TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible	Comments
10/09/24	After registering for TSA, Our task for today was to develop and brainstorm ideas for our website.	12:28 PM - 1:47 PM 1 Hour & 19 Minutes	Marlon, Vincent, mario, Krishil	Today, we discussed the overall theme of This year's TSA webmaster competition, which was to Develop a website that show cases a restaurant . We discussed potential ideas, work distribution, branding, and many more features for our website; We will continue to do so until we are prepared to start the development of our website.
10/10/24	Our task for today was to continue preparation for our website.	12:24 PM - 1:49 PM 1 Hour & 25 Minutes	Marlon, Vincent, mario, Krishil	We continued to further talk about our ideas and started preparing a layout for our website. We still had vast planning to do until we knew we were ready to start developing. We will continue to do so until we are prepared to start the development of our website.
10/11/24	Our task for today was to continue preparation for our website.	12:24 PM - 1:29 PM 1 Hour & 5 Minutes	Marlon, Vincent, mario, Krishil	Today, we created concepts for our team logo. We did this by using Canva and illustrating logos we could use. We hope to start the development process of our website soon.
10/12/24	Our task for today was to continue preparation for our website.	12:24 PM - 1:27 PM 1 Hour & 3 Minutes	Marlon, Vincent, mario, Krishil	Today, we continue to discuss ideas. We talked about what software and coding languages we would use and decided on HTML, CSS, Javascript, and PHP. We also decided to use Replit as our coding software. We hope to start the development process of our website soon.
10/30/24	Our task for today was to start the development of our website and continue to make progress.	12:28 PM - 1:47 PM 1 Hour & 19 Minutes	Marlon, Vincent, mario, Krishil	After careful preparation, we finally started the development of our website. We first started with the homepage and setting up the pages, which we did by creating folders and inserting html files within them. After that, we worked on our top and side navigation bar, which would display based on resolutions. This process works by using media queries, used in CSS to display elements differently according to their resolutions. After we created our top and side navigation bars, we wrote the basic functionality for them, which ensured that top navigation bar links were pressable and would redirect to a different page. We did the same for the side navigation bar and added a button that users could press to enable and disable the side navigation. We will continue working on the navigation bar functionality, responsiveness, and display tomorrow.

Date	Task	Time involved	Team member responsible	Comments
10/31/24	Our task for today was to continue working on our navigation for our website..	8:31 AM - 9:12 AM 41 minutes	Marlon, Vincent, mario, Krishil	Today, we continued to work on the navigation for our website. We talked about specific styles we could include. We had an idea to make our navigation sticky, which would follow the user as it scrolled down. Once we added that to our navigation bar, we inserted our team logo which is called GR-energy. We had also included a drop-down on the top navigation for devices like computers and tablets, which worked at first, but we decided to scrap that element and leave the navigation how it was. We will continue working on our website.
11/02/24	Our task for today was to continue improving our website.	7:19 AM - 4:16 PM 8 hours and 57 minutes	Marlon, Vincent, mario,	Today, we thoroughly continued to work on our navigation bar. We started by ensuring links are accurately linked to each section in the navigation bar. Later, we ran a few tests to see if there were any overflows with the navigation and if both the side and top navigation were responsive. We did this by viewing how the navigation would display on different devices in the web inspector. While testing for errors, we noticed a few overflowing errors when it came to devices with small resolutions; there was excessive space as the navigation extended beyond the page, occupying more room than necessary. We fixed this issue by setting the overflow to hidden and using the correct media queries to ensure both navigation bars would display correctly without any errors. After we fixed this issue, we decided to add something new to the navigation bar. We added a utility bar. The utility bar is a separate bar that goes above the top navigation bar and includes four images that act as links. We added this so users can click the corresponding image that will take the user to any of our socials based on what icon they click. Each image would represent a certain social media account like Instagram, Facebook, Twitter, and YouTube. Later, we decided to enhance the visual appeal by adding an animated background, which involved creating four sections, each with a different shade. We did this by using CSS, and having keyframes would allow the option to customize the angle, animation, and overall display of the animated background. We will continue working next week.

