

# Portfolio Collection Website - Next.js Setup Guide - What I am doing

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## Phase 1: Project Initialization & Setup

### Step 1: Create Next.js Project

```
# Create the project with TypeScript and App Router
npx create-next-app@latest portfolio-collection --typescript --tailwind --
eslint --app --src-dir --import-alias "@/*"

# Navigate to project directory
cd portfolio-collection
```

### Step 2: Install Required Dependencies

```
# Core dependencies
npm install firebase @reduxjs/toolkit react-redux redux-persist

# UI and Form handling
npm install react-hook-form @hookform/resolvers zod lucide-react

# PDF generation
npm install jspdf html2pdf.js @types/jspdf

# Additional utilities
npm install clsx tailwind-merge date-fns

# Development dependencies
npm install -D @types/node @types/react @types/react-dom
```

### Step 3: Project Folder Structure

```
portfolio-collection/
├── public/
│   ├── icons/
│   └── images/
├── src/
│   ├── app/
│   │   ├── (auth)/
│   │   │   ├── login/
│   │   │   │   └── page.tsx # DONE
│   │   │   ├── register/
│   │   │   │   └── page.tsx # DONE
```

```

└─ layout.tsx # DONE
└─ (dashboard)/
  └─ dashboard/
    └─ page.tsx # DONE
  └─ portfolio/
    └─ create/
      └─ page.tsx # DONE
    └─ edit/
      └─ page.tsx # DONE
    └─ [id]/
      └─ page.tsx # DONE
  └─ directory/
    └─ page.tsx # DONE
  └─ admin/
    └─ categories/
      └─ page.tsx # DONE
    └─ requests/
      └─ page.tsx # DONE
    └─ page.tsx # DONE
  └─ layout.tsx # DONE
└─ api/
  └─ auth/
  └─ portfolio/
  └─ categories/
└─ globals.css
└─ layout.tsx
└─ page.tsx # DONE
└─ loading.tsx # DONE
└─ not-found.tsx # DONE
└─ components/
  └─ ui/
    └─ button.tsx # DONE
    └─ input.tsx # DONE
    └─ card.tsx # DONE
    └─ modal.tsx # DONE
    └─ toast.tsx # DONE
    └─ index.ts # DONE
  └─ auth/
    └─ LoginForm.tsx # DONE
    └─ RegisterForm.tsx # DONE
    └─ PasswordReset.tsx # DONE
    └─ AuthProvider.tsx # DONE
  └─ portfolio/
    └─ MultiStepForm/
      └─ Step1PersonalInfo.tsx # DONE
      └─ Step2Education.tsx # DONE
      └─ Step3SkillsExperience.tsx # DONE
      └─ Step4Projects.tsx # DONE
      └─ FormNavigation.tsx # DONE
      └─ index.tsx # DONE
    └─ PortfolioCard.tsx # DONE
    └─ PortfolioView.tsx # DONE
    └─ PortfolioDirectory.tsx # DONE

```

```

├── SkillCategorySelector.tsx # DONE
├── PDFExport.tsx # DONE
├── admin/
│   ├── CategoryManagement.tsx # DONE
│   ├── RequestApproval.tsx # DONE
│   └── AdminPanel.tsx # DONE
├── layout/
│   ├── Header.tsx # DONE
│   ├── Sidebar.tsx # DONE
│   ├── Footer.tsx # DONE
│   └── Navigation.tsx # DONE
├── common/
│   ├── LoadingSpinner.tsx # DONE
│   ├── ErrorBoundary.tsx # DONE
│   ├── ProtectedRoute.tsx # DONE
│   └── SEO.tsx # DONE
├── lib/
│   ├── firebase/
│   │   ├── config.ts # DONE
│   │   ├── auth.ts # DONE
│   │   ├── firestore.ts # DONE
│   │   └── storage.ts # DONE
│   ├── redux/
│   │   ├── store.ts # DONE
│   │   ├── slices/
│   │   │   ├── authSlice.ts # DONE
│   │   │   ├── portfolioSlice.ts # DONE
│   │   │   ├── skillCategoriesSlice.ts # DONE
│   │   │   ├── categoryRequestsSlice.ts # DONE
│   │   │   └── uiSlice.ts # DONE
│   │   └── providers.tsx # DONE
│   ├── hooks/
│   │   ├── useAuth.ts # DONE
│   │   ├── useDebounce.ts # DONE
│   │   ├── usePortfolio.ts # DONE
│   │   ├── useSkillCategories.ts # DONE
│   │   ├── useCategoryRequests.ts # DONE
│   │   └── useLocalStorage.ts # DONE
│   ├── utils/
│   │   ├── validation.ts # DONE
│   │   ├── formatters.ts # DONE
│   │   ├── constants.ts # DONE
│   │   ├── pdf-generator.ts # DONE
│   │   └── helpers.ts # DONE
│   └── types/
│       ├── auth.ts # DONE
│       ├── portfolio.ts # DONE
│       ├── skillCategories.ts # DONE
│       ├── index.ts # DONE
│       └── ui.ts # DONE
├── styles/
│   └── components.css
└── .env.local

