

Mini Indoor Plant Nursery

Pilea peperomioides
Easy
Uncommon

Pilea peperomioides

String of Hearts
Medium
Rare

Ceropegia woodii

ZZ Plant
Easy
Common

Zamioculcas zamiifolia

Reset Selection (UI-only)

Add New Plant (UI-only)

Difficulty

Light

Water

Add Plant
Clear

Pilea peperomioides

(Pilea peperomioides)
View
Buy (UI-only)

Coin-shaped leaves, easy to propagate; prefers bright, indirect light.

Easy
Uncommon

Light

Bright

Water

Moderate

types.ts

```
export interface Plant {
  id: number;
  name: string;
  scientific?: string; // ? used to denote optional properties
  difficulty: 'Easy' | 'Medium' | 'Hard';
  light: 'Low' | 'Medium' | 'Bright';
  water: 'Low' | 'Moderate' | 'Frequent';
  rarity?: 'Common' | 'Uncommon' | 'Rare';
  description: string;
}
```

main.tsx

```
import { StrictMode } from 'react'
import { createRoot } from 'react-dom/client'
import './index.css'
import App from './App.tsx'
import type { Plant } from './types';
import 'bootstrap/dist/css/bootstrap.min.css';

const plants: Plant[] = [
  {
    id: 1,
    name: "Pilea peperomioides",
    scientific: "Pilea peperomioides",
```

```
    difficulty: "Easy",
    light: "Bright",
    water: "Moderate",
    rarity: "Uncommon",
    description: "Coin-shaped leaves, easy to propagate; prefers
bright, indirect light."
  },
  {
    id: 2,
    name: "String of Hearts",
    scientific: "Ceropegia woodii",
    difficulty: "Medium",
    light: "Bright",
    water: "Low",
    rarity: "Rare",
    description: "Trailing succulent-like vine with heart-shaped
leaves."
  },
  {
    id: 3,
    name: "ZZ Plant",
    scientific: "Zamioculcas zamiifolia",
    difficulty: "Easy",
    light: "Low",
    water: "Low",
    rarity: "Common",
    description: "Extremely hardy plant that tolerates low light and
neglect."
  }
];

createRoot(document.getElementById('root')).render(
  <StrictMode>
    <App plants={plants} />
  </StrictMode>,
)
```

app.tsx

```
import React, { useState } from 'react';
import type { Plant } from './types';
import PlantList from './PlantList';
import PlantCard from './PlantCard';
import { PlantForm } from './PlantForm';

interface AppProps {
  plants: Plant[];
}

const App: React.FC<AppProps> = ({ plants }) => {

  const [selectedId, setSelectedId] = useState<number>(plants[0].id);
  const selectedPlant = plants.find((p) => p.id === selectedId);

  return (
    <div className=".container p-4">

      <h1 className="mb-4">Mini Indoor Plant Nursery</h1>

      <div className="row">

        <div className="col-md-4">

          <div className="mb-3">
            <input
              type="text"
              className="form-control"
              placeholder="Search plants (UI-only)"
            />
          </div>

          <PlantList
            plants={plants}
          />
        </div>
      </div>
    </div>
  );
};
```

```
        selectedId={selectedId}
        onSelect={setSelectedId}
      />

      <button
        className="btn btn-secondary w-100 mt-3"
        // Optional: You can add logic here later to reset the
selection
        onClick={() => console.log("Reset clicked")}
      >
        Reset Selection (UI-only)
      </button>

    </div>

    <div className="col-md-8">

      <div className="mb-4">
        <PlantForm />
      </div>

      {selectedPlant && <PlantCard plant={selectedPlant} />}

    </div>
  </div>
</div>
);
};

export default App;
```

plantcard.tsx

```
import React from 'react';
import type { Plant } from './types';

interface PlantCardProps {
  plant: Plant;
}

const PlantCard: React.FC<PlantCardProps> = ({ plant }) => {
  return (
    <div className="card mb-3">
      <div className="card-body">

        <div className="d-flex justify-content-between align-items-start">
          <div>
            <h3 className="card-title">{plant.name}</h3>
            <h6 className="card-subtitle mb-2 text-muted">({plant.scientific})</h6>
          </div>
          <div>
            <button className="btn btn-outline-secondary btn-sm me-2">View</button>
            <button className="btn btn-outline-danger btn-sm">Buy (UI-only)</button>
          </div>
        </div>

        <p className="card-text">{plant.description}</p>

        </* Badges for Difficulty and Rarity */>
        <div className="mb-3">
          <span className="badge bg-secondary me-2">{plant.difficulty}</span>

