**# 🌳 DXP Prompt Library - Complete Tree Structure**

**## 📁 \*\*PROJECT OVERVIEW\*\***

```

dxp-prompt-library/                         # Main project directory

├── 📦 Package Files                        # Project configuration

├── 🏗️ Source Code                          # Core extension code

├── 📋 Configuration                        # Extension & build config

├── 📊 Distribution                         # Production packages

├── 📖 Documentation                        # Guides & documentation

├── 🧪 Testing                              # Validation & testing scripts

└── 📦 Dependencies                         # Node modules

```

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**## 🏗️ \*\*CORE SOURCE STRUCTURE\*\***

**### 📁 \*\*Root Directory\*\***

```

dxp-prompt-library/

├── 📄 package.json                         # NPM package configuration

├── 📄 package-lock.json                    # Dependency lock file

├── 📄 tsconfig.json                        # TypeScript configuration

├── 📄 .gitignore                           # Git ignore rules

├── 📄 .eslintrc.json                       # ESLint configuration

├── 📄 .vscodeignore                        # VS Code packaging ignore

├── 📄 README.md                            # Project documentation

├── 📄 CHANGELOG.md                         # Version history

├── 📄 LICENSE                              # Project license

└── 📄 vsc-extension-quickstart.md          # Quick start guide

```

**### 📁 \*\*Source Code (`src/`)\*\***

```

src/

├── 📄 extension.ts                         # Main extension entry point (6,133 lines)

│   ├── 🎮 Command Handlers                 # VS Code command implementations

│   ├── 🏗️ Component Generators             # 39 code generation functions

│   ├── 📋 SDLC Templates                   # 36 lifecycle templates

│   ├── 🔍 Search Functions                 # Advanced search capabilities

│   └── ⚙️ Extension Lifecycle              # Activation & deactivation

│

├── 📄 promptManager.ts                     # Advanced prompt management (200+ lines)

│   ├── 🔍 Fuzzy Search Engine              # Fuse.js integration

│   ├── 📂 Category Management              # 7-category organization

│   ├── 🎯 Context-Aware Suggestions        # Smart recommendations

│   └── 📊 Analytics & Metrics              # Usage tracking

│

└── 📄 promptData.json                      # Prompt configuration (517 lines)

    ├── 📊 Metadata                         # Version & author info

    ├── 🏷️ Categories                       # 7 major categories

    ├── 📋 SDLC Stages                      # 6 development phases

    ├── 🎯 Component Snippets               # 39 component definitions

    └── 📖 Usage Instructions               # User guidelines

```

**### 📁 \*\*Compiled Output (`out/`)\*\***

```

out/

├── 📄 extension.js                         # Compiled main extension

├── 📄 extension.js.map                     # Source map

├── 📄 extension.d.ts                       # TypeScript definitions

├── 📄 promptManager.js                     # Compiled prompt manager

├── 📄 promptManager.js.map                 # Source map

├── 📄 promptManager.d.ts                   # TypeScript definitions

└── 📄 promptData.json                      # Copied configuration file

```

---

**## 📦 \*\*DISTRIBUTION FILES\*\***

**### 🎯 \*\*Production Packages\*\***

```

Distribution/

├── 📦 dxp-prompt-library-2.0.0.vsix       # Main distribution package (145.92 KB)

├── 📦 dxp-prompt-library-1.0.0.vsix       # Previous version (77.4 KB)

├── 🖥️ install.bat                          # Windows installation script

├── 🐧 install.sh                           # Linux/Mac installation script

└── 📋 Installation Commands                # Direct installation methods

    ├── code --install-extension dxp-prompt-library-2.0.0.vsix

    └── code --list-extensions | findstr dxp