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Date	Task	Time involved	Team member responsible	Comments
11/16/24	Our task for today was to continue improving our website before fall break.	12:06 PM - 2:39 PM 2 hours and 33 minutes	Marlon, Vincent, mario, Krishil	After a few days of inactivity, we decided today to initiate the creation of our social media accounts to ensure the proper functioning of the utility bar. Our first step involved setting up our Instagram account, where we added our logo as the profile picture and linked our website in the bio. Once the Instagram setup was complete, we proceeded to establish our Facebook account, maintaining consistency in name and logo. With our social media accounts in place, we introduced an additional feature to our navigation bars. This feature highlights and underlines the current link on the navigation bar, providing users with a clear indication of the page they are currently viewing. Marlon will continue working over fall break.
11/21/24	My task for today was to continue improving the website.	1:02 PM - 10:26 PM 9 hours and 24 minutes	Marlon	Today, I decided to include a variety of changes, such as altering styles and coding new elements. I started by adding dropdown sections with links to the top navigation bar for resolutions larger than average phone resolutions. I accomplished this by first building the dropdown element in HTML and placing it in the same section as the links. I added the necessary styles for the button, making the dropdown content appear when hovered over. After doing this, I noticed a small issue with the hover style because it only applied to desktops and not tablets. I fixed this by removing the style and adding a function to the JavaScript that works using if statements. This process ensures that if the user clicks the dropdown, the dropdown content will appear, and the dropdown arrow will flip vertically. If the user clicks the dropdown button while the dropdown content is displaying, the additional content will be hidden, and the arrow will flip back. After the addition of the dropdown feature, I worked on a bottom footer that would display quick links for users to click, buttons with social media icons redirecting the user to the corresponding social media platform, an overall description of the website, and contact information such as phone number, location, email, and a link to the Contact Us page. After adding both features, I reviewed our code and tested our website with a web inspector to ensure there weren't any major issues. I will share my progress with my team and continue to work with them when we return from the break.

Date	Task	Time involved	Team member responsible	Comments
11/27/24	**Our task for today was to debug and experiment with code.**	**7:53 AM - 10:04 AM** **2 hours and 11 minutes**	**Marlon, Vincent, mario, Krishil**	When we returned from the break, I promptly shared my progress with my team. We engaged in a detailed discussion about testing functionality and brainstorming ideas for potential additions to our website. However, today, we refrained from making any additional changes or incorporating new elements. Our focus primarily centered around debugging and experimenting with code to ensure optimal performance. We are diligently ensuring that all aspects display seamlessly. Once we conclude this phase, our next steps involve the continuous addition of exciting features to enhance our website further. We will continue tomorrow.
11/28/24	**Our task for today was to continue the development of our website.**	**78:51 AM - 11:44 AM** **2 hours and 53 minutes**	**Marlon, Vincent, mario, Krishil, Benjamin**	Today, we registered the domain for our website through Hover, a domain registrar. The first step was to decide what kind of domain we wanted, such as.net ,.com,.org, or.edu. After purchasing our domain, we hosted it with Cloudflare to check that it worked properly. We began by using a static deployment using replit, which allowed us to link our web domain using CNAME records and text records that needed to be connected. Once linked, we needed to change the hover nameservers to Cloudflare. Once the necessary processes were completed, we employed a DNS propagator and waited a few hours to confirm that our domain was operational. After the domain was linked and operational, we performed a few tweaks, such as adding a title to the homepage, creating an about us page, and ensuring HTML was properly formatted. We will continue working tomorrow.
11/29/24	**My task for today was to continue the development of our website.**	**11;24 AM - 2:48 PM** **3 hours and 24 minutes**	**Marlon**	Today, I took the initiative to make some adjustments to the styles and scripts associated with the dropdown menu on the navigation bar, ensuring its seamless functionality. While the changes were not extensive, I focused on refining minor details. Specifically, I updated the font size and background of the dropdown to enhance its visual appeal and usability. We will continue work tomorrow.

