

# **UWAFT Project**

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Sections of this document:

1. Introduction to all pages about the features
2. User manual to the install these pages

# Features Overview

## Page Hierarchy

Home Page

About Us

    History

    Our Mission and Vission

Our Fleet

    Our Products (Show all cars)

        201? Chevrolet Camaro (jump to the car)

        2013 Chevrolet Malibu

        2009 Saturn Vue

        2005 Chevrolet Equinox

        1999 Chevrolet Silverado

Team

Calendar

    Public Events

    Team Schedule

Resources

    Savings Calculator

Our Sponsors

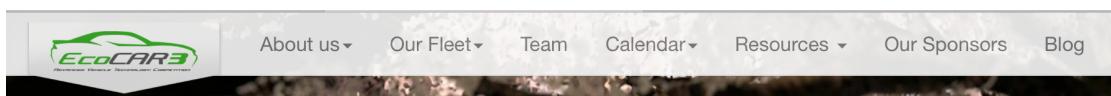
Blog

Admin (this is not showing in nav bar)

    Team Schedule Management

    Public Events Management

    Team Member Management



## The Main Page:

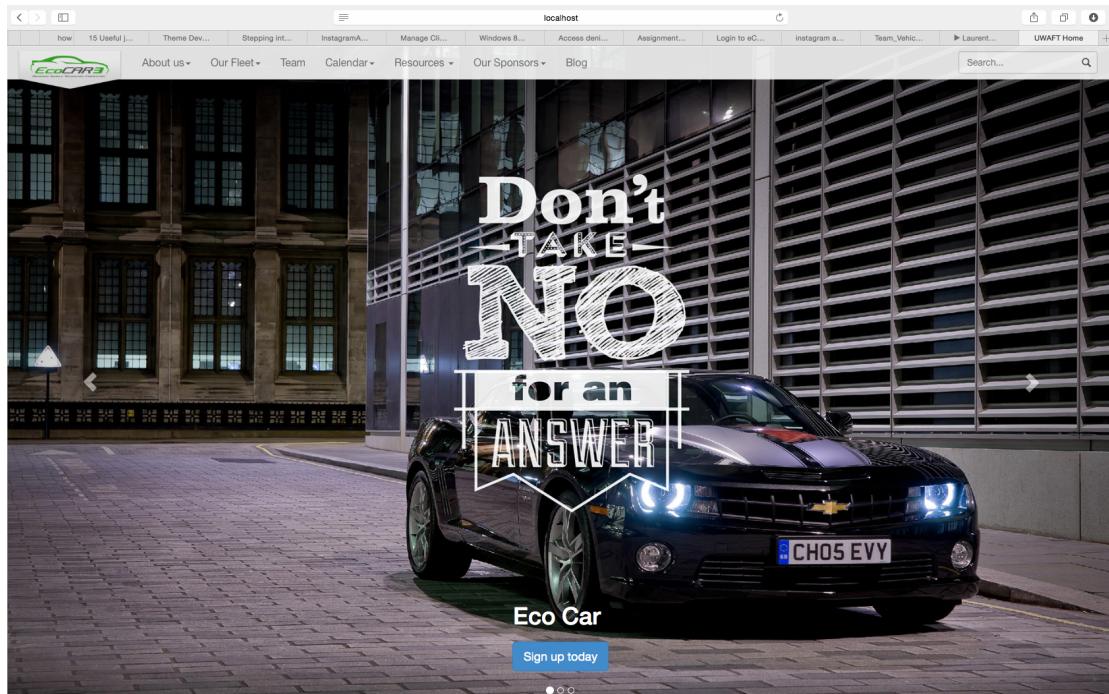
**Requirements:** First page that will be seen. Should give first impression and information about project.

### Technologies used:

- PHP
- HTML5
- Bootstrap Framework
- Photoshop
- Illustrator

**Page Author:** Alexey Rusev

### Overview:



### Features:

Carousal view of the vehicles, that was created with use of bootstrap template with vector graphic. The carousal will automatically scroll but the images can be manually changed with the right and left arrows on the sides of the image.

