

VIOE Setup Guide

Vulnerability Intelligence & Ownership Engine

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Table of Contents

- [A. Overview](#)
- [B. System Requirements](#)
- [C. Prerequisites Installation](#)
- [D. Repository Setup](#)
- [E. Environment Configuration](#)
- [F. Dependency Installation](#)
- [G. Database & Storage Setup](#)
- [H. Running the Application](#)
- [I. Feature Validation & Testing](#)
- [J. Common Errors & Troubleshooting](#)
- [K. Optional Advanced Setup](#)

A. Overview

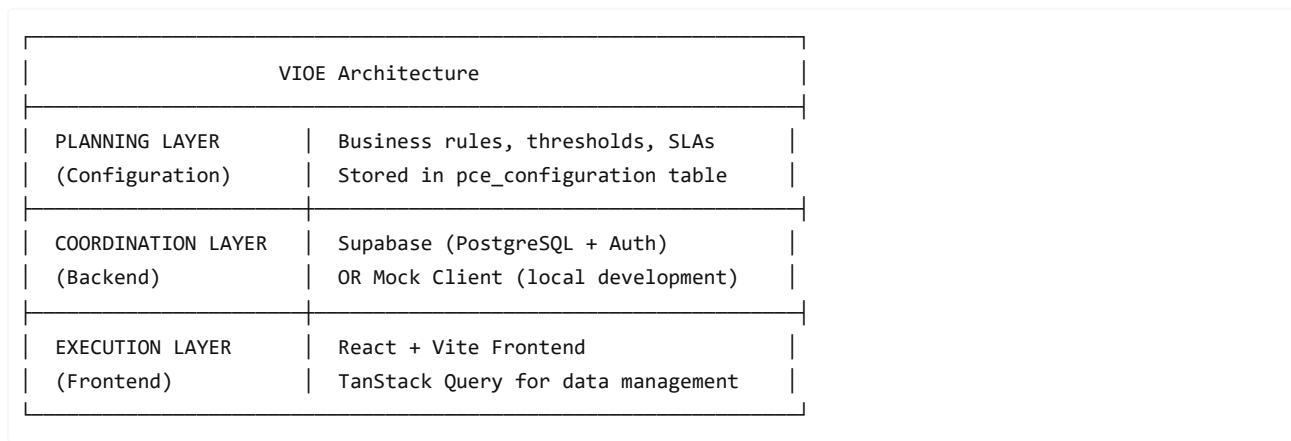
What is VIOE?

VIOE (Vulnerability Intelligence & Ownership Engine) is a comprehensive vulnerability management platform designed to help security teams:

- **Track and manage vulnerabilities** across applications and infrastructure
- **Assign ownership** to appropriate teams with AI-assisted confidence scoring
- **Prioritize remediation** based on risk scoring, CVSS, and EPSS metrics
- **Monitor SLA compliance** with configurable targets by severity
- **Generate compliance reports** for frameworks like SOC2, PCI-DSS, HIPAA, and GDPR
- **Conduct threat hunting** with proactive security investigations
- **Respond to incidents** with structured playbooks and workflows

Architecture Summary

VIOE follows the **PCE (Planning-Coordination-Execution) Framework**:



Technology Stack:

| Layer | Technology |
|-------|------------|
|-------|------------|

| | |
|--------------------|---------------------------|
| Frontend Framework | React 18.2 |
| Build Tool | Vite 6.1 |
| Styling | Tailwind CSS 3.4 |
| UI Components | Radix UI + shadcn/ui |
| Data Fetching | TanStack Query 5.x |
| Charts | Recharts 2.x |
| Backend (Optional) | Supabase (PostgreSQL) |
| Authentication | Mock Auth / Supabase Auth |

What the Local Setup Enables

Full Feature Access in Demo Mode:

- Complete UI with all 16 pages functional
- Mock data simulating realistic vulnerability scenarios
- All dashboard visualizations and charts
- Team performance analytics
- Vulnerability triage and prioritization workflows
- Compliance reporting features
- Threat hunting and incident response interfaces

Supabase Mode (Optional):

- Persistent data storage
- Multi-user authentication
- Row-level security
- Real-time updates

What the Local Setup Does NOT Enable

Limitations:

- **No real vulnerability scanners:** Integration with Snyk, SonarQube, etc. requires additional configuration
- **No Jira/Slack integrations:** External service webhooks are mocked
- **No email notifications:** Email functionality requires SMTP configuration
- **No AI inference:** AI features use simulated responses in demo mode
- **No production security:** Local setup bypasses enterprise security controls

B. System Requirements

Minimum Hardware Requirements

| Component | Minimum | Recommended |
|------------|----------|-------------|
| CPU | 2 cores | 4+ cores |
| RAM | 4 GB | 8+ GB |
| Disk Space | 2 GB | 5+ GB |
| Display | 1280x720 | 1920x1080 |

Supported Operating Systems

| OS | Version | Status |
|---------|--------------------------|---|
| macOS | 12.0 (Monterey) or later | Fully Supported |
| macOS | 11.0 (Big Sur) | Supported |
| Windows | Windows 10 (1903+) | Fully Supported |
| Windows | Windows 11 | Fully Supported |
| Linux | Ubuntu 20.04+ | Supported (instructions similar to macOS) |

Required Software

| Software | Version | Purpose |
|-------------|--|---|
| Node.js | 18.x or 20.x LTS | JavaScript runtime |
| npm | 9.x or 10.x | Package manager (included with Node.js) |
| Git | 2.30+ | Version control |
| Web Browser | Chrome 100+, Firefox 100+, Safari 16+, Edge 100+ | Application access |

Optional Software:

| Software | Version | Purpose |
|--------------|---------|------------------------------|
| Supabase CLI | Latest | For Supabase backend mode |
| VS Code | Latest | Recommended IDE |
| Docker | 20.10+ | For containerized deployment |

C. Prerequisites Installation

macOS Installation

Step 1: Install Homebrew (if not installed)

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

After installation, follow the instructions to add Homebrew to your PATH:

```
echo 'eval "$(/opt/homebrew/bin/brew shellenv)"' >> ~/.zprofile
eval "$(/opt/homebrew/bin/brew shellenv)"
```

Step 2: Install Node.js

```
brew install node@20
```

Verify installation:

```
node --version      # Should output v20.x.x
npm --version      # Should output 10.x.x
```

Step 3: Install Git

```
brew install git
```

Verify installation:

```
git --version # Should output git version 2.x.x
```

Step 4: (Optional) Install Supabase CLI

```
brew install supabase/tap/supabase
```

Verify installation:

```
supabase --version
```

Windows Installation

Step 1: Install Package Manager

Option A: Using Winget (Recommended - Built into Windows 10/11)

Winget comes pre-installed on Windows 10 (version 1809+) and Windows 11.

Verify winget is available:

```
winget --version
```

Option B: Using Chocolatey

Open PowerShell as Administrator and run:

```
Set-ExecutionPolicy Bypass -Scope Process -Force  
[System.Net.ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::SecurityProtocol -bor 3072  
iex ((New-Object System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.ps1'))
```

Close and reopen PowerShell to use Chocolatey.

Step 2: Install Node.js

Using Winget:

```
winget install OpenJS.NodeJS.LTS
```

Using Chocolatey:

```
choco install nodejs-lts -y
```

Close and reopen your terminal, then verify:

```
node --version # Should output v20.x.x
```

```
npm --version      # Should output 10.x.x
```

Step 3: Install Git

Using Winget:

```
winget install Git.Git
```

Using Chocolatey:

```
choco install git -y
```

Close and reopen your terminal, then verify:

```
git --version      # Should output git version 2.x.x
```

Step 4: (Optional) Install Supabase CLI

```
npm install -g supabase
```

Or using Chocolatey:

```
choco install supabase -y
```

D. Repository Setup

Step 1: Clone the Repository

macOS / Windows (Git Bash or PowerShell):

```
git clone https://github.com/your-org/VIOE.git  
cd VIOE
```

Note: Replace `https://github.com/your-org/VIOE.git` with your actual repository URL.