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Date	Task	Time involved	Team member responsible	Comments
11/30/24	Our task for today was to continue the development of our website.	11:37 AM - 3:13 PM 3 hours and 36 minutes.	**Marlon, Vincent, mario, Krishil, Benjamin**	Today, we worked on the dropdown for our navigation bar. We started by ensuring the dropdown function worked correctly, modifying the script to allow users to open it by clicking the button and to exit by clicking the button again or anywhere else. After finalizing the dropdown, we focused on creating a header for the homepage. We began by crafting concepts and illustrating them in Canva. As we developed the header, we decided to remove the animated background, feeling it could distract users. With the background removed, we began developing the HTML and CSS for the header, creating classes corresponding to it.We aimed to ensure the header would adapt to resolution changes and fit perfectly under the top navigation bar. We utilized specific resolution media queries and the style "object-fit." This CSS property determines how a replaced element (such as an <img> or <video>) content should be resized to fit its container. The covervalue instructs the browser to scale the content to maintain its aspect ratio while filling the container. If the content's aspect ratio does not match the container's, it will be clipped to fit, meaning parts of the image or video might be cut off to cover the area fully without stretching. After finishing the HTML and CSS for the header, we embedded it onto our website. We will continue working tomorrow
12/01/24	**Our task for today was to debug and experiment with code.**	7:53 AM -10:04 AM 2 hours and 11 minutes	**Marlon, Vincent, mario, Krishil, Benjamin**	Today, we tried adding a black-and-white toggle option to our page, which would alter the color of page elements to light or dark. Using React Js, we tried to make this feature work. We began by planning out the steps required for this to work. We created a button and inserted it into the navigation bar. We ensured that the button was clickable and tried adding functionality to the switch/toggle to toggle between light and dark mode using JavaScript or jQuery code. However, due to scripting issues, we decided to abandon the plan.. We will continue working next week.
12/04/24	**Our task for today was to debug and experiment with code.**	11:51 AM - 1:57 PM 2 hours and 6 minutes.	**Marlon, Vincent, mario, Krishil, Benjamin**	Today, we worked on a popup that addresses the overall purpose of the website. It is the first thing users see and read to get an idea of what our website is about. We first created the HTML elements, including a button that allows users to exit the popup and a window with text. After adding styles and a script that enables the popup to display only once when entering the website, it no longer pops up continuously. Once the popup was finished, we added our favicon to the website. A favicon, also known as a shortcut icon, website icon, tab icon, URL icon, or bookmark icon, is a file containing one or more small icons associated with a particular website or web page. We will continue working shortly.

Date	Task	Time involved	Team member responsible	Comments
12/15/24	**Our task for today was to continue the development of our website.**	**1:52 PM - 9:48 PM** **7 hours and 56 minutes.**	**Marion, Vincent, mario, Krishil, Benjamin**	Today, we decided to make major UI changes, removing the header, side navigation bar, dropdown button on the top navigation bar, and a few other elements. Our goal was a complete overhaul with new additions. We initiated the process by creating a carousel showcasing images related to our website and renewable energy sources using Canva. Carefully selecting the images, we embedded them into our files. The carousel features images with individual descriptions, headings, subheadings, navigation buttons, thumbnails at the bottom, and a cooldown timer between image transitions.We began by constructing HTML elements and embedding the images onto the carousel. This led us to create styles for the carousel, focusing on responsiveness. Using media queries, margins, and proper style settings, we ensured a responsive design. We then applied JavaScript styles to orchestrate the interactive carousel on the webpage. The JavaScript code manages movement through a list of items (usually images) with "next" and "prev" controls. It selects various elements from the document, including buttons, the carousel container, item lists, thumbnails, and a timer display. The code appends the first thumbnail item for continuity, initializes timer variables, and defines click events for the "next" and "previous" buttons. The `showSlider` function updates the carousel's display based on button clicks, creating a looping effect and triggering transition animations. Additionally, the code removes a wheel event listener, instantiates a loader, and handles various responsive behaviors, employing event listeners and DOM manipulation for user interactions and adjustments to the carousel and related features.After completing these tasks, we conducted tests to ensure the carousel's responsiveness. We will continue working tomorrow.
12/16/24	**Our task for today was to continue the development of our website.**	**12:28 PM - 3:47 PM** **3 hours and 19 minutes.**	**Marion, Vincent, mario, Krishil, Benjamin**	Today, we continued working on the carousel, adding information for each image within the carousel and setting up the energy sources page. This page displays a header as a video and a deck of cards representing six renewable energy sources. After finishing the information for each image, we made adjustments to the carousel's styles, including font size, font color, and others. These CSS tweaks completed the carousel, and once done, we moved on to the energy sources page.We began by adding basic elements that will be included on all pages and started working on a header showcasing a video. To achieve this, we needed to ensure the autoplay function worked. The autoplay feature in browsers allows videos to start playing automatically when a web page loads without user interaction. However, due to concerns about user experience and unwanted data usage, many modern browsers have restrictions on autoplay, especially for videos with sound.To implement the autoplay feature for the video header in HTML, we used the autoplay attribute in the <video> tag. This instructs the browser to play the video as soon as possible without interruption. Including this with the muted attribute, as most browsers block autoplay unless the video is muted to avoid unexpected sound disruptions for users. Additionally, we included the playsinline attribute, especially crucial for iOS Safari, to allow the video to play inline rather than in fullscreen. We will continue working tomorrow.

