CIT Final Project – Documentation

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Project Overview:

This project is a CRUD application that is themed around managing a personal gemstone collection.

Users can create, read, update, and delete gemstones using a JavaScript and jQuery-powered interface.

Features:

Create: Add a new gemstone by entering details in the form.

Read: View all gemstones in a dynamic gallery or see detailed information for a specific gemstone.

Update: Edit the details of an existing gemstone.

Delete: Remove a gemstone from the collection.

CRUD Operations:

Create:

The `#gemstone-form` allows users to create a new gemstone:

Code snippet:

```javascript
$("#gemstone-form").on("submit", function () {
    const name = $("#name").val();
    const color = $("#color").val();
    const hardness = $("#hardness").val();
    const description = $("#description").val();
    let image = $("#image").val();

    // Use an `if` condition to set a default image when no URL is provided
    if (image === "") {
        image = "assets/default.jpg";
    }

    const facts = $("#facts").val().split(",");
    gemstones.push({ name, color, hardness, description, image, facts });
    renderGallery();
});
```

Read:

The `renderGallery` function dynamically displays all gemstones:

Code snippet:

```
const renderGallery = function () {
    const gallery = $("#gemstone-list");
    gallery.html("");
    for (let i = 0; i < gemstones.length; i++) {
        const card = document.createElement("div");
        card.className = "card";
        card.dataset.index = i;
        card.innerHTML = `<h3>${gemstones[i].name}</h3>`;
        gallery[0].appendChild(card);
    }
};
```

Update:

Users can edit a gemstone's details:

Code snippet:

```
$("#gemstone-list").on("click", ".update-btn", function () {
    const index = $(this).data("index");
    const gemstone = gemstones[index];
    $("#name").val(gemstone.name);
    $("#color").val(gemstone.color);
    $("#editing-index").val(index);
});
```

Delete:

The `delete-btn` (short for delete button) removes a gemstone:

Code snippet:

```
$("#gemstone-list").on("click", ".delete-btn", function () {
    const index = $(this).data("index");
    gemstones.splice(index, 1);
    renderGallery();
});
```