If you received the codebase as a ZIP file:

```
# Extract the ZIP file to your desired location  
# Navigate to the extracted folder  
cd VIOE
```

Step 2: Verify Repository Structure

After cloning, verify the following structure exists:

```
VIOE/  
|   └── extracted_app/          # Main application directory  
|       |   └── src/            # Source code  
|       |       └── api/        # API layer (mock & Supabase adapters)  
|       |       └── components/ # React components  
|       |       └── contexts/  # React contexts (Auth)  
|       |       └── hooks/     # Custom React hooks
```

```

|   |   └── lib/           # Utility functions
|   |   └── pages/         # Page components
|   ├── .env.example       # Environment template
|   ├── index.html         # HTML entry point
|   ├── package.json        # Dependencies
|   ├── tailwind.config.js # Tailwind CSS config
|   └── vite.config.js     # Vite build config
└── supabase/             # Supabase backend files
    ├── schema.sql          # Database schema
    ├── seed.sql             # Sample data
    └── README.md            # Supabase setup guide
└── VIOE_Documentation/   # Additional documentation

```

Directory Structure Explanation

| Directory | Purpose |
|-------------------------------|---|
| extracted_app/ | Main React application |
| extracted_app/src/api/ | Data layer with mock and Supabase adapters |
| extracted_app/src/components/ | Reusable UI components organized by feature |
| extracted_app/src/pages/ | Page-level components (16 pages total) |
| extracted_app/src/context/ | React Context providers (Authentication) |
| supabase/ | Database schema and seed data for Supabase mode |

E. Environment Configuration

Step 1: Create Environment File

Navigate to the application directory and copy the example environment file:

macOS:

```
cd extracted_app
cp .env.example .env
```

Windows (PowerShell):

```
cd extracted_app
Copy-Item .env.example .env
```

Step 2: Configure Environment Variables

Open the `.env` file in your preferred text editor and configure the following:

Minimal Configuration (Demo Mode)

For quick local testing with mock data, use these settings:

```
# API Configuration
VITE_API_MODE=mock

# Authentication
```

```

VITE_AUTH_PROVIDER=mock

# Feature Flags
VITE_DEMO_MODE=true
VITE_AI_FEATURES_ENABLED=true

# Development
VITE_LOG_LEVEL=debug
VITE_ENABLE_DEVTOOLS=true
VITE_MOCK_DELAY=100

```

Full Configuration (Supabase Mode)

For persistent data with Supabase:

```

# API Configuration
VITE_API_MODE=supabase

# Supabase Configuration (REQUIRED for supabase mode)
VITE_SUPABASE_URL=https://your-project.supabase.co
VITE_SUPABASE_ANON_KEY=your-anon-key-here

# Authentication
VITE_AUTH_PROVIDER=mock

# Feature Flags
VITE_DEMO_MODE=false
VITE_AI_FEATURES_ENABLED=true
VITE_JIRA_INTEGRATION_ENABLED=false
VITE_SLACK_INTEGRATION_ENABLED=false

# External Services (Optional)
VITE_JIRA_BASE_URL=
VITE_JIRA_PROJECT_KEY=
VITE_SLACK_WEBHOOK_URL=

# Monitoring (Optional)
VITE_SENTRY_DSN=
VITE_LOG_LEVEL=info

# Development
VITE_ENABLE_DEVTOOLS=true

```

Environment Variables Reference

| Variable | Required | Default | Description |
|------------------------|------------------|---------|---|
| VITE_API_MODE | No | mock | mock for demo mode, supabase for production |
| VITE_SUPABASE_URL | If supabase mode | - | Your Supabase project URL |
| VITE_SUPABASE_ANON_KEY | If supabase mode | - | Your Supabase anonymous key |
| VITE_AUTH_PROVIDER | No | mock | Authentication provider |
| VITE_DEMO_MODE | No | true | Enable demo features |

| | | | |
|--------------------------|----|------|----------------------------|
| VITE_AI_FEATURES_ENABLED | No | true | Enable AI-powered features |
| VITE_LOG_LEVEL | No | info | Logging verbosity |
| VITE_MOCK_DELAY | No | 100 | Simulated API latency (ms) |
| VITE_ENABLE_DEVTOOLS | No | true | Show React Query devtools |

Security Notes

IMPORTANT: Never commit these to version control:

- `.env` file (already in `.gitignore`)
- Supabase service role keys
- OAuth client secrets
- API keys for external services

Safe to commit:

- `.env.example` (template without real values)
- Configuration files without secrets

