabre instead of having other weapons come after it?
- (3) For the female fencer info, some things have not been put into the database I assume?
- (4) Social media in the footer could link to something.
- (5) Login works nicely
- (6) Add features that can enable you to see the password? Eg: when logging in or registering
- (7) Could there be an admin feature that can add, delete or change any of your databases?
- (8) Is there anything else that the user can do after logging in?
- (9) Error pages work

## Mr Dunford (Teacher)

- None is populated into the fields in the profile - this is not ok.
- Profile photo doesn't stick
- X documenting the program with appropriate names and comments that describe code function and behaviour

eg: encryption of password - comment should be what lib you are using, and why

- testing to show that circumventing field length and then pasting 2TB of text in doesn't break anything like the db
- More testing required, test ALL the things.

## Finn Rooney (Student)

"His website is incredibly fluid and precise, I didn't have to spend any time worrying about having difficulty trying to find an important page like the rankings.

- (1) Something to work on could be adding the Instagram, X and Facebook page links

### Finn Rooney (Student)

as not having them breaks immersion.  
Everything else is amazing in my opinion."

### Rana (Mother)

The website looks fantastic and easy to use and to find what I'm looking for. When I entered the ranking I was impressed with all the information I have found and how smooth and fluid. In addition the hover effect was marvellous to see as it gives the page a professional look that will keep me wanting to join each one of them to read more about it.

(1) For improvement I would like to see some photos that describe what fencing is so I can put the visualise with the word.

### Franklin (Student)

(1) For the ranking page, the initial page displays 50 people, but when I press "NEXT", it changes to displaying 10.

### Jess (Student)

(1) The calendar is irritating. Maybe if you clicked on the day with the blue box(which could be bigger) it could open the info either where it already is or as a pop-up in front of the calendar.

Good colour scheme and minimalist design. (2) Navigation things on the story page feel out of place and kinda pointless, also not obvious what they are.

(3) What does having a login do?

# - FeedBack Fixing -

## Sheldon Ogilvie (Coach)

(1) Information about events now displays in the calendar page under the name

Events in Month

Commonwealth Junior and Cadet Fencing Championship ▾  
Date: 2024-07-12  
Gender: Male  
Location: Christchurch, New Zealand  
Weapon: Epee - Foil - Sabre

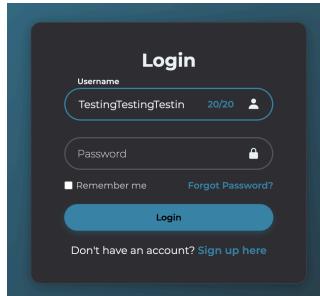
## Tamsyn Campbell (Coach)

Thank you :!!!!.

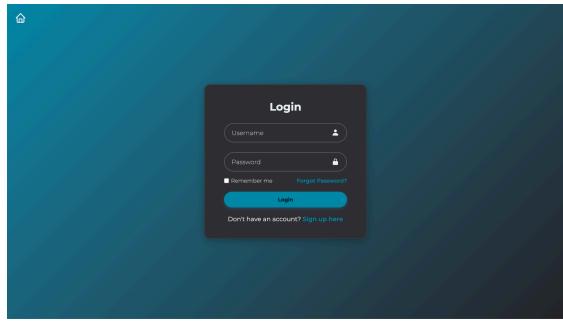
## William Cochrane (Fencer)

(1)

There is now a 20 character limit for registering (Username and email) and Login (Username)



(2) Home button is existent now



## Peraksana (Student)

(2)

Pagination does have an issue where it does not stay in its corresponding weapon, Having gotten alot of feedback about this but have been unable to fix it, I have removed the pagination.

(3)

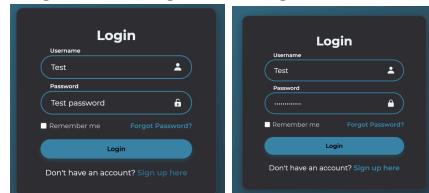
Finished, Women fencers now have all the necessary information.



(4)

Heard alot of people complain about this, I believe it will take too much time to create a fake page on all three platforms and is not necessary to the function of the website

(6) Done, Password now shows when the user clicks on the lock button in the login page and register page.



(7)

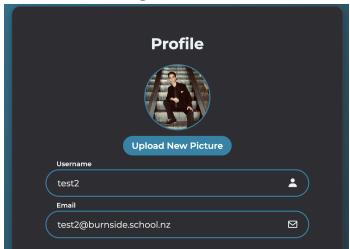
I like this idea, however it will take too

## Mr Dunford (Teacher)

(1) This has now been fixed and doesn't populate anything if there is no information



(2) Profile picture will now stick even when the user signs out and back in.



