Project Documentation: Field Trip - Zoobic Safari

1. **Project Overview**

This project aims to design an interactive and visually appealing webpage for a virtual field trip to Zoobic Safari.

The page includes:

- An interactive animal map.

- Informational sections about Zoobic Safari and Subic Bay.

- A contact section for inquiries.

- Responsive design for various devices.

1. **Development Process**

Step 1: **Idea Collection**

- Core features planned:

- Interactive animal map with a modal for detailed information.

- Informative sections with text and images.

- Responsive design for accessibility on different devices.

Step 2: **Implementation**

1. **HTML** : Structured and laid out the page.
2. **CSS** : Styled the page to make it look visually appealing and responsive.

3. **JavaScript**: Added interactivity to the map section.

Step 3: **Debugging and Testing**

- Tested functionality across devices and browsers.

- Corrected image display and modal responsiveness issues.

1. **Code Breakdown**

HTML Overview

- **Header**: Navigation bar with links to sections.

- **Map Section**: An interactive map with animal landmarks.

- **About and Subic Sections**: Content with images.

- **Contact Section**: Link for user inquiries.   
- **Footer**: Copyright information.

**CSS Overview**

Key Features:

1. **General Styling:**

- Linear gradient background for a natural feel.

- Sans serif modern font (Poppins) for readability.

Layout structured with margin and padding resetting.

1. **Navbar Style**: Navigation links are style with hover effects for proper user experience.
2. **Map Section**: There is a map container styled on the page with background, clickable landmarks.
3. **Modal Style InfoCard**: Made centered modal box with smooth transitions and fallback styles.
4. **Responsive Design**: Adjusted layout and map size to make it suitable for smaller devices using media queries.

**JavaScript Summary**

**Key Features:**

1. **Animal Data** : Information including name, description, image was stored for each animal as an object.
2. **Interactive Map**: Event listeners were attached to the landmarks so dynamic modal content is displayed.
3. **Modal Functionality**:

- Content to be dynamically displayed based on user interaction.

- Feature to close the modal on button click or clicking outside was included.

1. **Error Handling**:

- Logic for missing data to be displayed (e.g., default image).

- Console errors logged for easier debugging.

**4. Challenges Faced**

1. **Issue with Image Display**:

- **Issue**: Images are not rendering properly. Some images do not exist or are too big for the modal.

- **Solution**: - Added a default image to cover missing cases.

- Used CSS (max-width and border-radius) to limit image size and enhance visual consistency.

1. **Modal Animation Delay**:

- **Issue**: The modal would open choppy and didn't disappear when it was done.

-**Fix**

- CSS transitions had been adjusted.

- Additional JavaScript delay was implemented on the same timing of the transition.

1. **Responsive**

- **Problem**: The map and the modal did not render at all on smaller devices.

-**Solution**: Used media queries to adjust map size and modal dimensions for mobile devices.

1. **Landmark Click Issues**:

-**Problem**: Some landmarks were not clickable due to overlapping elements.

-**Solution**: Adjusted the z-index for landmarks and surrounding elements to ensure proper layering.

1. **Features**
2. **Interactive Animal Map**:

- Clickable landmarks that display detailed animal information in a modal popup.

1. **Responsive Design**: Easy layout adjustments from desktop to tablet to mobile view.
2. **Modal Dynamic**: A smooth modal that handles missing content with some error-handling.

4. **Nav User-Friendly**: Smooth scrolling, hover effects in general polished look.

1. **Acknowledgments**

- **Team Contribution** Co-written the structure of the HTML and preliminary drafts of CSS/JS.

- Testing and debugging was done collaboratively for quality.

- **External Support**:

- **ChatGPT**:

- Solved CSS issues: responsive, hover effects.

- Improved JavaScript modal logic. Added smooth animations.

**WireFrame**

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