

WEATHCON

WeathCon

SCSCBC 158 St George St, Toronto

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Project 1 Title: WeathCon

Team Number:	2
Team Name:	WeathCon (@SCScbc-Projects2022)

Team Members:

Name	Email Contact
To, Veronica Tai Chi (@TOVTC)	veronica.tc.to@outlook.com
Sillaots, Cory (@CorySillaots)	csillaots@gmail.com
Hall, Candice (@candiecane7)	hall.candice@outlook.com
Merrett, Brennan (@BrennanJLM)	merrett.b@gmail.com

Logo

Logo:



Favicon:



Baseline Project Board Website Link and Screenshots

<https://github.com/SCScbc-Projects2022>

The screenshot shows a GitHub project board for the repository 'SCScbc-Projects2022 / WeathCon-project-one'. The board has a single column titled 'To do' with 8 items:

- Structural HTML, CSS and JS (#2 opened by CorySillaots)
- Error Handling (#8 opened by TOVTC)
- Currency API (#5 opened by TOVTC)
- Time Conversion (#4 opened by CorySillaots)
- Streamline Code (#7 opened by CorySillaots)
- Weather API (#3 opened by SCScbc-Projects2022)
- CSS styling (#1 opened by SCScbc-Projects2022)
- "First Page" + dynamic header (#6 opened by BrennanJLM)

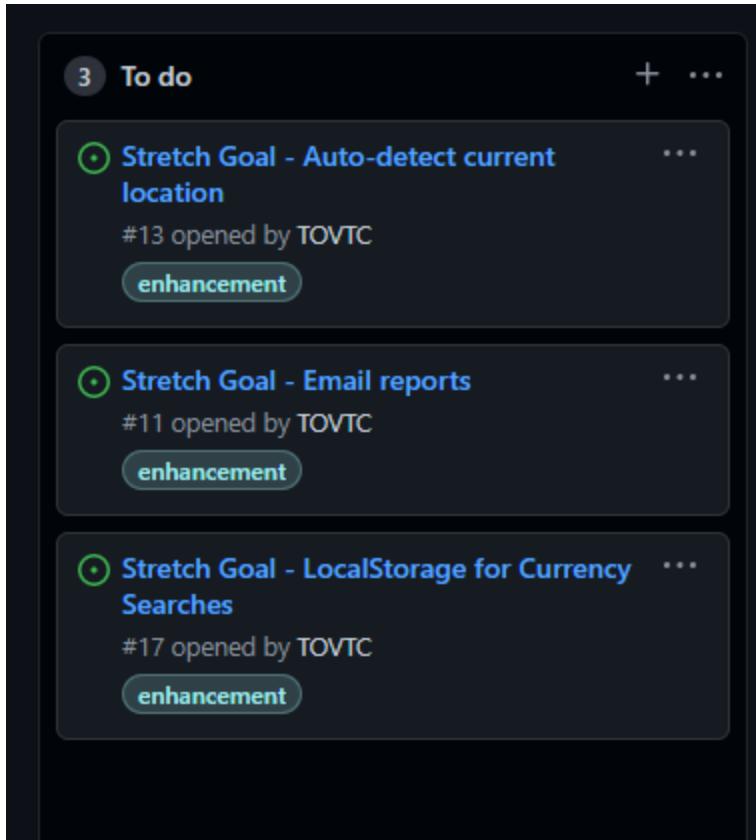
Each item has a 'Structural' label and a small profile picture next to it.

Project Board at Project Completion:

The image shows a project board with two columns of completed tasks. The left column, titled "Completed", contains 8 items. The right column, titled "Completed (Column Two)", contains 7 items. Each task card includes a title, a checkmark icon, a link, a user mention, a label, and a profile picture.