F. Dependency Installation

Step 1: Navigate to Application Directory

```
cd extracted_app
```

Step 2: Install Dependencies

macOS & Windows:

```
npm install
```

This command will:

- Read `package.json` for required packages
- Download all dependencies to `node_modules/`
- Generate `package-lock.json` (if not present)

Expected Output:

```
added 720 packages, and audited 721 packages in 45s

231 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

Step 3: Verify Installation

Check that key dependencies are installed:

```
npm list react vite @tanstack/react-query --depth=0
```

Expected Output:

```

base44-app@0.0.0
└─ @tanstack/react-query@5.90.20
└─ react@18.2.0
└─ vite@6.1.0

```

Dependency Overview

Production Dependencies:

| Package | Version | Purpose |
|-----------------------|----------|---------------------------|
| react | ^18.2.0 | UI framework |
| react-router-dom | ^7.2.0 | Client-side routing |
| @tanstack/react-query | ^5.90.20 | Data fetching & caching |
| @supabase/supabase-js | ^2.93.3 | Supabase client |
| recharts | ^2.15.1 | Charts and visualizations |
| lucide-react | ^0.475.0 | Icon library |
| tailwind-merge | ^3.0.2 | Tailwind class merging |
| zod | ^3.24.2 | Schema validation |

Development Dependencies:

| Package | Version | Purpose |
|-------------|---------|-------------------------|
| vite | ^6.1.0 | Build tool & dev server |
| vitest | ^4.0.18 | Unit testing |
| tailwindcss | ^3.4.17 | CSS framework |
| eslint | ^9.19.0 | Code linting |

G. Database & Storage Setup

Option 1: Mock Mode (No Database Required)

If using `VITE_API_MODE=mock` (default), **no database setup is required**.

The application uses an in-memory mock client that provides:

- Pre-populated sample data
- Full CRUD operations (changes persist during session only)
- Simulated API responses

[Skip to Section H: Running the Application](#)

Option 2: Supabase Mode (Persistent Database)

For persistent data storage, follow these steps to set up Supabase:

Step 1: Create Supabase Project

1. Go to <https://supabase.com>

2. Sign up or log in to your account
3. Click "**New Project**"
4. Fill in project details:
 - **Name:** vioe-local (or your preferred name)
 - **Database Password:** Generate a strong password (save this!)
 - **Region:** Select closest to your location
5. Click "**Create new project**"
6. Wait for the project to provision (1-2 minutes)

Step 2: Get API Credentials

1. In your Supabase dashboard, go to **Settings** → **API**

2. Copy the following values:

- **Project URL:** `https://xxxx.supabase.co`
- **anon/public key:** `eyJhbGciOiJIUzI1NiIsInR5cCI6...`

3. Update your `.env` file:

```
VITE_API_MODE=supabase
VITE_SUPABASE_URL=https://your-project.supabase.co
VITE_SUPABASE_ANON_KEY=your-anon-key-here
```

Step 3: Run Database Schema

1. In your Supabase dashboard, go to **SQL Editor**
2. Click "**New Query**"
3. Open the file `supabase/schema.sql` from your local repository
4. Copy the entire contents and paste into the SQL Editor
5. Click "**Run**" (or press Ctrl+Enter / Cmd+Enter)

Expected Result: The query should complete without errors, creating:

- 14 tables (vulnerabilities, teams, assets, etc.)
- Database functions
- Triggers
- Row-level security policies
- Views

Step 4: Load Sample Data (Optional but Recommended)

1. In the SQL Editor, click "**New Query**"
2. Open the file `supabase/seed.sql` from your local repository
3. Copy and paste the contents
4. Click "**Run**"

Expected Result: Sample data is inserted including:

- 4 teams
- 8 assets
- 25+ vulnerabilities
- Remediation tasks
- Compliance reports

Step 5: Verify Database Setup

Run this query in the SQL Editor to verify:

```
SELECT
    (SELECT COUNT(*) FROM teams) as teams,
    (SELECT COUNT(*) FROM assets) as assets,
    (SELECT COUNT(*) FROM vulnerabilities) as vulnerabilities;
```

Expected Output:

| teams | assets | vulnerabilities |
|-------|--------|-----------------|
| 4 | 8 | 25+ |

H. Running the Application

Step 1: Start the Development Server

From the `extracted_app` directory:

macOS:

