IPRO 333

Interactive Website Module Design and Development for the Museum of Science and Industry

Statement of the Problem

The Museum of Science and Industry would like to increase user interactivity on its website.

Goals of the Project

- We will continue to develop interactive and educational modules for an 8th grade audience.
- Each module will reflect specific scientific topics based on research and analysis.
- Modules will aid teachers, parents, and students with 8th grade curriculum topics.

Organization of the Team



Progress Toward Goals

Semester 1

- Research and Analysis Textbooks, curriculum and other interactive websites
- Schematic Design Initial nine ideas
- Design Development Development of top three ideas: Genetics, Machines and Energy
- User Testing
- Feedback from MSI

Semester 2

- Design Development Reflects concerns and recommendations from the museum's feedback.
- Continue to develop three modules to the final stage
- More user testing to ensure quality

Genetics Module

Purpose

 Our purpose is to develop a genetics module that teaches 8th graders about simple hereditary and sex-linked traits.

Obstacles

- Reducing text while keeping the content informative.
- Keeping the content and complexity age appropriate.



Old Laboratory

New Laboratory

Old Menu

New Menu

Genetics Mission	Genetics Mission
Task 1: Intro to Genetics	Introduction to Genetics
	Task 2: Your Traits
	Task 3: Sex-linked Diseases
	Let's start from introduction to Genetics.



Mechanics Module

Purpose

 Educate users about physics behind simple machines through interaction with various puzzles.

Obstacles

- Completing the module by the end of the semester.
- Balancing education and entertainment.

Improvements

- Feedback from the sponsor showed they did not like the gnome idea.
- The previous module was in its early stages, there was little work lost by creating a new story.
- Expansion of initial module.



Current Module

- Point and click adventure in MSI.
- The storyline was created so the user feels more involved and is more mature and realistic.
- User stumbles upon a new exhibit under construction and decides to look around.
 User gets stuck inside the new exhibit and must escape by solving mechanics based puzzles.

Example Room and Puzzles









Energy Module

Purpose

- The user will experiment with powering buildings using different types of sustainable energy.
- Cost analysis, benefits and feasibility will be displayed for each type of power.
- From this information, the user will be asked to provide power for a building using the most efficient energy sources.

Obstacles

• Finding credible energy statistics for the module.

Improvements

- Redesign of the existing images
- New locations alter what power sources the user should utilize
- Only small scale energy sources are user controlled
- Better researched content

Images





New Module



Old Module



Milestones

- Design Development Phase 1
 - 2.28.08 Approval of direction and semester goals
- Design Development Phase 2
 - 3.27.08 Approval of progress
- User Testing
 - 4.10.08 Haines School
- Design Development Phase 3
 - 4.24.08 Approval of final development
- Final Submission
 - 5.1.08

Thank you!