## **“About us” Page, which contains “History” and “Our Mission and Vision”:**

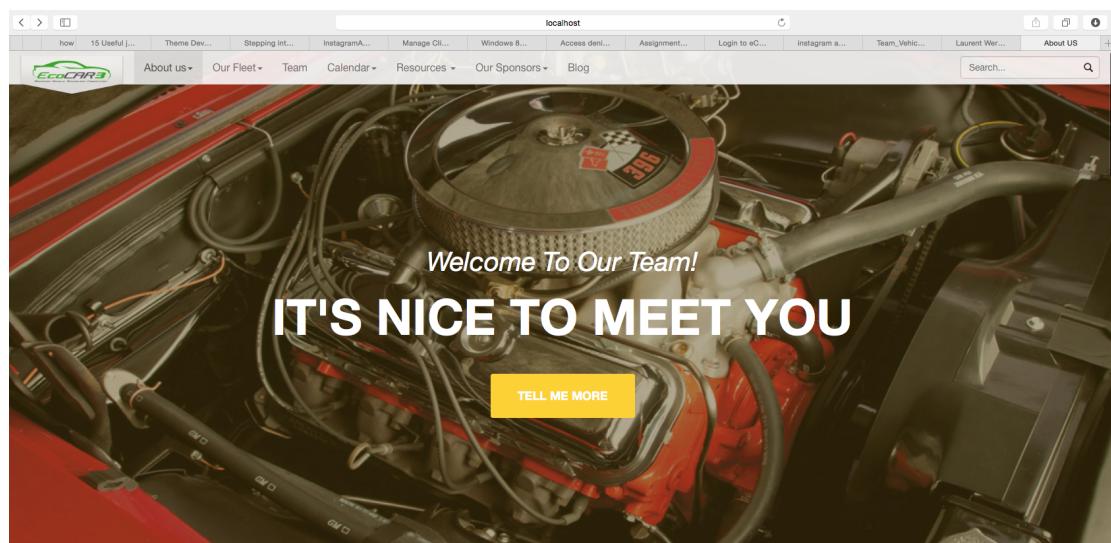
**Requirements:** A page that shows and describes whole history of the UWAFT as long with the goals achieved, future steps and general vision of the project.

### **Technology used:**

- PHP
- HTML5
- Bootstrap Frameworks
- JavaScript

**Page Author:** Alexey Rusev

### **Overview:**



Page begins with a big picture, which is consistent design of the whole website. After introduction user navigates to the “History” part of the page.

## History part:

localhost

how 15 Useful j... Theme Dev... Stepping int... InstagramA... Manage Cli... Windows 8... Access deni... Assignment... Login to eC... Instagram a... Team, Vehic... Laurent Wer... About US

EcoCAR3 About us Our Fleet Team Calendar Resources Our Sponsors Blog Search...

### WHERE EVERYTHING BEGINS...

The University of Waterloo Alternative Fuels Team (UWAFT) has a proud history at the University of Waterloo and was founded in 1996. Since 1996, the team has explored a plethora of fuel types including propane, hydrogen, ethanol, and electricity. In 2005, during the ChallengeX competition, UWAFT became the first student team in the world to put a passenger fuel cell vehicle on the road. The team's continual passion and dedication has lead to innovative solutions which are always breaking new ground.





### OUR COLLABORATION

UWAFT has had over 1000 students participate in the team, with over 75 students participating in the project each term. The team continually pushes student engagement and has formed partnerships with Wilfrid Laurier University and Conestoga College to increase student participation in creating a sustainable future. The team works with multiple levels of government and industrial sponsors, such as CrossChasm, to both promote vehicle electrification and the benefits of eco-friendly alternatives.



### FUTURE STEPS

UWAFT is currently competing in the EcoCAR 3 Advanced Vehicle Technology Competition (AVTC) and is continuing to explore advanced technologies and develop student talent. In EcoCAR 3, UWAFT will continue to put innovation into the vehicle and never compromise on performance. The team will examine complex problems particular to the Canadian environment, such as cold start and the integration of real

History part describes three main points about UWAFT with the pictures that add visual information to the topic. After user became familiar with the history, he/she may view easy structured time-line of the competitions participated by UWAFT:

localhost

how 15 Useful j... Theme Dev... Stepping int... InstagramA... Manage Cli... Windows 8... Access deni... Assignment... Login to eC... Instagram a... Team, Vehic... Laurent Wer... About US

EcoCAR3 About us Our Fleet Team Calendar Resources Our Sponsors Blog Search...

### The following is the list of competitions participated in by UWAFT:

**1996-1997**  
**Propane Vehicle Challenge (AVTC)**  
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sunt ut voluptatum eius sapiente, totam reiciendis temporibus qui quibusdam, recusandae sit vero unde, sed, incidunt et ea quo dolore laudantium consectetur!



**1997-2000**  
**Ethanol Vehicle Challenge (AVTC)**  
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sunt ut voluptatum eius sapiente, totam reiciendis temporibus qui quibusdam, recusandae sit vero unde, sed, incidunt et ea quo dolore laudantium consectetur!



**2000-2004**  
**North East Sustainable Energy Association (NESEA) competitions**  
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sunt ut voluptatum eius sapiente, totam reiciendis temporibus qui quibusdam, recusandae sit vero unde, sed, incidunt et ea quo dolore laudantium consectetur!



