

Report

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Part 1. Getting Started with jQuery

Task 0. Setup

First, I connected the jQuery library using a CDN link.

Then I wrote a basic document ready function to make sure the script only runs after the page has fully loaded.

To test it, I printed "jQuery is ready!" in the browser console, confirming that everything was working correctly.

```
console.log("jQuery is ready!");
```

jQuery is ready!

app.js:3

Task 1. Selectors & CSS

In this part, I learned how to select elements by their ID, class, and tag using jQuery.

I changed the text and HTML content of different elements and applied new styles dynamically.

This helped me understand how to manipulate both content and appearance through jQuery methods.

```
<section class="card" id="task1">
  <h2>Task 1</h2>
  <p id="demo-id">This sentence was selected using <code>id="demo-id"</code>.</p>
  <p class="demo-class">This sentence was selected using <code>class="demo-class"</code>.</p>
  <p>Here is a regular paragraph selected by its <strong>tag name</strong>.</p>
  <div class="btns">
    <button id="btnText">Change text() on ID</button>
    <button id="btnHtml">Change html() on class</button>
    <button id="btnCss">Change CSS on tags</button>
    <button id="btnReset1">Reset</button>
  </div>
</section>
```

Part 2. jQuery Effects

Task 2. Visibility Methods

I created a paragraph and two buttons, Hide and Show.

Then I used visibility methods to hide, show, and toggle the paragraph's visibility.

It demonstrated how jQuery can easily control the display of elements.

Task 3. Fade Methods

In this task, I added a cute cat GIF instead of a static image.

I used fading effects to make the image smoothly appear, disappear, or toggle between visible and hidden.

It was a good exercise in applying visual transitions.

```

<section class="card" id="task2">
  <h2>Task 2</h2>
  <p class="muted">Use <code>.hide()</code>, <code>.show()</code>, <code>.toggle()</code>.</p>
  <p id="vis-p">I can be hidden, shown, or toggled.</p>
  <div class="btns">
    <button id="hideP">Hide</button>
    <button id="showP">Show</button>
    <button id="toggleP">Toggle</button>
  </div>
</section>

<section class="card" id="task3">
  <h2>Task 3</h2>
  <div class="row">
    <div>
      <p class="muted">Watch this cute cat fade in and out</p>
      
    </div>
    <div>
      <div class="btns">
        <button id="fadeIn">fadeIn</button>
        <button id="fadeOut">fadeOut</button>
        <button id="fadeToggle">fadeToggle</button>
        <button id="fadeReset">Reset</button>
      </div>
    </div>
  </div>
</section>

```

Task 4. Slide Methods

I created a collapsible panel that could slide up, slide down, or toggle between open and closed states.

This task showed how sliding animations can make interface elements more dynamic and interactive.

```

<section class="card" id="task4">
  <h2>Task 4</h2>
  <button id="slideDownBtn">Slide Down</button>
  <button id="slideUpBtn">Slide Up</button>
  <button id="slideToggleBtn">Slide Toggle</button>
  <div id="panel" class="panel" style="display:none; margin-top:10px;">
    <strong>Collapsible Panel</strong><br />
    This content appears and disappears with slide animations.
  </div>
</section>

<section class="card" id="task5">
  <h2>Task 5</h2>
  <ul id="todo" class="panel" style="list-style: disc;">
    <li>First item</li>
    <li>Second item</li>
  </ul>
  <div class="btns">
    <button id="addItem">Append Item</button>
    <button id="prependItem">Prepend Item</button>
    <button id="removeItem">Remove Last</button>
  </div>
</section>

```

Part 3. DOM Manipulation with jQuery

Task 5. Add & Remove Elements

Here, I created a list with two buttons: one to add new list items and another to remove them. I practiced dynamically modifying the structure of the webpage by adding and removing elements.

Task 6. Modifying Attributes

In this task, I worked with HTML attributes.

I made a button that changes an image source when clicked, and another one that updates a hyperlink address dynamically.

Task 7. Form Interaction

I created a form with input fields for Name and Email.

When the user types something, their input is displayed live below the form.

This helped me understand how to handle user input and show real-time feedback.

```
<section class="card" id="task6">
  <h2>Task 6</h2>
  <div class="row">
    <div>
      <button id="swapImg">Change Image src</button></div>
    </div>
    <div>
      <a id="dynamicLink" class="link" href="https://api.jquery.com" target="_blank">Visit jQuery
        API</a>
      <div class="btns"><button id="swapLink">Change Link href</button></div>
    </div>
  </div>
</section>

<section class="card" id="task7">
  <h2>Task 7</h2>
  <div class="row">
    <div>
      <label>Name</label>
      <input id="nameInput" type="text" placeholder="Type your name" />
    </div>
    <div>
      <label>Email</label>
      <input id="emailInput" type="email" placeholder="Type your email" />
    </div>
  </div>
</section>
```

Part 4. Animations

Task 8. Basic Animation

I animated a square div by increasing its size and moving its position.

This demonstrated how jQuery can smoothly change an element's properties over time.

Task 9. Sequential Animations

Next, I made the box move in several directions step by step — right, down, shrink, and return to the starting point.

This helped me understand how to create chained animations.

Task 10. Combined Animation

Here I combined several animation effects — movement, resizing, and opacity changes — all in one action.

It showed how multiple visual transformations can be applied at once for a more complex effect.

Task 8



Animate Size & Position

Reset

Task 9



Run Sequence

Reset

Part 5. Mini Project

Task 11. Interactive jQuery Project

For the final task, I chose to create an Image Gallery.

The gallery displays small thumbnails that fade in and out, and when a user clicks on one, it enlarges smoothly.

This project combined all the skills I learned — effects, DOM manipulation, and animation — into one interactive web component.

Task 11

Image Gallery

