MongoDB Credentials Form: Code Explanation & Setup Guide

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This document provides a breakdown of the MongoDB Credentials Form component, including its structure, installation, and best practices.

1 Imports 🏟

The following libraries and components are used in this project:

```
'use client' // Ensures the component runs on the client-side in
Next.js
import { useState } from "react"; // React's useState hook for state
management
import { Card, CardContent, CardDescription, CardHeader, CardTitle
} from "@/components/ui/card";
// ShadCN UI's Card component for styling
import { ChevronDown, ChevronUp, Database, Key, Server, User }
from "lucide-react";
// Lucide Icons for a modern UI
import { Label } from "@radix-ui/react-label";
import { Input } from "@/components/ui/input";
import { Collapsible, CollapsibleContent, CollapsibleTrigger } from
"@radix-ui/react-collapsible";
import { Button } from "@/components/ui/button";
// Radix UI & ShadCN components for UI interactions.
```

2 State Management @

The component manages user inputs and UI state using useState:

```
const [formData, setFormData] = useState({
    username: "",
    password: "",
    clusterName: "",
    hostname: "",
});

const [isOpen, setIsOpen] = useState(false); // Controls the
    collapsible section
```

3 Handle Input Change Ø

This function updates the form fields dynamically as the user types:

```
const handleChange = (e: React.ChangeEvent<HTMLInputElement>)
=> {
    setFormData({ ...formData, [e.target.name]: e.target.value });
};
```

4 UI Structure **₽**

The form is built using a card container with form fields and labels.

S Card Container

A centered card with shadows & borders for a sleek look:

```
<Card className="w-full max-w-md border-2 border-gray-900 shadow-lg">
```

Form Fields

Each field includes a label, an input field, and an icon:

6 Submit Button (1)

A black button with a hover effect that turns transparent:

<Button type="submit" className="w-full bg-black hover:bgtransparent hover:text-black border-2 border-black transition-all duration-500"> Submit Credentials </Button>

% Installation Instructions

Run the following commands in your Next.js project:

- 1 Install lucide-react (Icons) © npm install lucide-react
- 2 Install & Initialize shadon/ui (UI Components)

 npx shadon@latest init -d
- 3 Add UI Components (Card, Input, Button)
 npx shadcn@latest add card input button
- Install @radix-ui/react-label (Form Labels)

 npm install @radix-ui/react-label