Column	Task Title	Link	User	Type	Profile Picture
Completed (Column One)	Structural HTML, CSS and JS	#2	opened by CorySillaots	Structural	
Completed (Column One)	First Page and HTML Page Links	#6	opened by BrennanJLM	Structural	
Completed (Column One)	Weather API	#3	opened by SCScbc-Projects2022	Structural	
Completed (Column One)	Currency API	#5	opened by TOVTC	Structural	
Completed (Column One)	Time Conversion	#4	opened by CorySillaots	Structural	
Completed (Column One)	Recent Search Buttons	#15	opened by candiecane7	enhancement	
Completed (Column One)	Modals	#16	opened by TOVTC	enhancement	
Completed (Column One)	Error Handling	#8	opened by TOVTC	Structural	
Completed (Column Two)	Auto-populate search queries	#12	opened by TOVTC	enhancement	
Completed (Column Two)	Redirect to Primary Layout	#9	opened by TOVTC	enhancement	
Completed (Column Two)	Debugging	#14	opened by candiecane7	bug	
Completed (Column Two)	CSS styling	#1	opened by SCScbc-Projects2022	enhancement	
Completed (Column Two)	Mobile-Friendly UI	#18	opened by TOVTC	enhancement	
Completed (Column Two)	Streamline Code	#7	opened by CorySillaots	documentation	
Completed (Column Two)	Update README.md	#10	opened by TOVTC	documentation	

Automated as [Done](#) [Manage](#)



Project Description (High Level):

A weather report + time and currency converter for travel.

Motivation

Centralizing multiple planning applications increases convenience in trip planning.

User Stories

User Story

AS a USER PLANNING A TRIP

I WANT to know the weather, currency, and time conversions for my destination
SO THAT I can make better plans for my trip

Acceptance Criteria

WHEN I load up WeathCon

THEN I am presented with the option to input my current location and my destination location

WHEN I input a location
THEN I am presented with the time conversion and 24-hour time zone differential for that location
AND I am presented with the 1:1 currency conversion that location uses
AND I am presented with the current and forecast weather for that location

WHEN I am presented with the currency of my destination
THEN I am given the option to select a value to convert from in a dropdown
AND I am able to convert from my current currency to the destination currency

WHEN I am presented with the weather forecast for my destination
THEN I am given the option to select a length of forecast for my destination
AND I am able to see a dynamic forecast for that location

Additional Features:

User Story:

AS a USER PLANNING A TRIP
I WANT to keep a copy of my weather and currency report
SO THAT I can reference it during my trip planning

Acceptance Criteria:

WHEN I have generated a report
THEN I am given the option to enter my email
WHEN I enter my email
THEN I receive a copy of my currency plan and weather report

APIs to be Used:

Resource	URL	Function + API Key
Exchange Rate Host	https://exchangerate.host/#/	Convert Currency
VisualCrossing	https://www.visualcrossing.com/	Get Weather Data Key: UT9ETQEPJ8MCCY3HSCF2Z6358
REST Countries	https://restcountries.com/#api-endpoints-v3-currency	Country to Currency
Countries and Cities API	https://documenter.getpostman.com/view/1134062/T1LJjU52	Get Cities in Specified Country
IP Geolocation	https://ipgeolocation.io/	Convert Timezone fdc6961d9d5d4b60a6fdea5302b0d8f7

Libraries to be Used:

Library	URL	Function
Tailwind	https://cdnjs.cloudflare.com/ajax/libs/tailwindcss/2.2.19/tailwind.min.css	Bootstrap alternative
Moment.js	https://cdnjs.cloudflare.com/ajax/libs/moment.js/2.29.1/moment.min.js	Date and time wrapper
jQuery	https://cdnjs.cloudflare.com/ajax/libs/jquery/3.4.1/jquery.min.js	jQuery main functions - augment JavaScript
jQuery	https://cdnjs.cloudflare.com/ajax/libs/jqueryui/1.12.1/jquery-ui.min.js	jQuery UI - augment jQuery main
jQuery	https://cdnjs.cloudflare.com/ajax/libs/jqueryui-touch-punch/0.2.3/jquery.ui.touch-punch.min.js	jQuery touchpunch - jQuery for mobile
jQuery	https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.15.0/umd/popper.min.js	jQuery popover - jQuery modals