**2011-2014**  
**EcoCAR 2: Plugging into the Future (AVTC)**

(Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sunt ut voluptatum eius sapiente, totam reiciendis temporibus qui quibusdam, recusandae sit vero unde, sed, incident et ea quo dolore laudantium consectetur!)

**2014-2018**  
**EcoCAR 3 (AVTC)**

(Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sunt ut voluptatum eius sapiente, totam reiciendis temporibus qui quibusdam, recusandae sit vero unde, sed, incident et ea quo dolore laudantium consectetur!)

**BE PART OF OUR STORY!**

Finally, mission and vision of the company will conclude the whole previous information:

**BE PART OF OUR STORY!**

## OUR MISSION AND VISION

### MISSION STATEMENT

At UWAFT we continuously break new ground in the field of sustainable transportation through innovation, technology, and student engagement. Through active community involvement we spread the message of sustainability locally, nationally, and internationally.

### VISION STATEMENT

We will shatter the boundaries in the automotive field to become world leaders in sustainability; building the vehicles of tomorrow, today.

## Sponsorship page:

**Requirements:** Page that shows current sponsors as long with invitation to new with information about

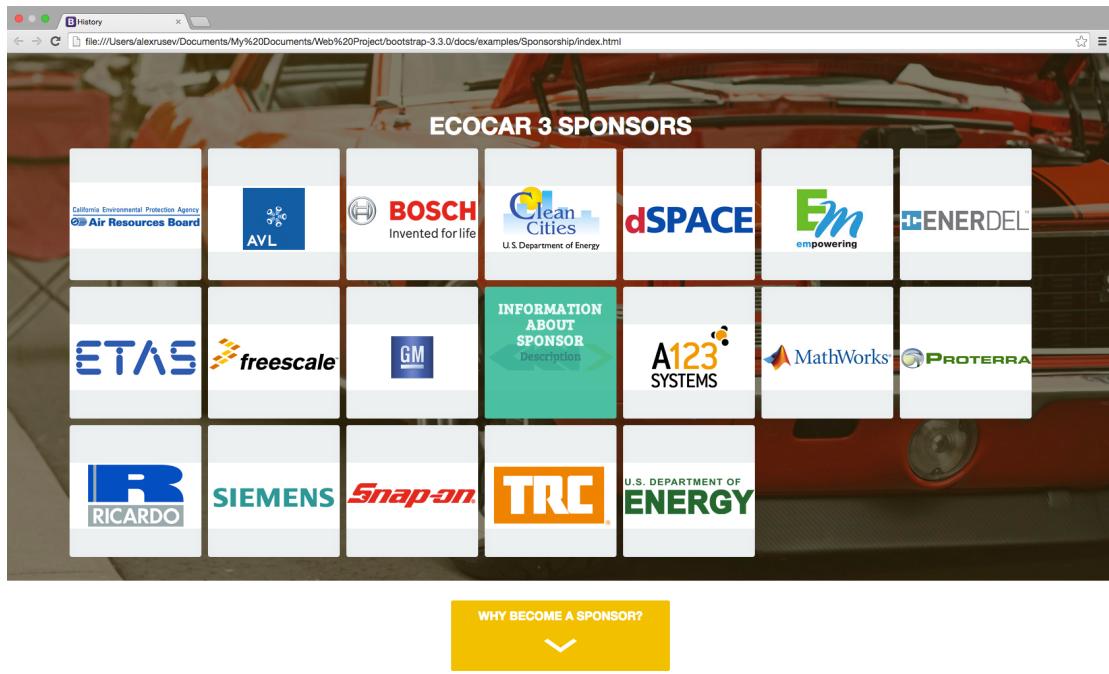
### Technologies used:

- PHP
- HTML5
- Bootstrap Framework
- Photoshop
- Illustrator
- CSS and JavaScript animation

**Page Author:** Alexey Rusev

### Overview:

Page begins with the information about current sponsors. Header was made with the use of hover effect that will force user to stay on this page and play with it much longer than he would expect.



After user became happy by playing with hover on the first page and became ready to investigate to the project he/she may navigate to the next

section, which will advice him/her about sponsorship opportunities and gives advantages of it in a well designed structure, as long with the information about local sponsors.

**UWAFT is a student run team that couldn't succeed without the help of our sponsors. Interested in getting involved with UWAFT and EcoCAR 3? Email [sponsorship@UWAFT.com](mailto:sponsorship@UWAFT.com) to get involved.**

**UWAFT IS MADE POSSIBLE WITH THE HELP OF THE FOLLOWING LOCAL SUPPORTERS:**

- Community CarShare
- WEEF
- The Mufflerman
- General Dynamics
- MAGNA
- 3M
- Altair
- Jiffy-tite
- GreenField
- Multimatic
- Waterlooprinting
- Grand Valley Specialty Welding
- IEWC Global Solutions
- Wilfred Laurier University
- Document print integrity
- Digi-Key
- Enigma-tech
- JRP
- Producto
- Elo
- Fastenral
- IGPC Ethanol Inc.
- Tm4
- Cimatrix
- Grain Farmers Of Ontario
- Forbes
- FleetCarma
- The City Of Waterloo
- Canuck Motorsports
- MSC Software
- University of Waterloo | WATCAR
- Continental
- Kitchener Utilities
- TRUE GEAR & SPLINE LTD.