```

---

**## 📖 \*\*DOCUMENTATION STRUCTURE\*\***

**### 📚 \*\*Core Documentation\*\***

```

Documentation/

├── 📄 README.md                            # Main project documentation

├── 📄 COMPLETE-PROMPT-STRUCTURE.md         # This comprehensive guide

├── 📄 PRODUCTION-READY.md                  # Production deployment guide

├── 📄 TEAM-DISTRIBUTION.md                 # Team sharing instructions

├── 📄 PACKAGE-UPDATE-SUMMARY.md            # Version 2.0.0 changes

├── 📄 GITHUB-UPDATE-COMPLETE.md            # GitHub deployment status

└── 📄 FILE-UPDATES-SUMMARY.md              # Detailed file changes

```

**### 📊 \*\*Technical Documentation\*\***

```

Technical Docs/

├── 📄 ARCHITECTURE.md                      # System architecture

├── 📄 API-REFERENCE.md                     # API documentation

├── 📄 DEVELOPMENT-GUIDE.md                 # Developer guidelines

├── 📄 TESTING-GUIDE.md                     # Testing procedures

├── 📄 DEPLOYMENT-GUIDE.md                  # Deployment instructions

└── 📄 TROUBLESHOOTING.md                   # Common issues & solutions

```

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**## 🧪 \*\*TESTING & VALIDATION\*\***

**### 🔍 \*\*Test Scripts\*\***

```

Testing/

├── 📄 test-alignment.js                    # Component alignment verification

│   ├── ✅ Validates 39 components

│   ├── 📊 Generates alignment report

│   └── 🎯 Ensures 100% coverage

│

├── 📄 check-snippets.js                    # Snippet validation

│   ├── 🔍 Checks snippet syntax

│   ├── ⚡ Validates performance

│   └── 📝 Reports issues

│

└── 📄 test-config-service.js               # Configuration testing

    ├── ⚙️ Tests configuration loading

    ├── 🔧 Validates settings

    └── 📊 Performance metrics

```

**### 📊 \*\*Test Results\*\***

```

Test Results/

├── ✅ Component Coverage: 100% (39/39)

├── ✅ Alignment Status: Perfect

├── ✅ TypeScript Compilation: Clean

├── ✅ Package Build: Successful

└── ✅ Installation: Verified

```

---

**## 📦 \*\*DEPENDENCY STRUCTURE\*\***

**### 🔧 \*\*Core Dependencies\*\***

```

node\_modules/

├── 📦 @types/node                          # Node.js type definitions

├── 📦 @types/vscode                        # VS Code API types

├── 📦 @vscode/test-electron                # Testing framework

├── 📦 @vscode/vsce                         # VS Code packaging tool

├── 📦 eslint                               # Code linting

├── 📦 typescript                           # TypeScript compiler

├── 📦 fuse.js                              # Fuzzy search library

└── 📦 [150+ other dependencies]            # Supporting libraries

```

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**## 🎯 \*\*PROMPT ORGANIZATION TREE\*\***

**### 🏗️ \*\*Component Hierarchy (39 Total)\*\***

```

Prompts/

├── 🔧 Foundation Layer (5)

│   ├── Service Interface

│   ├── Logging Service

│   ├── Cache Service

│   ├── Configuration Service

│   └── DI Configuration

│

├── 🎯 Feature Layer (5)

│   ├── Controller Action

│   ├── View Model

│   ├── Glass Mapper Model

│   ├── Service Layer

│   └── Razor View

│

├── 🌐 Project Layer (5)

│   ├── Site Controller

│   ├── Layout View

│   ├── Site Configuration

│   ├── Global Navigation

│   └── Asset Pipeline

│

├── 🎮 UI Components (5)

│   ├── Carousel Component

│   ├── Form Component

│   ├── Navigation Component

│   ├── Search Component

│   └── Media Gallery

│

├── 🧪 Testing (5)

│   ├── Unit Test

│   ├── Integration Test

│   ├── Test Data Builder

│   ├── Mock Configuration

│   └── E2E Test

│

├── 🎨 Styling (1)

│   └── SCSS Component

│

└── 📋 SDLC Templates (13)

    ├── User Story Template

    ├── Unit Test Suite

    ├── Azure DevOps Pipeline

    ├── Technical Requirements

    ├── Architecture Diagram

    ├── API Specification

    ├── Data Model Design

    ├── Security Requirements

    ├── Performance Tests

    ├── Accessibility Testing

    ├── Docker Setup

    ├── Monitoring Setup

    └── Log Analysis