```

```
├── .env.example
├── .gitignore
├── next.config.js
├── tailwind.config.js
├── tsconfig.json
├── package.json
└── README.md
```

## Phase 2: Configuration Files Setup

### Environment Variables (.env.local)

```
# Firebase Configuration
NEXT_PUBLIC_FIREBASE_API_KEY=your_api_key
NEXT_PUBLIC_FIREBASE_AUTH_DOMAIN=your_project.firebaseio.com
NEXT_PUBLIC_FIREBASE_PROJECT_ID=your_project_id
NEXT_PUBLIC_FIREBASE_STORAGE_BUCKET=your_project.appspot.com
NEXT_PUBLIC_FIREBASE_MESSAGING_SENDER_ID=your_sender_id
NEXT_PUBLIC_FIREBASE_APP_ID=your_app_id

# Admin Configuration
NEXT_PUBLIC_ADMIN_EMAILS=admin1@example.com,admin2@example.com

# App Configuration
NEXT_PUBLIC_APP_URL=http://localhost:3000
NEXT_PUBLIC_APP_NAME=Portfolio Collection
```

### Next.js Configuration (next.config.js)

```
/** @type {import('next').NextConfig} */
const nextConfig = {
  experimental: {
    appDir: true,
  },
  images: {
    domains: ["firebasestorage.googleapis.com"],
    formats: ["image/webp", "image/avif"],
  },
  env: {
    CUSTOM_KEY: process.env.CUSTOM_KEY,
  },
};

module.exports = nextConfig;
```

### Tailwind Configuration (tailwind.config.js)

```

/** @type {import('tailwindcss').Config} */
module.exports = {
  darkMode: ["class"],
  content: [
    "./pages/**/*.ts,tsx",
    "./components/**/*.ts,tsx",
    "./app/**/*.ts,tsx",
    "./src/**/*.ts,tsx",
  ],
  theme: {
    container: {
      center: true,
      padding: "2rem",
      screens: {
        "2xl": "1400px",
      },
    },
    extend: {
      colors: {
        border: "hsl(var(--border))",
        input: "hsl(var(--input))",
        ring: "hsl(var(--ring))",
        background: "hsl(var(--background))",
        foreground: "hsl(var(--foreground))",
        primary: {
          DEFAULT: "hsl(var(--primary))",
          foreground: "hsl(var(--primary-foreground))",
        },
        secondary: {
          DEFAULT: "hsl(var(--secondary))",
          foreground: "hsl(var(--secondary-foreground))",
        },
        destructive: {
          DEFAULT: "hsl(var(--destructive))",
          foreground: "hsl(var(--destructive-foreground))",
        },
        muted: {
          DEFAULT: "hsl(var(--muted))",
          foreground: "hsl(var(--muted-foreground))",
        },
        accent: {
          DEFAULT: "hsl(var(--accent))",
          foreground: "hsl(var(--accent-foreground))",
        },
        popover: {
          DEFAULT: "hsl(var(--popover))",
          foreground: "hsl(var(--popover-foreground))",
        },
        card: {
          DEFAULT: "hsl(var(--card))",
          foreground: "hsl(var(--card-foreground))",
        },
      },
    },
  },
}

```

```

    },
  },
  borderRadius: {
    lg: "var(--radius)",
    md: "calc(var(--radius) - 2px)",
    sm: "calc(var(--radius) - 4px)",
  },
  keyframes: {
    "accordion-down": {
      from: { height: 0 },
      to: { height: "var(--radix-accordion-content-height)" },
    },
    "accordion-up": {
      from: { height: "var(--radix-accordion-content-height)" },
      to: { height: 0 },
    },
  },
  animation: {
    "accordion-down": "accordion-down 0.2s ease-out",
    "accordion-up": "accordion-up 0.2s ease-out",
  },
},
},
plugins: [require("tailwindcss-animate")],
};

```

## Phase 3: Initial Development Steps

### Step 1: Setup Firebase Configuration

1. Create a Firebase project at <https://console.firebase.google.com>
2. Enable Authentication (Email/Password and Google)
3. Create Firestore database
4. Set up Firestore security rules
5. Copy configuration to `.env.local`

### Step 2: Setup TypeScript Types

Create comprehensive type definitions for the entire application.

### Step 3: Setup Redux Store

Configure Redux Toolkit with proper slices for state management.

### Step 4: Create Base Components

Start with UI components, then authentication, then portfolio components.

### Step 5: Implement Authentication

Set up Firebase authentication with protected routes.

## Next Steps

1. **Phase 1:** Complete project setup and Firebase configuration
2. **Phase 2:** Implement authentication system
3. **Phase 3:** Build portfolio creation multi-step form
4. **Phase 4:** Add portfolio viewing and directory features
5. **Phase 5:** Implement admin panel and category management
6. **Phase 6:** Add PDF export functionality
7. **Phase 7:** Testing and deployment

Would you like me to proceed with detailed implementation of any specific phase?