Minimum Viable Product (MVP) Requirements

- On page load, the user is presented with: a header containing the logo and subtitle, two input fields in the middle of the page for the user to input their current and destination cities, a submit button to confirm their choices, a footer with the development team's name, and a black and white background image of a city
- When the user clicks submit, the form fields are dynamically removed and replaced as a single form field in the header
- On the left of the page, the user is also dynamically presented with the name of the destination city, the destination city's current weather, an icon for the current weather, and the forecasted weather for the destination city
 - The user is also presented with a dropdown menu to toggle the length of the forecast requested (5-day, 7-day, 14 day)
- On the right of the page, the user is dynamically presented with the 1:1 currency conversion and the time 24-hour time conversion between their current and destination locations

- The user is also presented with a dropdown menu to toggle the amount of money being converted and are able to preview the amounts in their destination location's currency

Stretch Goals

Stretch Goals:

WHEN I load WeathCon

THEN the page detects my current location

AND the page loads weather and currency information for my current location

WHEN I convert currency

THEN these searches persist in localStorage

WHILE I am still able to drag and drop and double click to delete

Breakdown of Tasks (Ownership by Group Member):

Veronica: Admin/Project Management, Favicon Final, Currency Conversion, Troubleshooting, HTML/JS Restructuring, User Input Handling, API Error Validation, Page Redirects, README

Cory: Initial Concept, Wireframe, Logo/Favicon Concepts, Time Conversion, Presentation Slides, Modals, Custom CSS, Documentation Drive/Discord Management

Brennan: Logo Final, Project Name, Elevator Pitch, CSS

Candice: Foundational HTML + CSS + JavaScript, Front-End Theming, Weather API, Custom CSS + Flexbox, Mobile Responsiveness, Local Storage, Modals, Debugging

Schedule for Completion of Tasks:

Date	Task	Notes
03/28	First Meeting, Concept Brainstorming	17:15
03/29	GitHub Workflow Practice <u>Project Description + Teamwork Agreement Due</u>	18:00
03/30	Follow-Up Planning Meeting, Wireframe, Touch Base Meeting with Antara	20:00
03/31	GitHub Issues, Project Board <u>Project Proposal Due</u>	21:00
04/01	Foundational HTML,CSS, and JS	12:00
04/02	Touch Base with Antara (tentative)	

04/03	Independent Coding	
04/04	Asynchronous Code Check-In	
04/05	Asynchronous Code Check-In	
04/06	Code Check-In, HTML Restructuring, Debugging	
04/07	<u>Presentation Draft Complete</u>	Ideal Submission Date
04/07	<u>Presentation Ready</u>	<u>Presentation Day</u>
04/07	<u>READY MVP</u>	<u>Presentation Day</u>
04/08	Code Modifications, Issue Swap	
04/09	Code Modifications, Debugging	
04/10	Documentation	
04/10	<u>PROJECT POLISH</u>	<u>Project Deadline</u>

Validations:

- index.html
 - No blank fields (departure + destination city & country selected)
 - Modal pop-up for API error redirect from second page
 - If location API call fails to load locations into dropdowns, trigger modal
- page-two.html
 - If any API calls fail, redirect to index.html and trigger error modal
 - If any API calls fail when changing destination, trigger same error modal (page refreshes)
 - If any API calls fail when loading data from a search history query (page does not refresh), pop up modals to display error
 - If invalid input (decimals, non-integer, blank) is entered for conversion, trigger modal

Wireframes:

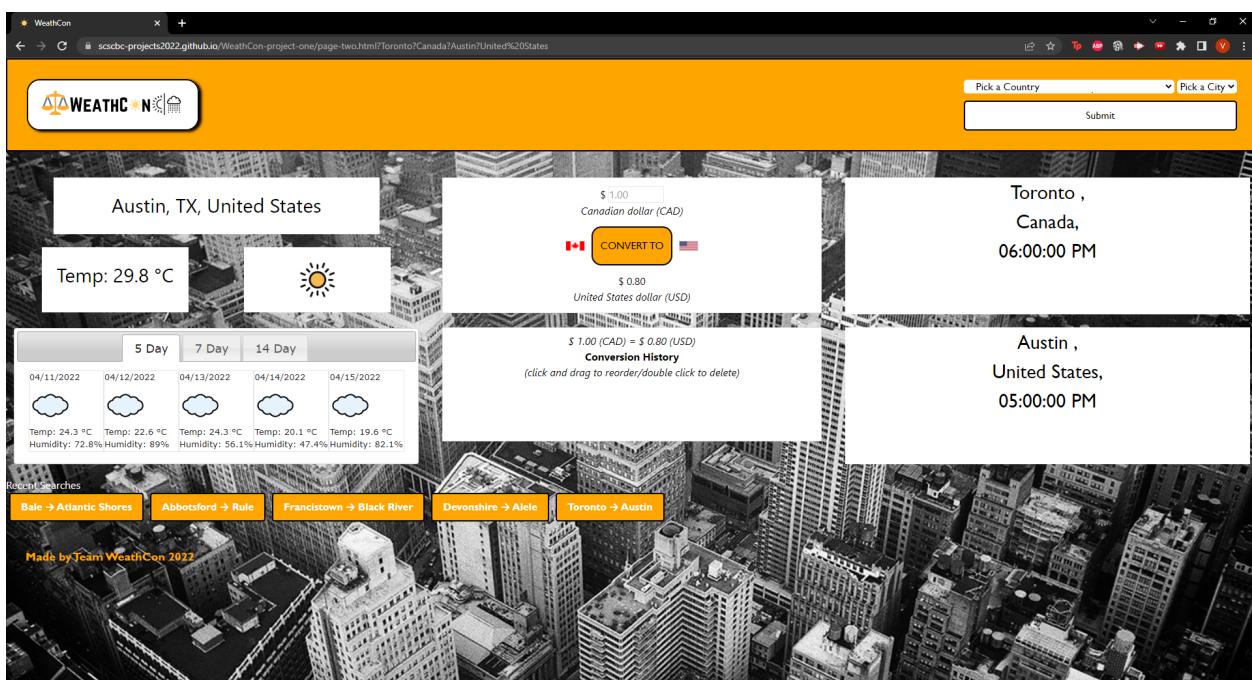
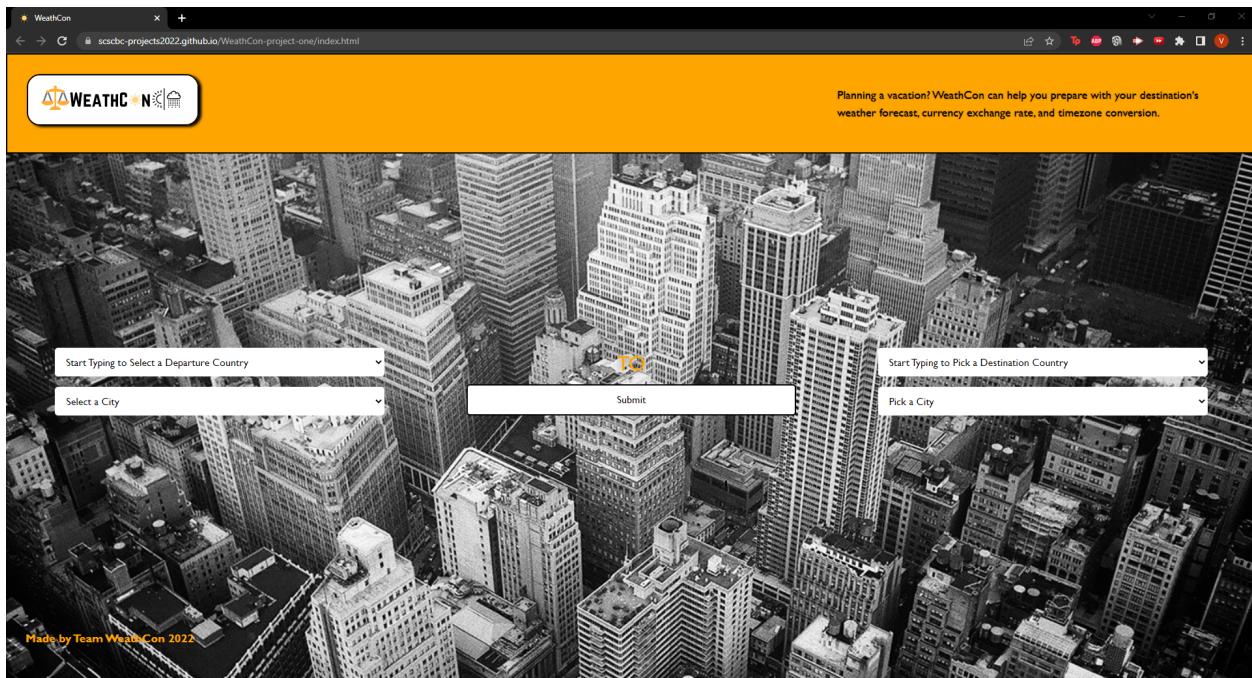
(website design has since changed and adapted to workflow needs)