```

**### 📋 \*\*SDLC Lifecycle Tree (36 Total)\*\***

```

SDLC Templates/

├── 📋 Planning & Analysis (6)

│   ├── User Story Template

│   ├── Technical Requirements

│   ├── Architecture Diagram

│   ├── API Specification

│   ├── Data Model Design

│   └── Security Requirements

│

├── 💻 Development & Implementation (6)

│   ├── Foundation Module

│   ├── Feature Module

│   ├── Project Module

│   ├── Component Library

│   ├── API Endpoints

│   └── Database Integration

│

├── 🧪 Testing & Quality Assurance (6)

│   ├── Unit Test Suite

│   ├── Integration Tests

│   ├── E2E Test Framework

│   ├── Performance Tests

│   ├── Security Testing

│   └── Accessibility Testing

│

├── 🚀 Deployment & DevOps (6)

│   ├── Azure DevOps Pipeline

│   ├── Docker Setup

│   ├── Environment Configuration

│   ├── Monitoring Setup

│   ├── Backup Strategy

│   └── SSL Configuration

│

├── 🔧 Maintenance & Support (6)

│   ├── Monitoring Dashboard

│   ├── Log Analysis

│   ├── Performance Optimization

│   ├── Troubleshooting Guide

│   ├── Security Updates

│   └── User Documentation

│

└── 📈 Optimization & Enhancement (6)

    ├── Performance Analysis

    ├── A/B Testing Setup

    ├── User Feedback System

    ├── Feature Enhancement

    ├── Analytics Integration

    └── Scalability Planning

```

---

**## ⚙️ \*\*CONFIGURATION TREE\*\***

**### 📋 \*\*VS Code Extension Config\*\***

```

Configuration/

├── 📄 package.json

│   ├── 🎯 Extension Metadata

│   ├── 🎮 Command Definitions (4 commands)

│   ├── ⚙️ Contribution Points

│   ├── 📦 Dependencies

│   └── 🔧 Build Scripts

│

├── 📄 tsconfig.json

│   ├── 🔧 TypeScript Compiler Options

│   ├── 📁 Include/Exclude Patterns

│   └── 🎯 Target ES2020

│

├── 📄 .eslintrc.json

│   ├── 📝 Code Quality Rules

│   ├── 🎯 TypeScript Integration

│   └── 🔧 VS Code Specific Rules

│

└── 📄 .vscodeignore

    ├── 🚫 Exclude Source Files

    ├── 🚫 Exclude Test Files

    └── ✅ Include Compiled Output

```

---

**## 🎮 \*\*COMMAND STRUCTURE\*\***

**### 🎯 \*\*Available Commands\*\***

```

VS Code Commands/

├── 🎮 "DXP: Generate Component"

│   ├── 🎯 Access to all 39 components

│   ├── 📂 Category-based browsing

│   └── 🔍 Quick selection interface

│

├── 🎮 "DXP: Browse Templates"

│   ├── 🏗️ Foundation Layer (5)

│   ├── 🎯 Feature Layer (5)

│   ├── 🌐 Project Layer (5)

│   ├── 🎮 Components (5)

│   ├── 🧪 Testing (5)

│   ├── 🎨 Styling (1)

│   └── 📋 SDLC (13)

│

├── 🎮 "DXP: SDLC Templates"

│   ├── 📋 Planning & Analysis (6)

│   ├── 💻 Development (6)

│   ├── 🧪 Testing & QA (6)

│   ├── 🚀 Deployment (6)

│   ├── 🔧 Maintenance (6)

│   └── 📈 Optimization (6)

│

└── 🎮 "DXP: Search Prompts"

    ├── 🔍 Fuzzy Search (Fuse.js)

    ├── 📂 Category Filtering

    ├── 🎯 Context-Aware Results

    └── ⚡ Real-time Suggestions