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Date	Task	Time involved	Team member responsible	Comments
12/17/24	Our task for today was to continue the development of our website.	1:52 PM - 6:48 PM 4 hours and 56 minutes.	Marlon, Vincent, mario, Krishil, Benjamin	Today, we decided to make more changes. After we finished with the carousels and auto-playing video headers, we decided to work on a new bottom footer that would include the overall description of our website, quick links that users can access quickly, social media icons that will direct users to our social media pages, and a newsletter that allows users to sign up and receive daily updates. We added the necessary HTML and styles, and we chose to include a gradient-like background in the footer. After we finished adding the styles, and we made sure it was responsive and that the links were properly linked to the pages. We will continue working shortly.
12/19/24	Our task for today was to continue the development of our website.	12: 32 PM - 4:33 PM 4 hours and 31 minutes	Marlon, Vincent, mario, Krishil, Benjamin	Today, we chose to work on the energy sources page, and we began by embedding a video in our header. After we added our video, we debated the arrangement of the website and agreed on 6 individual cards in a grid-like format, with three at the bottom and three at the top. We made our cards with HTML and CSS. Each card would include an image of a renewable energy source, a title, a description of the renewable energy source, and a button that links to a different page. Once we had generated the necessary parts, we began to customize our cards and insert photographs into each one. For each card, we provided a title and description and assigned links to each. We will continue working shortly.
12/21/24	Our task for today was to continue the development of our website.	1:21 PM - 5:32 PM 4 hours and 11 minutes.	Marlon, Vincent, mario, Krishil, Benjamin	Today, we began working on a page for solar energy which will include information such as cost, definition, benefits, tax rebate, and more. We began by adding a video header and an engaging movie on solar energy to our website, and then we began studying more about solar energy to include information on the page. Once we had entered all of the necessary information. We created a photo gallery to show off solar energy and an accordion to present further information. We will continue working tomorrow.

Date	Task	Time involved	Team member responsible	Comments
12/22/24	Our task for today was to continue the development of our website.	1:12 PM - 3:42 PM 2 hours and 30 minutes.	Marlon, Vincent, mario, Krishil, Benjamin	Today we worked on the About Us page. We began by making a header picture with Canva. After we completed designing our header, we began working on a card slider idea to reflect the individuals behind GR-energy. Each card would have a picture, description, and image of a GR-energy member. We started by developing six HTML cards and customizing them with CSS. We wanted the cards to have a blur and unblur effect, which is what this represents. The card now being seen will be extremely sharp, while the others will fade in the background. We did this by applying the blur effect with CSS and Javascript. After we added the styles and finished modifying it. We will continue tomorrow.
12/23/24	Our task for today was to continue the development of our website.	3:40 PM - 6:48 PM 3 hours and 8 minutes.	Marlon, Vincent, mario, Krishil, Benjamin	Today, we updated the navigation bar. We began by updating styles and developing a hamburger menu that would dominate the screen and prevent scrolling within the page. We added new designs to the top navigation bar, including a gradient backdrop and an animation transition from link to link. After we completed revising the navigation bar, we considered adding a preloader to the site. The preloader would allow the waste to accept material before showing the page. We first believed the preloader was a fantastic concept, but we got concerned about having a loading screen that may potentially take a lengthy time, so we abandoned the idea. We will continue working shortly.
12/26/23	Our task for today was to continue the development of our website.	1:52 PM - 6:49 PM 4 hours and 57 minutes.	Marlon, Vincent, mario, Krishil, Benjamin	Today, we chose to continue working on the About Us page, adding more information and photographs to each card. After working on the About Us section, we decided to incorporate user testimonials on the site. The objective of these testimonials is to show the user the beneficial effects of GR-energy. In all, we created three testimonials. We want to allow our users to post their own testimonials shortly. We will continue working tomorrow.

