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Modern Project Creation
Create cutting-edge projects with Scale's intelligent project generation system.
## Overview
Scale's project creation feature allows you to instantly generate modern,
production-ready projects with best practices built-in. Choose from 6 different
project types, each optimized for specific use cases and automatically configured with
the latest tools and frameworks.
## Supported Project Types
### 🔯 React Application
 **TypeScript** pre-configured
 **Vite** for lightning-fast development
 **ESLint** and **Prettier** for code quality
 **Tailwind CSS** for styling
 **React Router** for navigation
 **Testing** setup with Vitest
### 🚀 Next.js Application
 **Full-stack** React framework
 **TypeScript** support
  **App Router** (latest Next.js 14+)
  **Tailwind CSS** styling
 **API routes** ready
  **Deployment** optimized
### 🗲 Vite Application
 **Ultra-fast** development server
 **Hot Module Replacement** (HMR)
  **TypeScript** support
  **Multiple framework** options (React, Vue, Vanilla)
  **Build optimization**
 **Plugin ecosystem**
### 🛑 Node.js API
 **Express.js** server framework
 **TypeScript** configuration
 **RESTful API** structure
  **Middleware** setup
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**Environment** configuration
 **Testing** with Jest
### 🎨 Vue.js Application
 **Vue 3** with Composition API
  **TypeScript** support
 **Vite** build tool
 **Vue Router** for navigation
 **Pinia** for state management
 **Component** library ready
### 📱 React Native Application
 **Cross-platform** mobile development
 **TypeScript** pre-configured
 **Navigation** setup
 **State management** ready
 **Testing** environment
 **Build** scripts configured
## How to Create a Project
### Method 1: Quick Access (Recommended)
1. **Open Quick Access**: `Ctrl+Shift+P` → "Scale: Quick Access"
2. **Select "Create Project"**
3. **Choose your project type** from the list
4. **Enter project details**:
 - Additional options
5. **Wait for generation** (usually 30-60 seconds)
6. **Open the new project** in VS Code
### Method 2: Command Palette
1. **Open Command Palette**: `Ctrl+Shift+P`
2. **Type**: "Scale: Create Project"
3. **Follow the same steps** as above
### Method 3: Sidebar
1. **Click the Scale icon** in the sidebar
2. **Click "Create Project"** button
3. **Follow the project creation wizard**
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## Project Creation Process
### Step 1: Project Type Selection
Choose from:
🕸 React App - Modern React with TypeScript
🚀 Next.js App - Full-stack React framework

✓ Vite App - Lightning-fast development

Node.js API - Express server with TypeScript
🎨 Vue.js App - Vue 3 with Composition API
React Native App - Cross-platform mobile
### Step 2: Configuration
 **Project Name**: Enter a descriptive name
 **Location**: Choose where to create the project
 **Template Options**: Select additional features
 **Package Manager**: Choose npm, yarn, or pnpm
### Step 3: Generation
Scale will:

    **Create** the project directory

2. **Generate** all necessary files
3. **Install** dependencies automatically
4. **Configure** development tools
5. **Set up** best practices
### Step 4: Ready to Code
**Open** the project in VS Code
 **Start** the development server
 **Begin** coding immediately
## Project Templates
### React Application Structure
my-react-app/
 — public/
   L- index.html
    -- components/
    - pages/
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- hooks/
    - utils/
    -- App.tsx
  - package.json
- vite.config.ts
L___ tailwind.config.js
### Next.js Application Structure
my-nextjs-app/
 <u> —</u> арр/
  --- api/
   - components/
  - globals.css
    - layout.tsx
   L-- page.tsx
-- public/
- package.json
### Node.js API Structure
my-api/
--- src/
   -- controllers/
   --- middleware/
    -- models/
    -- routes/
    -- utils/
   L- server.ts
  - package.json
L- .env.example
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## Advanced Configuration
### Custom Templates
Scale allows you to:
 **Modify** existing templates
 **Add** custom configurations
 **Include** additional dependencies
 **Set up** specific tools
### Environment Setup
Each project includes:
 **Development** environment configuration
 **Production** build optimization
 **Testing** setup
 **Linting** and formatting rules
 **Git** initialization
## Best Practices
### Project Naming
- Use **kebab-case** for project names
 Keep names **descriptive** but concise
 Avoid **special characters** and spaces
 Consider **future scalability**
### Directory Organization
Follow **framework conventions**
 Use **clear folder structures**
 Separate **concerns** appropriately
 Include **documentation** files
### Development Workflow
1. **Create** project with Scale
2. **Review** generated structure
3. **Customize** as needed
4. **Set up** version control
5. **Start** development
### Code Quality

    Use **TypeScript** for type safety

 Format with **Prettier**
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Write **tests** from the start
 Document **complex logic**
## Troubleshooting
### Common Issues
#### Project Creation Fails
**Problem**: Error during project generation
**Solutions**:
 Check **internet connection**
 Verify **disk space** availability
 Ensure **write permissions** in target directory
 Try a **different project name**
#### Dependencies Not Installing
**Problem**: npm/yarn install fails
**Solutions**:
 Check **package manager** installation
 Clear **cache**: `npm cache clean --force`
 Try **different package manager**
 Check **network connectivity**
#### TypeScript Errors
**Problem**: TypeScript configuration issues
**Solutions**:
 Check **TypeScript version** compatibility
 Restart **TypeScript server** in VS Code
 Update **@types** packages
#### Build Failures
**Problem**: Project won't build or start
**Solutions**:
 Check **Node.js version** compatibility
 Verify **all dependencies** are installed
 Check **console errors** for details
### Getting Help
 Check **project documentation**
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Review **framework-specific** guides
 Ask in **community forums**
## Examples
### Creating a React E-commerce App
# Using Scale Quick Access
1. Ctrl+Shift+P → "Scale: Quick Access"
2. Select "Create Project"
3. Choose "React App"
4. Name: "my-ecommerce-store"
5. Add: React Router, Tailwind CSS, Axios
6. Generate and start coding!
### Building a Next.js Blog
# Complete setup in minutes
1. Scale → Create Project → Next.js App
2. Name: "my-blog"
3. Features: App Router, Tailwind, MDX
4. Ready with: SEO, routing, styling
### Node.js API for Mobile App
1. Scale → Create Project → Node.js API
2. Name: "mobile-api"
3. Features: Express, TypeScript, JWT auth
4. Includes: CORS, validation, testing
## Related Documentation
 [Database Integration] (./database-integration.md) - Connect your project to
databases
 [AI Chat & Agent](./ai-chat-agent.md) - Get help during development
 [Terminal Integration](../workflow/terminal-integration.md) - Manage your project
 [Testing & Debugging] (.../workflow/testing-debugging.md) - Quality assurance
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