Project Summary Template

This document is intended to provide a summary understanding of the high-level vision of your project goals.

Company Name/ Team Name	Company Name: N/A Team Name: T32 - EcoTrack App
Company Address	N/A
Company Website	N/A
Telephone	N/A
Company Contact/ Team member names	Elnaz Heidari Ghezeljeh Munira Bahmani Zoe Detlefsen
Title	N/A
Company Email/ Email address for all team members	elnaz.heidarighezeljeh@georgebrown.ca munira.bahmani@georgebrown.ca zoe.detlefsen@georgebrown.ca
Telephone	N/A
Project Title	EcoTrack Web App
Project Description	**About the company:** N/A **About the project:** "EcoTrack" is a class project that aims to develop a user-friendly web app focused on environmental sustainability. This app enables users to calculate their carbon footprint, participate in green challenges, discover local eco-friendly businesses, and stay informed about environmental news. The project's primary goal is to educate and motivate individuals to lead more sustainable lives while fostering a sense of community and connection among like-minded individuals. Evaluation and oversight of the project will be conducted by the professor as part of the course's learning objectives.

Problem/ Opportunity Assessment*	*Please describe the current state problem/opportunity that describes the nature and extent of the problem (factual, quantified, concise) or that outlines a chance for advancement or progress.*

Current State Problem:

1. **Environmental Degradation and Climate Change:** The current state of our environment is a significant problem that threatens the well-being of our planet. Rising carbon emissions, deforestation, pollution, and resource depletion contribute to climate change and environmental degradation.
2. **Lack of Awareness and Engagement:** Many individuals are unaware of the extent of their carbon footprint and how their daily choices impact the environment. There's a lack of accessible tools and information to educate and engage people in sustainable living.
3. **Fragmented Resources:** Information about eco-friendly businesses, sustainable products, and local resources is scattered and often difficult to find. There's a need for a centralized platform to connect users with eco-friendly options in their area.

Opportunity for Advancement:

1. **Education and Empowerment:** "EcoTrack" has the opportunity to educate and empower individuals to take meaningful actions to reduce their carbon footprint. By providing a user-friendly carbon footprint calculator and sustainability challenges, users can gain awareness and actively work towards a more eco-friendly lifestyle.
2. **Community and Connection:** The web app can foster a sense of community among environmentally-conscious individuals. Users can share their progress, tips, and achievements, creating a supportive network of like-minded individuals.
3. **Local Sustainability:** "EcoTrack" can bridge the gap between users and local eco-friendly businesses and resources. By offering a map with reviews and ratings, it can encourage users to support sustainable businesses and reduce their environmental impact.
4. **Environmental Awareness:** The app's environmental news feed can keep users informed about pressing environmental issues, sparking discussions and encouraging advocacy for positive change.
5. **Alignment with Global Goals:** With the increasing global focus on sustainability and climate action, "EcoTrack" aligns with the broader goals of reducing carbon emissions, conserving resources, and combating climate change.

Desired Project Outcomes/ Requirements*	*Define how this project shall address a business need, e.g. the business problem or opportunity described above; describe what the beneficiary must be able to do / receive from the solution*
	Desired Project Outcomes/Requirements for "EcoTrack" Web App: 1. **Carbon Footprint Reduction:** The primary outcome is to enable users to actively reduce their carbon footprint. Users should be able to input their daily activities into the app, receive accurate carbon footprint calculations, and access personalized suggestions and recommendations for reducing their environmental impact. 2. **Behavioral Change and Engagement:** The web app should encourage users to adopt eco-friendly habits and lifestyles. This includes setting up challenges and rewards systems that motivate users to make sustainable choices, track their progress, and celebrate their achievements. 3. **Community Building:** Create a thriving online community of environmentally-conscious individuals. Users should be able to connect with like-minded individuals, share their experiences, and exchange tips and advice on sustainable living. 4. **Local Resource Access:** Enable users to find and support local eco-friendly businesses and resources. Users should easily locate zero-waste stores, electric vehicle charging stations, farmers' markets, and more, while also being able to read reviews and ratings from the community. 5. **Environmental Awareness:** Provide users with a curated news feed focused on environmental issues, climate change, and sustainability. Users should stay informed about global environmental challenges, access credible news sources, and have the ability to share articles and insights with their network. 6. **User Education and Empowerment:** Ensure that users are well-informed about the environmental impact of their choices and actions. Provide educational resources, guides, and tutorials within the app to empower users to make informed decisions and take tangible steps toward a more eco-friendly lifestyle.

