

AIKIDO PRETORIA WEBSITE

1. PROJECT OVERVIEW

HTML and CSS were used to create the Aikido Pretoria website. This project involves front-end web development.

Revamping and redesigning aspects of the old website was the project's main objective. This would make it more user-friendly, informative, navigable, and aesthetically pleasing. This is not only for students interested in Aikido classes and philosophy, but also for the instructors to navigate the classes and information more easily.

The website provides the following information:

- Principles and just general information about Aikido itself.
- In-depth details about the dojo, including the location, contact details, and all class times.
- The different instructors' profiles.
- All the upcoming activities and events are shown on a news page.
- There is also a contact form for any necessary enquiries.

The project seeks to promote Aikido in Pretoria. This is done by providing a clean, polished, user-friendly, accessible and professional web presence.

2. PURPOSE OF THE PROJECT

The purpose of this website is to:

- To inform people about Aikido and what it is.
- To provide information about the club in Pretoria, including the venue, the schedule and all the necessary contact information.
- Provide a communication channel through the website's contact form to encourage and motivate potential new memberships and signups.
- Show the club's upcoming events on the events and news page to keep people informed.
- Show that Aikido Pretoria is a unified online identity.

3. WEBSITE STRUCTURE

The website consists of multiple pages linked together, built with HTML and CSS.

Main Pages:

1. Home page: A welcome section introducing Aikido Pretoria.
2. The Art of Aikido page: The origin and overview of Aikido and its philosophies and practice.

3. Instructors page: Overview of the instructors and their experience, showing their profile descriptions.
4. The Dojo page: Any Information about the venue itself, as well as the dojo etiquette that is followed.
5. News and Events page: Any upcoming classes, workshops, and potential events.
6. Contact page: Details about the venue, such as the location and GPS Coordinates, training times, email addresses, phone numbers and an enquiry form.
7. Login page: It is for member login, but it is a placeholder since it is a future functionality.

4. TECHNOLOGIES USED

HTML: Used for the website's overall structure and content layout.

CSS: All Styling, colours, fonts and all responsive design.

VS Code: All code editing

Web Browser: To test and preview the website (Either in Edge or Chrome)

5. DATABASE SCHEMA AND ERD

Proposed Database Schema:

Table: customers

Field	Type	Description
customer_id	INT(PK, AUTO_INCREMENT)	Unique customer ID
full_name	VARCHAR(255)	Customer's full name
email	VARCHAR(255), UNIQUE	Customer's email address
phone_number	VARCHAR(20)	Contact number
date_joined	TIMESTAMP	Automatically records date joined

Table: contact_messages

Field	Type	Description
message_id	INT(PK, AUTO_INCREMENT)	Unique message ID
customer_id	INT(FK)	Links message to customer (nullable)
name	VARCHAR(255)	Sender's name

email	VARCHAR(255)	Sender's email address
subject	VARCHAR(255)	Subject of message
message	TEXT	Message Content
submitted_at	TIMESTAMP	Date and time message was submitted

Foreign Key:

customer_id – references customers(customer_id)

On delete: SET NULL

Table: class_registrations

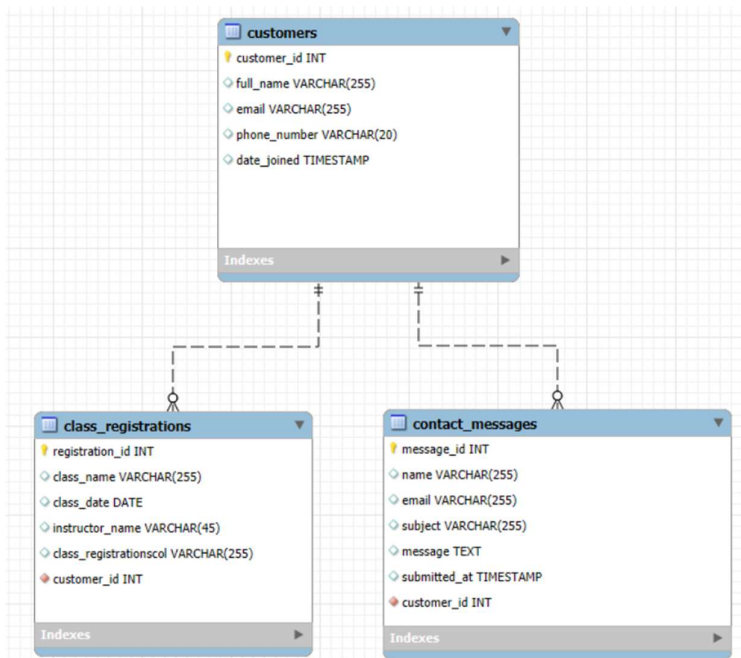
Field	Type	Description
registration_id	INT(PK, AUTO_INCREMENT)	Unique registration ID
customer_id	INT(FK)	Links registration to customer
class_name	VARCHAR(255)	Class name (e.g. "Beginner Aikido", "Kids Class")
class_date	DATE	Date of class
instructor_name	VARCHAR(255)	Instructor's name

Foreign Key:

customer_id – references customers(customer_id)

On delete: CASCADE

Proposed ERD:



6. CHALLENGES AND SOLUTIONS

Wireframe Initial Designs

Challenge:

- The Initial wireframes created for the Aikido Pretoria website were challenging. A simple, user-friendly design was decided on that complemented the dojo's aesthetic and organised the information effectively.

Solution:

Before coding, the team used free online tools, such as Figma. This helped plan the website's overall layout. This helped to focus on consistent colour themes and navigation flow that matched the dojos. The final wireframe was only approved for development after the team's feedback was used to refine it.

Transferring of Relative Data

Challenge:

- It was quite challenging to maintain accuracy and good formatting when moving the website content, such as class times, contact information, and descriptions, from older sources or documents.

Solution:

The team had to consistently verify each piece of content against the dojo's official information. This was done using consistent HTML structures to make the data more readable and easier to update. Updates could be tracked using version control through shared folders to avoid confusion.

Checking if Relative Links and Info Are Still Accessible

Challenge:

- It was quite challenging to ensure that all internal links between the pages (e.g., the Home page, The Art of Aikido page, and the Contact page) and external links (e.g., email or GPS) worked correctly.

Solution:

The team had to test all the hyperlinks. The local HTML paths were used to do this. Then, to keep consistent relative linking, the file locations were adjusted. They also used several browser developer tools to check for broken links and ensured that all URLs and email links were active before submission.

7. FUTURE IMPROVEMENTS

JavaScript can be used for interactivity; examples can include form validation and animations. A database and login functionality can be added using Python. The website can be made mobile-responsive by using a hamburger menu. In the future, a gallery section can be added with photos from all the events.

8. TEAM MEMBERS

Andre Scheepers, u20417162: Front-end developer / Page developer

Liandi Van Der Spek, u21436470: Front-end developer/ Page developer

Erica Roberts, u22511263: Content and text editor/CSS designer

Alicia Naudé, u22744241: Testing and documentation

9. CONCLUSION

The updated and redesigned Aikido Pretoria website effectively displays dojo information in a modern, simple, and expertly designed manner. It provides a solid foundation on which to build future websites with databases, member management features and interactive elements.