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Date	Task	Time involved	Team member responsible	Comments
12/27/24	Our task for today was to continue the development of our website.	1:12 PM - 3:42 PM 2 hours and 30 minutes.	Marlon, Alan, Mario, Jaden & Christian	Today, we worked on each energy source by adding information to the corresponding renewable energy source. We first started on the wind energy page. We added the definition, Cost & tax rebate information, Benefits, usage, how it works, and more. We plan to continue adding more information as we go on. We will continue working tomorrow.
12/28/24	Our task for today was to continue the development of our website.	1:02 PM - 3:42 PM 2 hours and 40 minutes.	Marlon, Vincent, mario, Krishil, Benjamin	Today, we continued to work on renewable energy sources. We started off by finishing the wind energy page and transitioned into biomatic energy. E started researching more information about biomass energy initiatives. Once we gathered the needed data, we embedded information onto the page, Each renewable energy source page would contain the same layout, Once we finished working on the page. We updated the bottom footer by including more contact information and we created a linktree that would contain links to our socials and a button to return to the website. We will continue working tomorrow.
12/29/24	Our task for today was to continue the development of our website.	2:12 PM - 3:42 PM 1 hours and 30 minutes.	Marlon, Vincent, mario, Krishil, Benjamin	Today, we decided to work on the contact page. We started by creating various contact forms and decided which to use. Our contact form would include an image, social icons that allow users to click, and Inputs that require the user to type their email, name, and message. Once we constructed our form, we ensured styles were responsive. We did this by adding a media query that would hide the image and center the form for mobile devices only. Once we finished with CSS styles. We used Web3Forms as a backend to the contact form, so it would receive responses when users send them. We will continue working tomorrow

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Date	Task	Time involved	Team member responsible	Comments
12/30/24	Our task for today was to continue the development of our website.	1o:12 AM - 3:42 PM 5 hours and 30 minutes.	Marlon, Vincent, mario, Krishil, Benjamin	Today, we continued to work on each energy source. We started by working on geothermal energy. Same as every renewable energy source within our website we needed to do some research. As we did some research, we added piece by piece of information. Once we had our information, we included the image gallery as well. We will continue working shortly.
01/04/25	Our task for today was to continue the development of our website.	11:10 AM - 3:12PM 4 hours and 2 minutes.	Marlon, Vincent, mario, Krishil, Benjamin	After a short delay we returned to continue developing our website, we were almost finished and ready to submit. We started the day by wrapping up the renewable energy sources. We finished adding information for each renewable energy source like Solar, Wind, Tidal, Geothermal, Hydro, and Biomass. We also added a CTA button on every energy page, so users could quickly return to the deck of cards displaying each energy source. As soon as this was finished. We started working on the documentation page, which required us to create a header using canva. Once we accomplished that we embedded the header onto our page. We will continue working tomorrow.
01/05/25	Our task for today was to continue the development of our website.	1:05 PM - 4:42 PM 3 hours and 37 minutes.	Marlon, Vincent, mario, Krishil, Benjamin	Today, we continued working each page on our website ensuring there weren't any grammatical issues and ensuring each page is properly finished. As we checked for these issues, we also began working on a new page called "GR-energy converge map" Thia is a page for a huge project we are working on. This project would require massive amounts of data since we plan to create a coverage map showcasing renewable energy across the globe. Since we have not finished this project we decided to add a page with a countdown that would indicate to the user what to expect and how long before the project is finished. After we finished working on this page, we started experimenting with every page. We were debugging line by line to ensure there were little to no errors.

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Date	Task	Time involved	Team member responsible	Comments
02/07/25	Our task for today was to finish our website and submit it.	2:12 PM - 8:42 PM

6 hours and 30 minutes. | Marlon, Vincent, mario, Krishil, Benjamin | Today, our primary objective was to complete and publish our website. To achieve this, we meticulously refined each page, diligently checking for any missing content. Once we confirmed the absence of any overlooked elements, we proceeded to enhance the visual appeal by adjusting CSS styles. Notably, we focused on refining the carousel, the Card soldier in the About Us section, and the top navigation bar.

Upon completion of the style adjustments, we revisited each page to double-check for any potential missing content and rectified any errors that surfaced during our review. With the assurance that our website was polished, comprehensive, and error-free, we confidently proceeded to submit the finalized version. As a result of our collective efforts, we are now well-prepared to participate in the upcoming 2024 TSA regional conference. Our website stands as a testament to our dedication and attention to detail. |