Key Deliverables to be produced by students*	*Define the boundaries of work that you expect to receive from the students effort (vs. internal effort)*

	Key Deliverables to be Produced by Students (External Work):
	
	1. **User Interface (UI) Design:**
	   ○ Students are responsible for designing the visual layout and user interface of the "EcoTrack" web app. This includes wireframes, mockups, and the overall look and feel of the app.
	2. **Frontend Development:**
	   ○ Students should implement the frontend of the web app, including the user interfaces for all features, navigation, and interactive elements. This involves writing HTML, CSS, and JavaScript code.
	3. **Backend Development:**
	   ○ Students are expected to develop the backend infrastructure to support the app's functionality. This includes creating databases, APIs, and server-side logic for user data, challenges, business listings, and news content.
	4. **Carbon Footprint Calculator (Feature 1):**
	   ○ Students will design and implement the user interface for inputting daily activities and calculating the carbon footprint. They are also responsible for developing the logic that calculates carbon emissions and provides suggestions.
	5. **Green Lifestyle Challenges (Feature 2):**
	   ○ Students should design and implement the UI for viewing, selecting, and tracking challenges. They will create the backend logic to manage challenges, track user progress, and award points.
	6. **Local Sustainability Map (Feature 3):**
	   ○ Students will design and implement the UI for searching and viewing eco-friendly businesses and resources. They are responsible for integrating mapping services and developing the backend to store and retrieve data.
	7. **Environmental News Feed (Feature 4):**
	   ○ Students should design and implement the UI for displaying news articles and integrating social sharing features. They will also develop the backend system for aggregating and updating news content.
	8. **User Authentication and Profiles:**
	   ○ Students will implement user registration, login, and profile management features, including user data storage and security.
	9. **Testing and Quality Assurance:**
	   ○ Students are responsible for testing the app's functionality, identifying and fixing bugs, and ensuring a smooth user experience.
	10. **Documentation:**
	   ○ Students should create user manuals and documentation for the app, including guides on how to use its features.
	11. **Presentation and Demo:**
	   ○ Prepare a presentation and live demo of the "EcoTrack" web app to showcase its functionality and features.

	Internal Oversight and Support (Managed by the Professor and Course Team):
	1. **Project Guidance and Evaluation:** The professor will provide guidance, evaluate project progress, and assess the final project outcomes according to the criteria established for the course.
	2. **Clarification of Objectives and Requirements:** The professor will clarify project objectives, scope, and requirements, ensuring that students have a clear understanding of what is expected in their class project.
	3. **Resource Availability:** The course team will make necessary resources available to students, such as access to development environments, tools, and software licenses required for the project.
	4. **Feedback and Evaluation:** The professor will provide feedback on design and functionality throughout the project's development, conduct evaluations, and ensure alignment with course learning goals.
	5. **Academic and Ethical Compliance:** The professor will guide students in ensuring that the app complies with academic standards and ethical considerations relevant to the course.
	6. **Academic Support:** In addition to evaluating the project, the professor may offer academic support and guidance to help students succeed in their project work.
Desired Start Date	Monday, September 18, 2023;
Desired End Date	Friday, March 29, 2024.
Attachments	*List attachments that support project description*
	1 N/A
	2 N/A

* Please add fields as required