**UWAFT Collaborates with EcoCAR 2 Sponsor FleetCarma**

**UWAFT Collaborates with EcoCAR 2 Sponsor Magna**

**TECHNICAL TEAM**

Consists of some of the brightest and most engaged students at the University of Waterloo, complemented with unique training from UWAFT. Being a bronze or higher sponsor provides the opportunity to present your organization to the technical team and network with them.

**UWAFT'S ENGAGEMENT**

In the local community helps build the brand image of sponsors' organizations. Additionally, the team helps to get kids engaged in school by visiting their schools and showing them the possibilities that come with attending and being involved with the university.

**UWAFT'S ENGAGEMENT**

# The Vehicle Page: Our Fleet

**Requirements:** A page listing of the past vehicles.

1. 2017 Chevrolet Camaro
2. 2013 Chevrolet Malibu
3. 2009 Saturn Vue
4. 2005 Chevrolet Equinox
5. 1999 Chevrolet Silverado

**Technologies used:**

- PHP
- HTML5
- Bootstrap Framework

**Page Author:** Chanthida Pao

**Overview:**



**Our Fleet**  
Model X is designed from the ground up to stand the test of time. It offers the benefits of a minivan, as well as an electric car can. It is an automobile above category, built around the driver. It fully provides ultrafast performance and minimal functionality.

Come see for yourself! [Make an appointment or reserve a spot](#)

## Features:

Carousel view of the vehicles featured. Placeholder images are used for now to represent the 5 vehicles in the requirements. The carousel will automatically scroll but the images can be manually changed with the right and left arrows on the sides of the image. The bootstrap carousel template was used to create this effect.

Introduction to the fleet is a short paragraph under the carousal images.



## Our Fleet

Model X is designed from the ground up to blend the best of an SUV with the benefits of a minivan, as only an electric car can. It is an automobile above category, built around the driver. It artfully provides unfettered performance and brilliant functionality.

Come see for yourself  
Make an appointment or reserve a spot [?](#)

## Timeline feature:

Vehicles are placed in a vertical line to represent time in a more visual appealing fashion. Inspired by the Facebook timeline the comments, which are lorem ipsum at the moment, are anchored to a line with car related Bootstrap glyphs.



The vehicles are fully described in more detail:



### 2005 Chevrolet Equinox

Donec ullamcorper nulla non metus auctor fringilla. Vestibulum id ligula porta felis euismod semper. Praesent commodo cursus magna, vel scelerisque nisl consectetur. Fusce dapibus, tellus ac cursus commodo.

### 2009 Saturn Vue

Donec ullamcorper nulla non metus auctor fringilla. Vestibulum id ligula porta felis euismod semper. Praesent commodo cursus magna, vel scelerisque nisl consectetur. Fusce dapibus, tellus ac cursus commodo.



## The Team Page:

**Requirements:** The team should be a single tab. It should have a picture of the entire team and then underneath it a window that has tabs that could switch between: Technical, Project Management, and Communications. This is mostly for internal relations and to try to build a single unified team

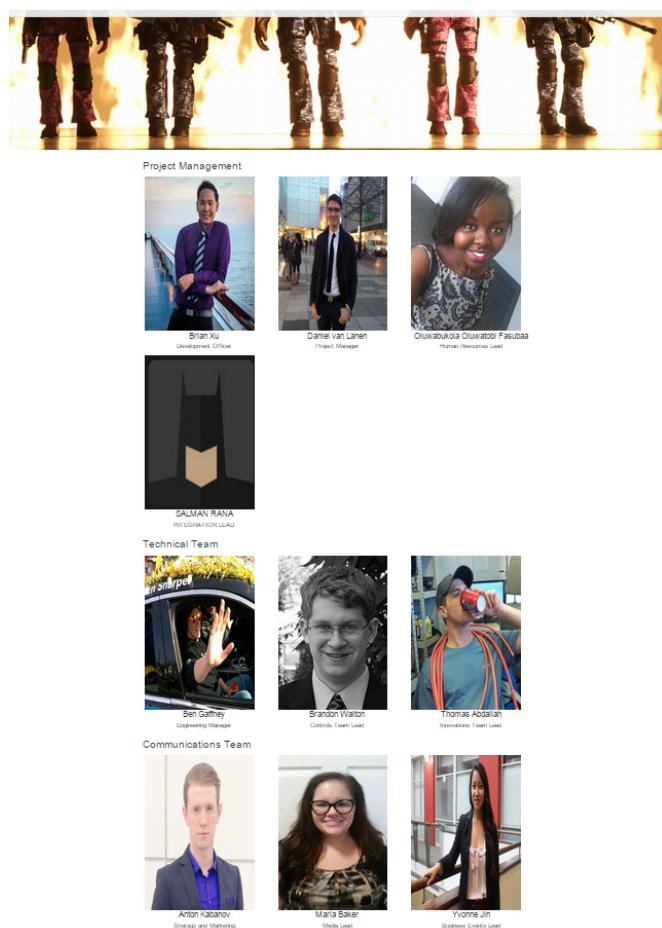
Master team document provided with images.