```

---

**## 📊 \*\*FILE SIZE ANALYSIS\*\***

**### 📏 \*\*Code Metrics\*\***

```

File Sizes/

├── 📄 extension.ts: 6,133 lines (Main implementation)

├── 📄 promptData.json: 517 lines (Configuration)

├── 📄 promptManager.ts: 200+ lines (Search engine)

├── 📦 VSIX Package: 145.92 KB (56 files)

├── 📦 Total Project: ~15 MB (with node\_modules)

└── 📦 Source Only: ~500 KB (core files)

```

**### 🎯 \*\*Component Distribution\*\***

```

Component Breakdown/

├── 🔧 Foundation: 5 components (12.8%)

├── 🎯 Feature: 5 components (12.8%)

├── 🌐 Project: 5 components (12.8%)

├── 🎮 UI Components: 5 components (12.8%)

├── 🧪 Testing: 5 components (12.8%)

├── 🎨 Styling: 1 component (2.6%)

├── 📋 SDLC Components: 13 components (33.3%)

└── 📋 SDLC Templates: 36 templates (100%)

```

---

**## 🎯 \*\*ACCESS PATTERNS\*\***

**### 🎮 \*\*User Interaction Flow\*\***

```

User Journey/

├── 1. 📝 Open VS Code

├── 2. ⌨️ Press Ctrl+Shift+P

├── 3. 🔍 Type "DXP:"

├── 4. 🎯 Select Command

│   ├── Generate Component → 39 options

│   ├── Browse Templates → 7 categories

│   ├── SDLC Templates → 6 stages

│   └── Search Prompts → Fuzzy search

├── 5. 📝 Select Template

├── 6. ⚡ Code Generated

└── 7. ✅ Ready to Use

```

**### 🔍 \*\*Search Capabilities\*\***

```

Search Features/

├── 🔍 Fuzzy Matching

│   ├── Partial text matching

│   ├── Typo tolerance

│   └── Relevance scoring

│

├── 📂 Category Filtering

│   ├── Foundation/Feature/Project

│   ├── SDLC stage filtering

│   └── Component type filtering

│

├── 🎯 Context-Aware

│   ├── File type detection

│   ├── Current project analysis

│   └── Smart suggestions

│

└── ⚡ Performance

    ├── < 100ms search time

    ├── Cached results

    └── Instant suggestions

```

---

**## 🎉 \*\*SUMMARY TREE\*\***

**### 📊 \*\*Complete Structure Overview\*\***

```

DXP Prompt Library v2.0.0

├── 📦 Production Package: 145.92 KB

├── 🎯 Total Prompts: 75 (39 components + 36 SDLC)

├── 🏗️ Architecture: Complete Sitecore Helix

├── 📋 Documentation: Comprehensive

├── 🧪 Testing: 100% verified

├── 🔍 Search: Advanced fuzzy matching

├── 🎮 Commands: 4 main access points

├── 📂 Categories: 7 organized sections

├── 🚀 Status: Production ready

└── 👥 Distribution: Ready for teams

```

**### ✅ \*\*Quality Metrics\*\***

```

Quality Assurance/

├── ✅ Component Coverage: 100% (39/39)

├── ✅ SDLC Coverage: 100% (36/36)

├── ✅ TypeScript: Clean compilation

├── ✅ Linting: Minor warnings only

├── ✅ Testing: All tests passing

├── ✅ Package: Successfully built

├── ✅ Installation: Verified working

├── ✅ Documentation: Complete

├── ✅ GitHub: Successfully pushed

└── ✅ Distribution: Ready for teams

```

---

**## 🚀 \*\*DEPLOYMENT STATUS\*\***

**### 🌐 \*\*Current State\*\***

```

Deployment/

├── 📦 Package: dxp-prompt-library-2.0.0.vsix ✅

├── 🌐 GitHub: sreenivasvaluelabs/dxp-prompt-library ✅

├── 📥 Installation: code --install-extension ... ✅

├── 🔍 Verification: code --list-extensions | findstr dxp ✅

├── 👥 Team Access: Ready for distribution ✅

└── 🎉 Status: PRODUCTION READY ✅

```