(3) Program now has concise but informative comments that describe the code function and behaviour.

```
app = Flask(__name__, template_folder='templates', static_folder='Static')
app.secret_key = os.urandom(24) # Secret key for session management
# Using os.urandom(24) generates a 24-byte random key,
# ensuring that the secret key is unique and unpredictable.
```

(4) Circumventing field length and then pasting anything over 30 characters will lead to an error therefore not inputting anything into the database

```
# Validate that the username and email do not exceed 20 characters to
# ensure data consistency and database integrity
if len(username) > 20:
    flash("Username must not exceed 20 characters!", "error")
    return redirect(url_for('registerpage'))

if len(email) > 30:
    flash("Username must not exceed 20 characters!", "error")
    return redirect(url_for('registerpage'))
```

## Franklin (Student)

(1) Heard alot about the Pagination, And having not been able to solve the issue in time for submission, I have decided to get rid of it and display all 50 fencers at a time.

much time to implement and would not want anyone changing information. All information is from the official FIE page.

(8)

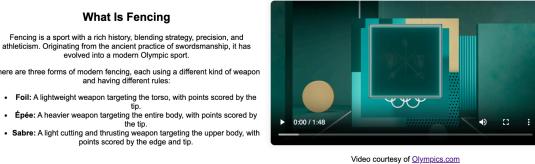
Currently all you can do is edit your information through the profile page.

## Finn Rooney (Student)

(1) Heard a lot of people complain about this, I believe it will take too much time to create a fake page on all three platforms and is not necessary to the function of the website

## Rana (Mother)

(1) In the about fencing page, we now have a video that describes what fencing is, the video is directly from the official olympics page.



## Jess (Student)

(1) I will try to do this if possible

(2) Navigation things on the story page feel out of place and kinda pointless, also not obvious what they are.

(3) Login Currently does not do anything except allow the user to input more information about themselves in the database.

## Addressing Relevant implications (Web)

### 👉User-friendly navigation and interface👉

This website was based around this relevant implication. It ensures that users can easily navigate through its pages, with clearly labelled buttons that are intuitive and accessible. With also clear layouts that ensure a minimalistic and user friendly interface that allows the user to navigate around with minimal issues.

### 👉Usability👉

Usability was a key aspect when designing my website. I aimed for an experience that is easy for all users, including those with little technical knowledge. Clear instructions, an intuitive design, and simple navigation are essential features, such as easy to understand words in the navbar and buttons that inform the user what will happen, to help users accomplish their tasks without confusion or frustration. By prioritising good usability, I've reduced the learning curve with functions that directly correspond with real life choices (Pressing the lock button will "unlock" the password), minimised errors through error messages that accurately describe the situation, and increased overall user satisfaction. This encourages frequent use and greater engagement with the site.

### 👉Functionality👉

Functionality is one of the most crucial aspects of my website. It ensures that all features and services work as intended. Users should be able to smoothly navigate through the site and access key information or services like the login page and the rankings page without any issues. I've implemented functions such as a search bar and interactive buttons to enhance interaction, ensuring everything operates efficiently.

## Addressing Relevant implications (Database)

### 👉Data Integrity👉

To ensure data integrity in the database, I implement several key practices. First, I use validation rules to prevent incorrect or incomplete data entry, ensuring that all fields are properly filled out before submission. To maintain Data integrity, I provided a table with examples of where data integrity has been achieved.

### 👉Intellectual property👉

During the creation and insertion of my database, I ensured that no Intellectual property was used without the correct means. With all information concerning "fencers" and "events" coming directly from the official and public FIE.org website.

In addition, to avoid any potential copyright infringement or misuse of proprietary content, I made sure to check the terms and conditions of the FIE.org website regarding data usage and public accessibility. All visual content, such as logos or images, were either created by me or acquired under appropriate licences (creative commons licence).

### 👉Privacy👉

Privacy was a key focus when building the login system for my high school website. By using "os.urandom(24)" to hash the passwords, I made sure that passwords were stored securely and couldn't be easily guessed or stolen. This method turns the password into a long string of random characters, making it much harder for someone to hack into the system.

For example, instead of saving the actual password, I saved a scrambled version, so if anyone ever gained access to the database, they wouldn't be able to see the real password. Finally, the website only asks for basic information from users to limit any risks to their privacy.

## Checklist for planning

<b>What is your project about, who is it for, what does it do.</b>	
<b>Database notes and design (tables AND ER diagram)</b>	Milanote
<b>Website layout and design including fonts &amp; colours</b>	Milanote
<b>routes* / function signatures** for each page</b>	Milanote
<b>Database queries for each route (SQL query/queries) and expected sample results</b>	
<b>Any justifications for your design (stakeholder feedback, scientific research, accepted best practice etc) / Relevant implications</b>	