index.html: On page load, the user is presented with a set of form input fields (now dropdowns) to capture their starting and destination locations (both city and country).

page-two.html: When the user has specified both locations, the user can change their destination location using a dynamically generated dropdown in the header (country and city). The destination city name and weather conditions are displayed on the left. The user can specify the length of the forecast they would like to view. The user is able to preview conversion amounts by entering different amounts in a form field. The user can also see the time differential between their current and destination location.

Deployed Site



<https://scscbc-projects2022.github.io/WeathCon-project-one/>

Website “Components” and/or “Sections”

index.html:

- Header
 - Logo
 - Slogan
- Div-1
 - Departure country dropdown
 - Departure city dropdown
- Div-2
 - “To”
 - Submit Button
- Div-3
 - Destination country dropdown
 - Destination city dropdown
- Footer
 - “Made by” tag

page-two.html (not all nested divs represented for sake of brevity)

- Header
 - Logo
 - New destination form
- Main
 - container-1
 - Title
 - Destination temp
 - Destination weather icon
 - Forecast tabs
 - 5-day
 - 7-day
 - 14-day
 - container-2
 - Conversion rates
 - Amount input form
 - Conversion button and flags
 - Conversion history
 - Base rate conversion
 - Conversion history title
 - Draggable UI
 - Up to 10 previous conversions
 - container-3
 - Departure timezone
 - City, country, time
 - Destination timezone
 - City, country, time

- Button container
 - History search title
 - Up to 9 buttons of recent location search history
- Footer
 - “Made by” tag

Git Workflow, Website Directory Structure:

GIT Workflow

Production Branch Name: Main

Development Branch Name: develop

Naming Convention: **mvp/name-of-section** or **feature/name-of-feature** or **bug/name-of-bug**

Universal Variables: **departure** (user's current location) **destination** (user's searched location)

- Developers will create a local second-copy of their code to prevent accidental over-writes
- Developers will create branches off develop according to the naming convention
- Developers will Git Pull before beginning to code
- Developers will create a new branch to work on one feature/bug (or use their own existing branch if more comfortable)
- Developers will add a comment of the branch name they will be using to code an issue in the issue conversation thread
- Developers will keep to their designated codespace to prevent errors
- Developers will not make changes to branches/code that they did not initiate/were assigned unless a ticket issue is being transferred to another developer
- Developers must notify the team when they are prepared to merge into develop
- Once branches have been merged to develop, all developers must git pull
- Pull requests MUST be reviewed by review pair
- Final merge from develop to main will be reviewed by all group members

```
index.html      JS script.js •  
assets > js > JS script.js > ...  
1  var header = document.querySelector("#header");  
2  var containerOne = document.querySelector("#container-1");|  
3  var containerTwo = document.querySelector("#container-2");  
4  var containerThree = document.querySelector("#container-3");  
5  // departure will be current location, destination will be search location  
6  //Brennan's code here  
7  //Candice's code here  
8  //My code here  
9  //Cory's code here
```

```
index.html      JS script.js •  
assets > js > JS script.js > ...  
1  var header = document.querySelector("#header");  
2  var containerOne = document.querySelector("#container-1");  
3  var containerTwo = document.querySelector("#container-2");  
4  var containerThree = document.querySelector("#container-3");  
5  // departure will be current location, destination will be search location  
6  //Brennan's code here  
7  //Candice's code here  
8  //My code here  
9  var testing = function() {  
10    console.log("example format")  
11  }  
12  //Cory's code here|
```