```
npm run dev
```

Windows (PowerShell or Command Prompt):

```
npm run dev
```

Expected Output:

```
VITE v6.1.0  ready in 239 ms

→ Local:  http://localhost:5173/
→ Network: use --host to expose
→ press h + enter to show help
```

Note: If port 5173 is in use, Vite will automatically try 5174, 5175, etc.

Step 2: Access the Application

1. Open your web browser
2. Navigate to: <http://localhost:5173>
3. You should see the VIOE login page

Step 3: Log In

Demo Mode Credentials:

| Email | Password | Role |
|-------------------|----------|---------------------|
| admin@vioe.demo | demo | Admin (full access) |
| analyst@vioe.demo | demo | Analyst |
| manager@vioe.demo | demo | Manager |
| viewer@vioe.demo | demo | Viewer (read-only) |

Or use any email with password `demo` to log in with default analyst role.

Step 4: Verify Application is Running

After login, you should see the Dashboard with:

- Vulnerability summary metrics
- Severity distribution charts
- Team workload overview
- Recent activity

Available NPM Scripts

| Command | Description |
|-----------------------|--|
| npm run dev | Start development server with hot reload |
| npm run build | Build production bundle |
| npm run preview | Preview production build locally |
| npm run lint | Run ESLint code linting |
| npm run test | Run unit tests with Vitest |
| npm run test:coverage | Run tests with coverage report |

Stopping the Server

Press `Ctrl+C` in the terminal to stop the development server.

I. Feature Validation & Testing

Test 1: Dashboard & Metrics

URL: <http://localhost:5173/Dashboard>

Steps:

1. Log in with any demo credentials
2. Verify the Dashboard loads

Expected Results:

- Total vulnerabilities count displayed
- Severity breakdown (Critical, High, Medium, Low)
- Charts render correctly
- "Needs Review" and "SLA Breached" counts visible

Test 2: Vulnerability Management

URL: <http://localhost:5173/Vulnerabilities>

Steps:

1. Navigate to Vulnerabilities page
2. Click on any vulnerability row
3. View vulnerability details

Expected Results:

- List of vulnerabilities displays
- Severity badges color-coded correctly

- Filtering by severity works
- Clicking a row shows detailed view

Sample Action - Triage a Vulnerability:

1. Click "Triage" button on any vulnerability
2. Select a team from the dropdown
3. Set confidence level
4. Click "Assign"

Expected: Vulnerability updates with new assignment

Test 3: Team Performance

URL: <http://localhost:5173/Teams>

Steps:

1. Navigate to Teams page
2. Click "View Performance Insights" on any team

Expected Results:

- Team cards display with member counts
 - Performance metrics load
 - AI insights panel shows recommendations
-

Test 4: Remediation Tasks

URL: <http://localhost:5173/RemediationTasks>

Steps:

1. Navigate to Remediation Tasks
2. Click "Create Task" button
3. Fill in task details
4. Submit the form

Expected Results:

- Task list displays existing tasks
 - Create dialog opens
 - New task appears in the list after creation
 - Task status can be updated
-

Test 5: Threat Hunting

URL: <http://localhost:5173/ThreatHunting>

Steps:

1. Navigate to Threat Hunting page
2. View threat alerts
3. Click "New Hunt" to create a hunting session

Expected Results:

- Threat alerts display with severity indicators
 - Alert cards show confidence scores
 - Hunting sessions list with progress indicators
 - "Investigate" buttons functional
-

Test 6: Compliance Reports

URL: <http://localhost:5173/ComplianceReports>

Steps:

1. Navigate to Compliance Reports
2. Select a framework (SOC2, PCI-DSS, etc.)
3. View compliance score

Expected Results:

- Framework selector works
- Compliance score displayed
- Control status breakdown visible
- Findings list populated

Test 7: Incident Response

URL: <http://localhost:5173/IncidentResponse>

Steps:

1. Navigate to Incident Response
2. View incident timeline
3. Check playbook section

Expected Results:

- Incident cards display
- Status indicators work
- Timeline shows events
- Playbook steps visible

Test 8: Asset Management

URL: <http://localhost:5173/Assets>

Steps:

1. Navigate to Assets page
2. Click "Add Asset" button
3. Fill in asset details

Expected Results:

- Asset inventory displays
- Criticality levels shown
- Environment tags visible
- New asset can be created

Running Automated Tests

