

Development Plan Phase 1:

Possible User Interaction Features:

- API Integration (Browser or Third-Party):
 - Google Maps API
 - Embeds an interactive Google Map showing the Duquesne Incline's location
 - The map will be embedded in the Plan Your Trip section to help visitors find directions
 - Form Validation API
 - Make sure that all required fields are completed before submission, validating email format, phone number, etc.
 - Will be implemented in the Mailing List sign-up form
- jQuery Implementation
 - Interactive Image Carousel for Gift Shop
 - Uses jQuery to create an interactive carousel displaying featured gift shop items
 - The carousel will show the selling items like the postcards, shot glasses, and custom shirts with transitions
- JavaScript DOM Manipulation / Event Handler
 - Dynamic Greeting
 - Displays a personalized greeting based on the current time
 - This function is called when the page loads

Development Plan Phase 2:

Actual implementations:

- API Integration (Browser or Third-Party):
 - Google Maps API
 - Embeds an interactive Google Map showing the Duquesne Incline's location
 - Implemented in the sidebar of all pages for consistent access.
 - Form Validation API
 - Used JavaScript's Constraint Validation API instead of a third-party tool.
 - Better control over error messages (e.g., "Please enter a valid 10-digit phone number")
- jQuery Implementation
 - Interactive Image Carousel for Home Page
 - Uses jQuery to create an interactive carousel displaying images of the incline
- JavaScript DOM Manipulation / Event Handler
 - Mobile Menu Toggle:
 - Custom event listeners for the responsive menu.