Code Review and Merge Requests

Week One	
Candice	Brennan
Veronica	Cory
Week Two	
Candice	Cory
Veronica	Brennan

Directory Naming and Structure; Filenames and descriptions

<i>File Name</i>	<i>Function</i>	<i>Notes</i>
WeathCon (root dir)		
index.html	Home page	
page-two.html	Second page	
weathcon-favicon.png	Favicon	Linked to index.html
.gitignore	Prevents unwanted files from being committed	.DS_Store
LICENSE	Usage rights for code	MIT License
README.md	Overview of application	
Assets (dir)		
CSS (dir)		
style.css	Styling for both home and second page	Linked to both index.html and page-two.html
JS (dir)		
script.js	Adds functionality to homepage	Linked to index.html
page-two.js	Adds functionality to second page	Linked to page-two.html
Images (dir)		
weathcon-logo.png	Logo for main page	Linked to index.html
background.jpg	Image for background	Linked to style.css
Weathericons (dir within Images)		
icon.png	Weather icons for weather module	*22 .png icons in total in this folder
Documentation (dir)		
wireframe.jpg	Mock-up of project	
weathcon-one.png	Image of deployed site	Linked to README

weathcon-two.png	Image of page two deployed	Linked to README
project-summary.pdf	Running documentation of the project's progression	
presentation-deck.pdf	Presentation slide deck	
project-board.png	Project board at project completion	

“Stuck Time” Agreement:

The team must identify and agree to a time frame that a team member must use as a limit before reaching out to (a) fellow team members and then (b) the instructional team (in-class) for support. That way, *no one should be stuck for ‘days’ or ‘many hours’ on a task.*

We the team members of WeathCon (*TeamCursed*) agree that the following period of time of investigation (with evidence) is allowed before identifying themselves as being “stuck” or “bottlenecked”, in which case, the team member can then seek the assistance of other team members, the instructional team, or AskBCS for assistance.

Period of time permitted before asking to seek assistance (hours): **one** hour

As agreed upon by the following team members (name and signature below):

Name	Signature
To, Veronica Tai Chi	Veronica To (2022/03/29)
Sillaots, Cory	Cory Sillaots (2022/03/29)
Hall, Candice	Candice Hall (2022/03/29)
Merrett, Brennan	Brennan Merrett (2022/03/29)

Retrospectives – To Be Handed in At the Project Midpoint

Retrospective tentatively scheduled for: **April 3rd**

Due to unforeseen circumstances, retrospectives were completed and submitted separately for each member - the team has been keeping in close communication throughout the project otherwise. See below for retrospectives:

Candice Hall's Retrospective:

Retrospective

1. What was good?		10 MINUTES	Date: Project or Milestone:
Group similar ideas together and discuss.			
great initial communication			
			
2. What was bad?		10 MINUTES	
Group similar ideas together and discuss.			
outside situations causing delays in coding			
			
3. Ideas		10 MINUTES	
Brainstorm ideas to improve problem areas.			
added issue for doing local storage - buttons based on recent searches			
			
4. Actions		10 MINUTES	
Translate ideas into action items.			
still need to complete error handling, update paperwork, close github issues			
			

Cory Sillaots' Retrospective

Retrospective

1. What was good?		10 MINUTES	Date: Project or Milestone:
Group similar ideas together and discuss.			
 <ul style="list-style-type: none">- Communication amongst team members- Teamwork- Idea vs finished product- On the fly adjustments			
2. What was bad?		10 MINUTES	
Group similar ideas together and discuss.			
 <ul style="list-style-type: none">- We thought we had planned enough, but needed backup plans			
3. Ideas		10 MINUTES	
Brainstorm ideas to improve problem areas.			
 <ul style="list-style-type: none">- Take more time in the planning process to reduce on the fly adjustments- Ensure everyone is comfortable with the task that they are given to help with "road blocks"			
4. Actions		10 MINUTES	
Translate ideas into action items.			
 <ul style="list-style-type: none">- Pseudocode more of the project to anticipate challenges- Discuss a common coding language- Matching coding styles as much as possible.			

