



Project Title	Virtual Pet Simulator
Technologies	HTML, CSS, JavaScript
Project Difficulties level	Hard

## **Project Description:**

In this web development assignment, you will create a Virtual Pet Simulator using HTML, CSS, and JavaScript. The goal of this project is to design an interactive web application that simulates the experience of taking care of a virtual pet. This project combines front-end development skills with user interaction.

### **Project Requirements:**

## 1. Virtual Pet Design:

- Create a virtual pet character with visual assets. You can design your pet using images or simple animations.
- Your virtual pet should have attributes such as hunger, happiness, and energy.

#### 2. User Interface:

- Design an engaging user interface for the Virtual Pet Simulator.
- Use HTML for structuring the layout, including the pet character and status indicators.
- Apply CSS for styling, including visual effects like animations and transitions.

#### 3. Pet Interaction:

- Implement user interactions to take care of the virtual pet. Users should be able to feed, play with, and put the pet to sleep.
- These interactions should affect the pet's attributes, such as reducing hunger and increasing happiness.





## 4. Attribute Display:

- Display the pet's attributes (e.g., hunger, happiness, energy) on the screen. Use graphical representations like progress bars or icons.
- Update these attributes in real-time as users interact with the pet.

#### 5. Pet Animation:

 Animate the pet character to reflect its current state. For example, when the pet is hungry, it could appear sad, and when it's happy, it could display a cheerful animation.

### 6. Game Logic:

- Implement game logic to manage the pet's attributes, interactions, and transitions between states (e.g., from awake to asleep).
- Ensure that the pet's attributes can increase or decrease over time.

## 7. Extra Features (Optional):

• If you want to add more complexity, consider features like multiple pet types, a day-night cycle, or achievements.

### **Submission Requirements:**

- Submit your project as a ZIP file containing HTML, CSS, and JavaScript files.
- Include a README file with instructions on how to interact with the Virtual Pet Simulator.

## **Grading Criteria:**

Your project will be evaluated based on the following criteria:

- Functionality: Does the Virtual Pet Simulator effectively simulate the experience of taking care of a virtual pet?
- User Interface: Is the Virtual Pet Simulator visually appealing and user-friendly?
- Code Quality: Is the code well-structured, organized, and commented?





 Additional Features: If you've added extra features, they will be considered in the assessment.

# Tips:

- Plan the pet's behavior and attribute changes carefully.
- Test the Virtual Pet Simulator to ensure a smooth and engaging user experience.
- Encourage users to interact with the pet regularly to keep it happy and healthy.

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