### Technologies used:

- PHP
- HTML5
- Bootstrap Framework
- MySQL
- CSS Animation

**Page Author:** Chanthida Pao

### Overview:



## Features:

Picture of the entire team wasn't provided and is currently a placeholder image.

Team members are divided into three categories; Technical, Project Management, and Communications. Each team member has their name posted with their position on the team page. Additional details are displayed with mouse over:

### Project Management

Program Master of Business Administration
When I was a kid I wanted to be: Be an inventor
Favorite part of EcoCAR/UWAFT: Opportunity to learn new skills and immediately apply them, whilst receiving continuous feedback.
Favorite Breakfast Cereal: Coffee + Dunkin' Donuts
Three things on my bucket list: Skydiving in Dubai, Macchiato in Italy, Attempt to max a Bugatti Veyron on the Autobahn
Two things about me: I have a passion for photography and a love for exotic cars.

Brian Xu  
Development Officer



Daniel van Lanen  
Project Manager



Oluwabukola Oluwatobi Fasubaa  
Human Resources Lead

Members are managed on the team form page. This page holds the current team members in their respective categories and can be removed from the page if necessary. The form questions are based from the team master document.

## Current Members

### Project Management

Brian	Xu	Development Officer	<a href="#">delete</a>
Daniel	van Lanen	Project Manager	<a href="#">delete</a>
Oluwabukola	Oluwatobi Fasubaa	Human Resources Lead	<a href="#">delete</a>
SALMAN	RANA	INTEGRATION LEAD	<a href="#">delete</a>

### Technical Team

Ben	Gaffney	Engineering Manager	<a href="#">delete</a>
Thomas	Abdallah	Innovations Team Lead	<a href="#">delete</a>

### Communications Team

Anton	Kabanov	Strategy and Marketing	<a href="#">delete</a>
Yvonne	Jin	Business Events Lead	<a href="#">delete</a>

# Calendar

## Public Events

**Requirements:** A page listing all public events

**Technologies used:**

- PHP
- HTML5
- Bootstrap Framework
- jQuery
- Some other third party resources

**Page Author:** Weiwei Chen

**Overview:**

The screenshot shows a website header with a logo, navigation links for About us, Our Fleet, Team, Calendar, Resources, Our Sponsors, and Blog, and a search bar. Below the header, a section titled "Our Public Events" features a timeline of events. The timeline is organized by date, with sections for November 27, November 26, November 25, and November 24. Each section contains a list of events, each with a timestamp. The events include user uploads, friend requests, test posts, and comments.

Date	Event Details	Timestamp
2014-11-27	Mina Lee uploaded new photos	14:15:23
2014-11-26	Sarah Young accepted your friend request	07:00:00
2014-11-26	test test test test test	00:00:00
2014-11-25	hello world hello everybody	11:16:00
2014-11-24	Ian White commented on your post	00:17:13

**Features:**

A timeline view to show all events in a vertical sequence in date reversed order. The events that in the same day are grouped in a section and each day is a different section.

According to requirements, each event has title, message, date and time information.

## Team Schedule

**Requirements:** A calendar that shows all team schedules

### Technologies used:

- PHP
- HTML5
- Bootstrap Framework
- jQuery and jQuery-UI
- Ajax
- Some other third party resources

**Page Author:** Weiwei Chen

### Overview:

Team Schedule Check out our plans!

previous next today December 2014 month week day

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30		1	2	3	4	5
						6
	7	8	9	10	11	12
	7pm Long Event 5:41p All Day Event			10:30a Meeting		13
	14	15	16	17	18	19
	Click for Google				12pm	20
	21	22	23	24	25	26
	tt					27

Team Schedule Check out our plans!

