

# Advanced Web Scripting

## Group Project Outline

### Overview

The group projects are your opportunity to demonstrate applied knowledge. You should use your creativity to implement a website that uses JavaScript in useful, user centered applications. As with all assignments, please be sure to follow directions carefully. Be sure to present your product well by avoiding spelling errors or obvious defects in design and implementation.

### Assignment (choose only one of the 3 assignments listed below)

1. The **Wonder Worlds** children's school teaches gifted toddlers language and math skills. The school gives its students a head start with accelerated programs for exceptionally intelligent children age 4-7. The school has three objectives:

- They want to create a web site that informs parents about their school.
- They require two interactive demonstrations of the types of learning activities in which children will be engaged. These activities must be fully interactive and supported by both Internet Explorer and Firefox.
- They would like a website that is serious, but welcoming to parents and children. It should consider accessibility.
- The site must allow its users to register for information about the school by providing their: Name, address, phone number and child's age.

Suggested Reference Sites:

- <http://www.averycoonley.org/>
- <http://www.imsa.edu/>
- <http://www.questacademy.org/home/index.asp>
- <http://www.scienceandartsacademy.org/>

2. **Wicked Promotions** is a nightlife promotion company. They promote nightclubs and bars in the Chicago area by setting up parties, booking DJ's and bands, and related services. Choosing any 10 nightclubs and bars in the Chicago area, your site must promote Wicked's services to the club patrons:

- Offer the ability for people to register an e-mail address, home address, phone number and name for direct marketing by Wicked Promotions
- Provide a list of nightclubs and bars that Wicked promotes
- Provide an interactive game, activity, or tool that is meant to attract people to the website. This may be any activity that this demographic might use, then pass on to their friends (example: interactive drink mix guide)
- Provide photos and music that demonstrates the fun and excitement of Wicked Promotions events.
- Propel the Wicked Promotions brand by emphasizing its technically savvy, modern, and urban character.

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Suggested Reference Sites:

- <http://www.zentranightclub.com/links/> (links to a whole set of companies)
- <http://www.stereoinc.net/stereo.htm>
- <http://www.sound-bar.com/>

3. **Big Hit Sports** is looking to create a collection of mini sites for its adult athletic items. In order to select their new design firm, they have offered anyone to design two mini sites for them. The team with the best-designed mini site for any two of the following product lines will be awarded a 3-year contract:

- Baseball Bats, mitts, and batting cages
- Basketballs, Volleyballs, and Baseballs
- Sneakers/Running Shoes (high quality for distance runners and basketball)
- Bicycles (competition grade mountain and road)
- Electronics (heart rate monitors, watches, etc)
- Clothing (basketball, volleyball, running, cycling and swimming)

Big hit would like each mini site to be an exciting, engaging demonstration of their product quality and professional grade. Each mini site should provide the following:

- A description of the product line and a multi-view interactive demo of flagship products.
- A means of contacting the company through a validated form
- An interactive tool that would encourage people to revisit the site (e.g. calorie counter, fitting guide, etc)

Suggested Reference Sites:

- <http://www.nikewomen.com>
- <http://www.specialized.com/>
- <http://www.trekbikes.com/>
- <http://www.rawlings.com/>

### General Guidelines:

- All sites must have at least five elements of interactivity scripted in JavaScript. Elements of interactivity include menu systems, click and drag items, and information validation.
- Any work that was completed outside of this class cannot be submitted for credit as part of this assignment. Any attempts to do so will result in a failing grade.
- The assignment must be completed by a group of two individuals.  
All sites must have the following:
  - All sites must contain at least **7** pages of content (most will require more)
  - All sites must use well constructed HTML, CSS, and JavaScript
  - You can use Dreamweaver and any JavaScript code you find on the web. You should customize any code to meet your needs. Any code that is not original **MUST** be credited to its source and clearly labeled.

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### Code Guidelines

- You may use JavaScript/AJAX code libraries found on the web
- All code must be commented.
- All code should work for Internet Explorer (5.5) and FireFox. Netscape and Safari our your tier two targets.

### Evaluation

Your software will be beta tested by the class one week before final grading. This is your opportunity to correct any unforeseen errors or usability issues. Groups that do not take suggestion from testing must articulate why they chose not to in a detailed write up.

Your grade will be based on the following

- 80 points: Initial beta test
- 20 points: Final product

**Total:** 100 points.

### Beta Test

The beta test should be fully functional. The websites you present to the class must be showcase quality. At this stage, the websites should be easily used without much explanation. An "A" product will be well thought out, original and fully functional. An "A" product may have a few minor spelling errors or usability oversights, but generally indicates a significant amount of planning and development.

### Final Product

The final product will be polished and error free. It should demonstrate an understanding of the concepts discusses in class and in the class textbook. Use of functions, conditional logic, DOM and other key concepts demonstrates and understanding of them. Please use the material covered in class effectively.

This project may be a strong candidate for addition to your final portfolio. Please complete the project with this in mind. Creating original content, or using royalty free content, will also help.

*If you would like to do something other than what is described above, please talk to the instructor first.*