```

```

        <span className="badge bg-warning text-
dark">{plant.rarity}</span>
      </div>

      <div className="row">
        <div className="col-sm-6">
          <small className="text-muted">Light</small>
          <div>☀ {plant.light}</div>
        </div>
        <div className="col-sm-6">
          <small className="text-muted">Water</small>
          <div>💧 {plant.water}</div>
        </div>
      </div>
    </div>
  </div>
);
};

export default PlantCard;

```

plantform.tsx

```

import React from 'react';

export const PlantForm: React.FC = () => {
  return (
    <div className="card p-3 bg-light">
      <h4 className="mb-3">Add New Plant (UI-only)</h4>
      <form>
        <div className="row mb-3">
          <div className="col">
            <input type="text" className="form-control"
placeholder="Plant name" disabled />
          </div>

```

```

        <div className="col">
            <input type="text" className="form-control"
placeholder="Scientific name" disabled />
        </div>
    </div>

    { /* Row 2: Select Dropdowns */ }
    <div className="row mb-3">
        <div className="col">
            <select className="form-select"
defaultValue="" disabled>
                <option value=""
disabled>Difficulty</option>
                <option value="Easy">Easy</option>
                <option value="Medium">Medium</option>
                <option value="Hard">Hard</option>
            </select>
        </div>
        <div className="col">
            <select className="form-select"
defaultValue="" disabled>
                <option value="" disabled>Light</option>
                <option value="Low">Low</option>
                <option value="Medium">Medium</option>
                <option value="Bright">Bright</option>
            </select>
        </div>
        <div className="col">
            <select className="form-select"
defaultValue="" disabled>
                <option value="" disabled>Water</option>
                <option value="Low">Low</option>
                <option value="Moderate">Moderate</option>
                <option value="Frequent">Frequent</option>
            </select>
        </div>
    </div>

```

```

        <div className="mb-3">
          <textarea
            className="form-control"
            placeholder="Short description"
            rows={2}
            disabled
          />
        </div>

        <div>
          <button type="button" className="btn btn-primary
me-2" disabled>
            Add Plant
          </button>
          <button type="button" className="btn btn-outline-
secondary" disabled>
            Clear
          </button>
        </div>
      </form>
    </div>
  );
};

```

plantlist.tsx

```

import React from 'react';
import type { Plant } from './types';

interface PlantListProps {
  plants: Plant[];
  selectedId: number;
  onSelect: (id: number) => void;
}

```



```

const PlantList: React.FC<PlantListProps> = ({ plants, selectedId,
onSelect }) => {
  return (
    <div className="list-group">
      {plants.map((plant) => (
        <button
          key={plant.id}
          type="button"
          // We add 'active' if this plant is the selected one
          className={`list-group-item list-group-item-action
${plant.id === selectedId ? 'active' : ''}`}
          onClick={() => onSelect(plant.id)}
          style={{ cursor: 'pointer' }} // [cite: 32]
        >
          <div className="d-flex w-100 justify-content-between align-
items-center mb-1">
            <h5 className="mb-1">{plant.name}</h5>
            <div>
              /* Badges for Difficulty and Rarity */
              <span className={`badge ${plant.id === selectedId ? 'bg-
light text-dark' : 'bg-success'} me-1`} >
                {plant.difficulty}
              </span>
              <span className={`badge ${plant.id === selectedId ? 'bg-
light text-dark' : 'bg-info text-dark'}`} >
                {plant.rarity}
              </span>
            </div>
          </div>
          <p className="mb-1 small">{plant.scientific}</p>
        </button>
      )})}
    </div>
  );
};

export default PlantList;

```