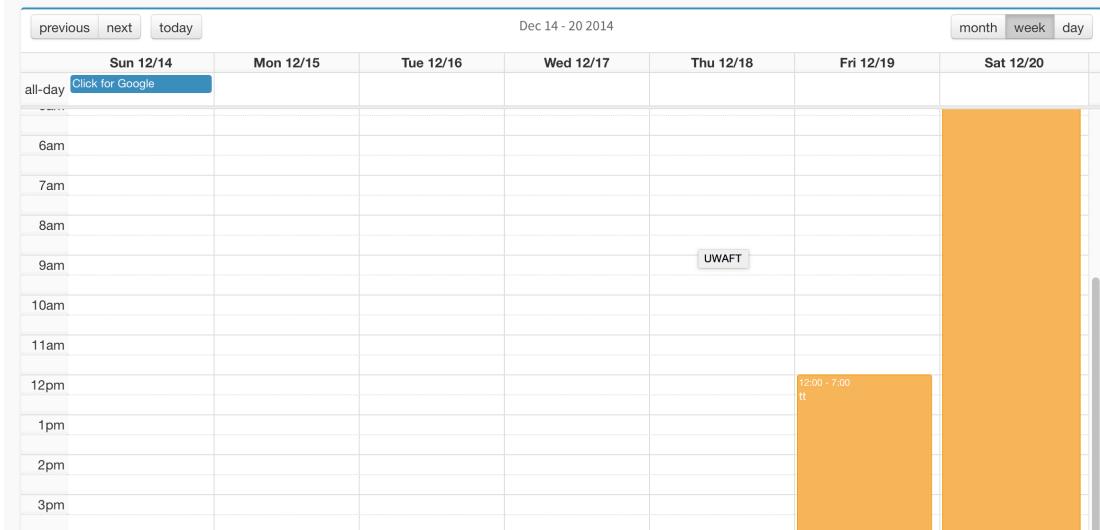
previous next today December 11 2014 month week day

Thursday

all-day

6am	7am	8am	9am	10am	11am	12pm	1pm	2pm	3pm
					10:30 - 12:00 Meeting				

## Team Schedule Check out our plans!



### Features:

A iPad Style calendar view to show team schedules. The schedules are ordered in month, week and day view.

Each schedule event has title, start date and time, end date and time, url (clickable link), all day (is the event for the whole day) and colour for the event.

# Resources

## Savings Calculator

**Requirements:** A calculator to compare benefits of different cars

**Technologies used:**

- PHP
- HTML5
- Bootstrap Framework and a Bootstrap Slider
- jQuery
- Some other third party resources

**Page Author:** Weiwei Chen

**Overview:**

The screenshot shows a web-based savings calculator. At the top, it asks "Can a Hybrid Save Me Money?" and "Which model do you want to compare with?", with "Toyota Prius Plug In" selected. Below these are sliders for "Distance to Work" (25 km), "Price of Gas" (\$1.40/L), and "Price of Electricity" (\$0.12/kWh). Input fields show "Total Driving" as 47800 km. A "Calculate" button is present. The interface is divided into two main sections: "Current" and "Model Chosen". The "Current" section displays the following data:

Hybird Mode:	MSRP:
8	\$ 23850.00
Petrol Bill:	\$5353.6
Total Bill:	\$5353.6

The "Model Chosen" section displays:

Petrol Bill:	\$1813.65
Electrical Bill:	\$881.52
Total Bill:	\$2695.17
Saving:	\$2658.43
Additional Cost Payback:	\$3.00
Work Compatible:	N/A

**Features:**

A simple calculator to compare the current car and other competitor's car in terms of petrol and/or electric bill, saving and other benefits.

There are some values can be inputed by user: distance to work, total driving, gas price and electricity price. Hybrid model and MSRP for current car are also editable.

# Blog

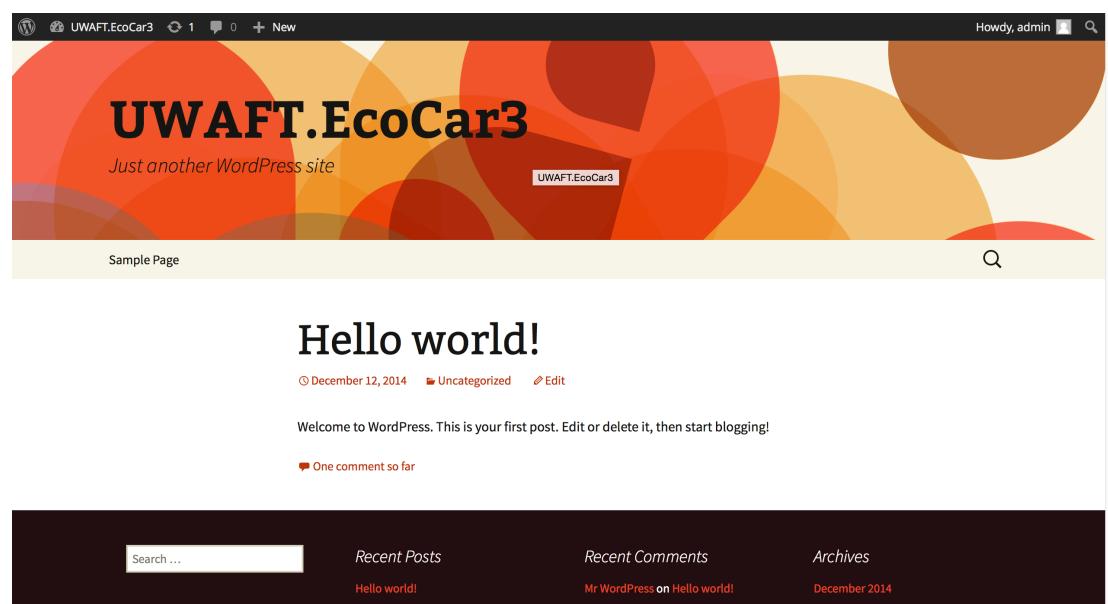
**Requirements:** A blog for UWAFT members