Veronica To's Retrospective:

Retrospective

Date: TOVTC
Project or Milestone:

1. What was good?	10 MINUTES
<p>Group similar ideas together and discuss.</p> <p>Our team did really well with</p> <ul style="list-style-type: none"> - Group was engaged and communicative - Group was invested in and dedicated to the project - Technical elements of project were super fun to code - Group was approachable about solving problems together - Members were all given space to provide opinion and input - Group was very understanding of and accommodating toward everyone's skill level 	
2. What was bad?	10 MINUTES
<p>Group similar ideas together and discuss.</p> <p>We can improve on</p> <ul style="list-style-type: none"> - Project was slow to start for various reasons outside of control or planning - Coding over other members' work without prior consultation - Members not speaking up when clarification or adjustments and accommodations were needed 	
3. Ideas	10 MINUTES
<p>Brainstorm ideas to improve problem areas.</p> <p>We can try</p> <ul style="list-style-type: none"> - More in depth planning (more thorough discussion of each member's workflow style, problem-solving approaches, coding habits, etc.) 	
4. Actions	10 MINUTES
<p>Translate ideas into action items.</p> <p>Action item: Owner: Due date:</p> <ul style="list-style-type: none"> - Actions taken once workflow was clarified: <ul style="list-style-type: none"> > restructured website to include more static elements > reassigned issue tickets to each member's strengths 	

Brennan's Retrospective:

etrospective

Date:
Project or Milestone:

What was good?	10 MINUTES
<p>Group similar ideas together and discuss.</p> <p>Our team did really well with</p> <ul style="list-style-type: none"> -The group communicated well throughout the Project -High skill group members made it easy to learn From them -The end product 	
2. What was bad?	10 MINUTES
<p>Group similar ideas together and discuss.</p> <p>We can improve on</p> <ul style="list-style-type: none"> -Me personally not realizing how much work this was going to be, and not allowing myself enough time to work on aspects of my code/area. -Being a group member down -Having many unforeseen circumstances that Limited our productivity 	
Ideas	10 MINUTES
<p>Brainstorm ideas to improve problem areas.</p> <p>We can try</p> <ul style="list-style-type: none"> -Flushing out our ideas more in the initial stages of the project -Setting aside more time for the next group project -Personally communicating more when I'm having problems. 	
4. Actions	10 MINUTES
<p>Translate ideas into action items.</p> <p>Action item: Owner: Due date:</p> <ul style="list-style-type: none"> -Use the initial group meeting times to really understand how we want everything to function -Take time off work 	

GitHub Repository Link, Production Website Link Submission Dates

To be filled in by the project team under advisement of the instructional team (and set out in Canvas)

- Presentation Date – April 7th
- Project Submission Due Date – April 10th
- Ideal Submission Date – April 7th

Additional Notes:

We initially had one additional group member who was on vacation until April 1st. They did not have reliable internet and were on Week 3 (JavaScript) material when the project began. We moved forward without this team member after several attempts to contact them were unanswered, and are thus a four-person team.

Teamwork Agreement

WeathCon

To advance the teamwork and communication of the <team name> team, we have created this teamwork agreement to define how we will work together.

Each member of the team is responsible and accountable to uphold our teamwork agreement as we work together to improve our teamwork and communication as well as the outcome of our clients.

In this teamwork agreement we commit to:

- Be respectful of our team members
- Direct communication, rather than side bar conversations
- A commitment to complete tasks for which we are responsible
- Kindness and compassion towards each other
- Trust in each other
- Not being afraid to say, "I don't know" and ask for help
- Avoid interrupting others when they are speaking
- Holding each other accountable when someone is not acting in accordance with this agreement

Where differences arise, our team is committed to resolving conflict by:

- Addressing differences in a timely, open, and honest manner,
- Speaking to the people directly involved in the conflict first, before approaching a third-party mediator, such as a manager or director, and
- Avoiding using blaming language. Use "I" language instead of "you" when talking about the issue.

This agreement is held bound to all team members who have signed and this agreement on the date of Sunday, April 10, 2022.

Name To, Veronica Tai Chi	Signature 
Sillaots, Cory	Sillaots, Cory
Hall, Candice	Hall, Candice
Merrett, Brennan	Merrett, Brennan
Sarker, Antara	