Assignment 1 - Zoo project

1 Team Members

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2 Project Description

The Zoo Project is a web-based application that allows users to explore a virtual zoo, featuring various animals with detailed information. Each team member has a zoo with at least four animals, each with a dedicated webpage with images and descriptions. The website is developed using HTML and CSS, following Git feature branch workflows for version control.

3 Requirements

Core Features:
- **Homepage:** Introduction to the zoo project and navigation to different regions.
- **Animal Pages:** Dedicated pages for each animal with images and descriptions.
- **Navigation System:** User-friendly menu to explore various animal species.
- **Multimedia Support:** Integration of images and audio to enhance user experience.
- **Return to Homepage Button:** Easy navigation back to the main page.

Additional Features:
- **Responsive Design:** Ensuring compatibility across devices.
- **Accessibility Features:** Text alternatives for images, and keyboard navigation.
- **Search Functionality:** Allow users to search for animals by name or region.

3.1 Business Requirements (BR)
- BR #1 – Users shall be able to navigate through different zoo sections using a homepage.
- BR #2 – Each Student Zoo homepage shall feature at least four animals, each with its web page.
- BR #3 – Users shall be able to view images and read descriptions about each animal.

3.2 Functional Requirements (FR)
- FR #1 – The homepage shall contain links to individual animal web pages.
- FR #2 – Each animal page shall contain an image gallery, and a brief description/relevant details.
- FR #3 – Users shall be able to navigate between different sections of the zoo without issues.

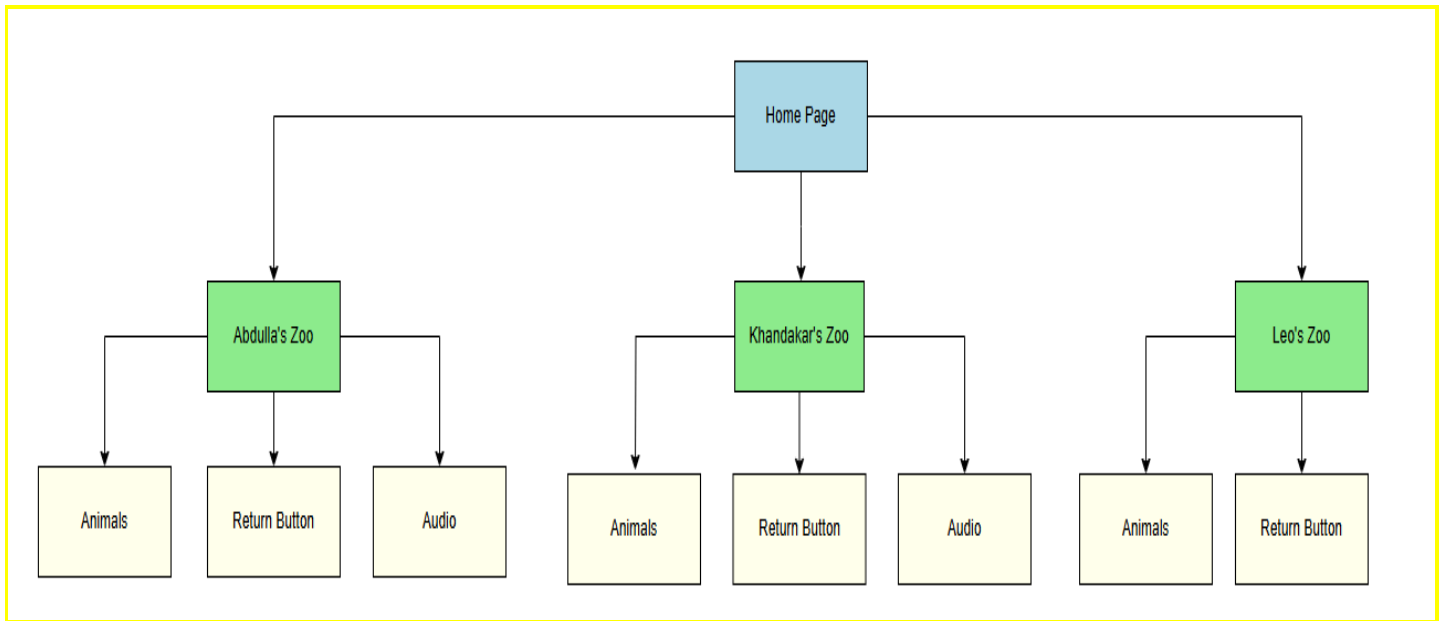### 3.3 Non-Functional Requirements (NFR)
- NFR #1 – The website should load within a few seconds for an optimal user experience.
- NFR #2 – The website should be visually appealing with a structured and responsive design.
- NFR #3 – The website should maintain proper HTML and CSS formatting for readability.

4 Software Architecture and Diagram

The project follows a client-side architecture, using *HTML* and *CSS*. The structure includes:

Architecture Components:
- **Frontend:**
  - HTML for content structure.
  - CSS for styling and responsiveness.

- **File Structure:**
  - `index.html` - Homepage.
  - `styles.css` - Global styles.
  - `animal-pages/` - Folder containing HTML pages for individual animals.
  - `images/` - Folder containing animal images.
  - `audio/` - Folder containing animal-related audio files.

- **Main Homepage:** Contain links to each region for each student.
- **Student Homepage:** Contains at least 4 unique animals and links to each animal web page.
- **Animal Page:** Contains at least one image of the animal along with information about it.
- **Navigation:** Users can seamlessly switch between all pages from the Main Homepage to the student homepage to the animal web page.
- **Version Control:** GitHub repository for feature branches and pull requests.