**Technologies used:**

- Wordpress
- Bootstrap Framework

**Page Author:** Weiwei Chen

**Overview:**



**Features:**

A simple blog that allows UWAFT members to post articles.

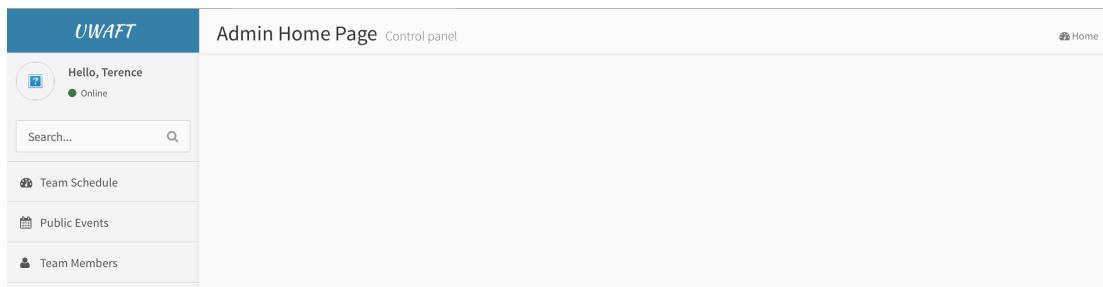
# Admin

The admin page that to manage Calendar and team page.

## Technologies used:

- PHP
- HTML5
- Bootstrap Framework and a Bootstrap Slider
- jQuery and jQuery-UI
- AdminLTE framework
- Some other third party resources

## Overview:



## Features:

The admin page that organize all back-end management features. There is no login or register function for admin page yet, so it can be directly opened.

# Team Schedule

Requirements: The management page of updating team schedules

Page Author: Weiwei Chen

## Overview:

The screenshot shows a web-based team scheduling application. On the left is a sidebar with a user profile (Hello, Terence, Online), a search bar, and links for Team Schedule, Public Events, and Team Members. The main area is titled "Team Schedule Control panel". It features a calendar for December 2014 with days from Sunday to Saturday. Several events are overlaid on the calendar: a red box labeled "7p Long Event" covers the evenings of December 7th and 8th; a blue box labeled "5:41p All Day Event" covers the entire day of December 8th; a blue box labeled "10:30a Meeting" covers the morning of December 11th; and a yellow box labeled "12p It" covers the afternoon of December 18th. A blue button labeled "Click for Google" is located on December 14th. On the right, there is a "Create Event" sidebar with fields for Event Title (with a "Color" dropdown), Start Date (YYYY-MM-DD HH:MM:SS), End Date (YYYY-MM-DD HH:MM:SS), Link (url in event), and a checkbox for "Is event all day?". A large "Add" button is at the bottom of the sidebar.

## Features:

The page to manage team schedules. However, there is only add new schedule function, update and delete functions are not available yet.

# Public Events

Requirements: The management page of updating public events

Page Author: Weiwei Chen

Overview:

The screenshot shows the 'Public Events' control panel. On the left is a sidebar with a user profile (Hello, Terence, Online), a search bar, and links for Team Schedule, Public Events (selected), and Team Members. The main area has a header 'Events' with a 'Add Event' button. Below is a table with columns: Title, Message, Date, Time, and Actions (Delete). The data includes:

Title	Message	Date	Time	Actions
Mina Lee uploaded new photos		2014-11-27	14:15:23	Delete
Sarah Young accepted your friend request		2014-11-26	07:00:00	Delete
test	test test test test	2014-11-26	00:00:00	Delete
hello world	hello everybody	2014-11-25	11:16:00	Delete
Jay White commented on your post	Take me to your leader! Switzerland is small and neutral! We are more like Germany, ambitious and misunderstood!	2014-11-25	00:17:13	Delete
wow	wowowowowow	2014-11-23	00:22:00	Delete
sdf	1 222	1234-12-12	12:12:12	Delete

The screenshot shows a modal dialog titled 'Add new event'. It contains fields for Title (title), Message (message), Date (yyyy-mm-dd, 2014-11-27), and Time (hh:mm:ss, 14:15:23). At the bottom are 'Close' and 'Save changes' buttons. The background shows the same list of events as the previous screenshot.

Features:

The page to manage public events. It can add and delete events. Updating is not yet supported.

# Team Member

Requirements: The management page of updating team members

Page Author: Chanthida Pao

## Overview:

The screenshot shows a web-based form titled "Team Page Info Form" under the "Control panel". The left sidebar has a user profile (Hello, Terence, Online) and links for "Team Schedule", "Public Events", and "Team Members". The main form area is titled "Add new team member" and contains the following fields:

- Category:** A dropdown menu with the placeholder "Please select one".
- First Name:** An input field containing "First Name".
- Last Name:** An input field containing "Last Name".
- Position:** An input field containing "Position".
- Program:** An input field containing "Program".
- When I was a kid I wanted to be:** An input field containing "When I grow up".
- Favorite part of EcoCAR/UWAFT:** An input field.

At the top right of the form, there are navigation links: "Home" and "Public Events".

## Features:

The page to manage team members. It can add and delete members.

# User Manual

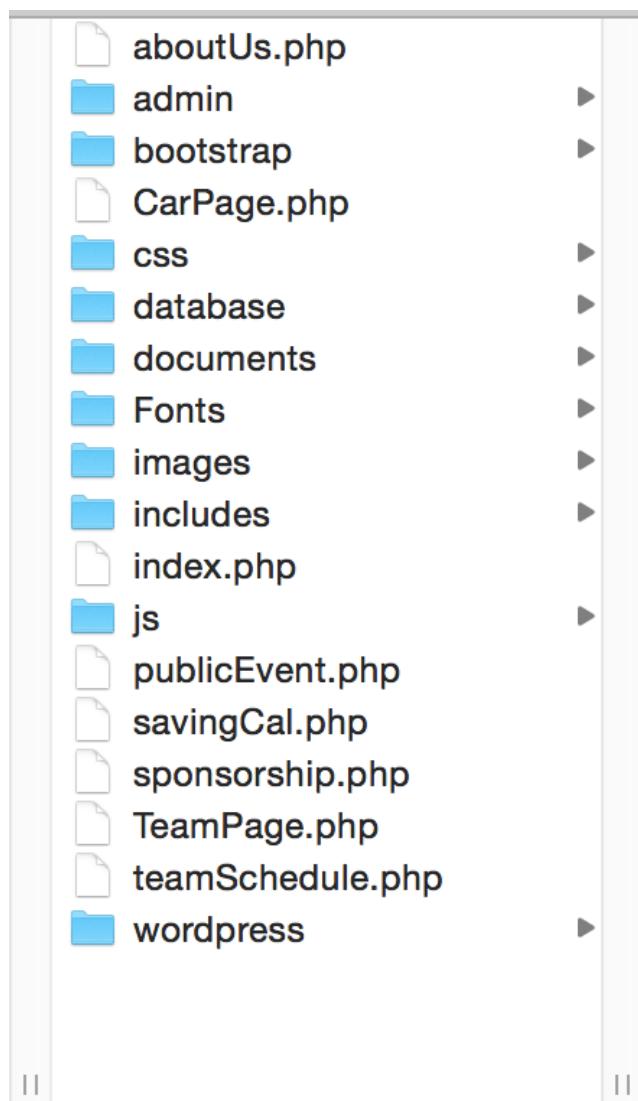
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## Installation

1. Copy the root folder "UWAFT" into web server and set it as the server root folder or copy all files inside to the server root folder
2. Import Database file - Open the server database (MySQL for example), direct to "Import" tag and select import from file, select file "UWAFT.sql" in "database" folder inside the root folder. Before doing that, make sure there is no existing database named "UWAFT", delete it if there is any.
3. Open Blog and it will direct you to setup page for wordpress, input all necessary information there such as database name(whatever you like), server admin account.
4. Congratulation, it is all done, you are ready to launch the website now.

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## File hierarchy Introduction



- All page files are named according to their features like aboutUs.php is for About Us page.
- admin: this folder contains all admin management pages such team schedule management page
- bootstrap: this folder contains the Bootstrap framework
- css: this folder has all css file used by pages
- database: there is a UWAFT.sql database file inside
- documents: it includes all documentation including this document
- Fonts: all extra font files
- images: all images used by pages
- includes: some php common used files like header and footer
- js: all javascript files and some frameworks like jQuery
- wordpress: the whole WordPress framework inside