5 Epics, User Stories, and Acceptance Criteria

Epic 1: User Navigation

User Story 1: As a user, I want to navigate easily between pages so that I can explore different animals.

Acceptance Criteria:
- Clicking on an animal's name takes the user to its detailed page.
- Clicking the "Return to Homepage" button navigates back to the homepage.

User Story 2: As a user, I want to access images and descriptions of animals so that I can learn about them.

Acceptance Criteria:
- Each animal page contains an image and description.
- Images load correctly without broken links.

Epic 2: Multimedia Enhancement

User Story 3: As a user, I want to hear background music/audio related to the theme so that I have an immersive experience.

Acceptance Criteria:
- The audio file plays when the page loads.
- Users can control the playback (play/pause).

6 Project Schedule

Project	Category	Assigned to	Estimated start	Estimated finish	Estimated work (in hours)	Estimated duration (in days)	Actual start	Actual finish	Actual work (in hours)	Actual duration (in days)	Notes
Project 1	Index Page	Everyone	2/5/2025	2/23/2025	10 hours	18 days	2/5/2025	2/23/2025	10 hours	18 days	
Project 1	Leo's homepage	Leo Chen	2/10/2025	2/20/2025	30 hours	10 days	2/10/2025	3/1/2025	23 hours	19 days	
Project 1	Leo's zoo animal#1	Leo Chen	2/21/2025	2/24/2025	17 hours	3 days	2/16/2025	2/23/2025	16 hours	7 days	
Project 1	Leo's zoo animal#2	Leo Chen	2/23/2025	2/25/2025	12 hours	2 days	2/23/2025	2/25/2025	13 hours	2 days	
Project 1	Leo's zoo animal#3	Leo Chen	2/26/2025	2/26/2025	8 hours	1 day	2/26/2025	2/26/2025	9 hours	1 day	
Project 1	Leo's zoo animal#4	Leo Chen	2/26/2025	3/1/2025	14 hours	3 days	2/26/2025	3/1/2025	14.5 hours	3 days	
Project 1	Abdulla's Homepage	Abdulla Saleh	2/10/2025	2/23/2025	5 hours	14 days	2/10/2025	2/23/2025	5 hours	14 days	
Project 1	Abdulla's zoo animal#1	Abdulla Saleh	2/21/2025	2/25/2025	2 hours	5 days	2/21/2025	2/25/2025	2 hours	5 days	
Project 1	Abdulla's zoo animal#2	Abdulla Saleh	2/23/2025	3/2/2025	2 hours	7 days	2/23/2025	3/2/2025	2 hours	7 days	
Project 1	Abdulla's zoo animal#3	Abdulla Saleh	2/23/2025	2/25/2025	2 hours	3 days	2/23/2025	2/25/2025	2 hours	3 days	
Project 1	Abdulla's zoo animal#4	Abdulla Saleh	2/23/2025	2/25/2025	2 hours	3 days	2/23/2025	2/25/2025	2 hours	3 days	
Project 1	Abdulla's zoo animal#5	Abdulla Saleh	2/23/2025	3/2/2025	2 hours	3 days	2/23/2025	3/2/2025	2 hours	3 days	
Project 1	Abdulla's zoo animal#6	Abdulla Saleh	2/23/2025	2/25/2025	2 hours	3 days	2/23/2025	2/25/2025	2 hours	3 days	
Project 1	Abdulla's zoo animal#7	Abdulla Saleh	2/23/2025	2/25/2025	2 hours	3 days	2/23/2025	2/25/2025	2 hours	3 days	
Project 1	Abdulla's zoo animal#8	Abdulla Saleh	2/23/2025	3/2/2025	2 hours	7 days	2/23/2025	3/2/2025	2 hours	7 days	
Project 1	Abdulla's zoo animal#9	Abdulla Saleh	2/23/2025	2/25/2025	2 hours	3 days	2/23/2025	2/25/2025	2 hours	3 days	
Project 1	Abdulla's zoo animal#10	Abdulla Saleh	2/26/2025	3/2/2025	2 hours	4 days	2/26/2025	3/2/2025	2 hours	4 days	
Project 1	Khandakar's Homepage	Khandakar Wahiduzzaman	2/10/2025	2/17/2025	10 hours	8 days	2/10/2025	2/17/2025	8 hours	8 days	
Project 1	Khandakar's Zoo animal #	Khandakar Wahiduzzaman	2/18/2025	2/24/2025	8 hours	7 days	2/18/2025	2/24/2025	7 hours	7 days	
Project 1	Khandakar's Zoo animal #	Khandakar Wahiduzzaman	2/19/2025	2/24/2025	2 hours	6 days	2/19/2025	2/24/2025	2 hours	6 days	
Project 1	Khandakar's Zoo animal #	Khandakar Wahiduzzaman	2/21/2025	2/24/2025	2 hours	4 days	2/21/2025	2/24/2025	2 hours	4 days	
Project 1	Khandakar's Zoo animal #	Khandakar Wahiduzzaman	2/22/2025	2/24/2025	2 hours	3 days	2/22/2025	2/24/2025	2 hours	3 days	
Project 1	Khandakar's Zoo animal #	Khandakar Wahiduzzaman	2/23/2025	2/24/2025	2 hours	2 days	2/23/2025	2/24/2025	2 hours	2 days	
Project 1	Khandakar's Zoo animal #	Khandakar Wahiduzzaman	2/24/2025	2/24/2025	2 hours	1 day	2/24/2025	2/24/2025	2 hours	1 day	