```
# Run all tests
npm run test

# Run tests with coverage
npm run test:coverage
```

```
# Run tests in watch mode
npm run test -- --watch
```

J. Common Errors & Troubleshooting

Error: "Port 5173 is in use"

Cause: Another application is using the default Vite port.

Solution:

Vite automatically tries the next available port. Check the terminal output for the actual URL.

Or manually specify a port:

```
npm run dev -- --port 3000
```

Error: "Module not found" or "Cannot resolve"

Cause: Dependencies not installed or corrupted.

Solution:

```
# Remove existing modules and reinstall
rm -rf node_modules package-lock.json    # macOS
# OR
Remove-Item -Recurse -Force node_modules, package-lock.json    # Windows

# Reinstall
npm install
```

Error: "VITE_SUPABASE_URL is not defined"

Cause: Environment variables not loaded.

Solution:

1. Verify `.env` file exists in `extracted_app/` directory
2. Ensure variables are prefixed with `VITE_`
3. Restart the development server after changing `.env`

Error: "Failed to fetch" or "Network Error"

Cause: API mode mismatch or Supabase not configured.

Solution:

1. Check `VITE_API_MODE` in `.env` :
 - Use `mock` for local development without Supabase
 - Use `supabase` only if Supabase is configured
2. If using Supabase, verify:
 - `VITE_SUPABASE_URL` is correct
 - `VITE_SUPABASE_ANON_KEY` is correct

- Database schema has been applied
-

Error: "Cannot find module 'react'"

Cause: Node modules not installed.

Solution:

```
cd extracted_app  
npm install
```

macOS: "Permission denied" when running npm

Solution:

```
# Fix npm permissions  
sudo chown -R $(whoami) ~/.npm  
sudo chown -R $(whoami) /usr/local/lib/node_modules
```

Or use a Node version manager like `nvm`.

Windows: "Execution Policy" Error

Cause: PowerShell script execution is restricted.

Solution:

Open PowerShell as Administrator:

```
Set-ExecutionPolicy -ExecutionPolicy RemoteSigned -Scope CurrentUser
```

Windows: "CRLF vs LF" Git Warnings

Cause: Line ending differences between Windows and Unix.

Solution:

```
git config --global core.autocrlf true
```

Blank Page After Login

Cause: JavaScript error in console.

Solution:

1. Open browser Developer Tools (F12)
 2. Check Console tab for errors
 3. Common fixes:
 - Clear browser cache
 - Hard refresh (Ctrl+Shift+R)
 - Check `.env` configuration
-

Supabase: "Row Level Security" Errors

Cause: RLS policies blocking access.

Solution:

1. Ensure you're authenticated
2. Check RLS policies in Supabase dashboard
3. For development, you can temporarily disable RLS:

```
-- CAUTION: Only for development!
ALTER TABLE vulnerabilities DISABLE ROW LEVEL SECURITY;
```

K. Optional Advanced Setup

Dockerized Setup

Assumption: Docker support is not included in the current codebase but can be added.

Create a `Dockerfile` in the `extracted_app` directory:

```
# Build stage
FROM node:20-alpine AS builder
WORKDIR /app
COPY package*.json .
RUN npm ci
COPY . .
RUN npm run build

# Production stage
FROM nginx:alpine
COPY --from=builder /app/dist /usr/share/nginx/html
COPY nginx.conf /etc/nginx/conf.d/default.conf
EXPOSE 80
CMD ["nginx", "-g", "daemon off;"]
```

Create `nginx.conf`:

```
server {
  listen 80;
  root /usr/share/nginx/html;
  index index.html;

  location / {
    try_files $uri $uri/ /index.html;
  }
}
```

Build and run:

```
docker build -t vioe:latest .
docker run -p 8080:80 vioe:latest
```

Access at: <http://localhost:8080>

Mock Scanner Integration

To simulate vulnerability scanner imports:

1. Navigate to <http://localhost:5173/ImportVulnerabilities>
2. Use the JSON import feature
3. Sample import format:

```
{  
  "scanner": "manual",  
  "findings": [  
    {  
      "cve_id": "CVE-2024-1234",  
      "title": "Test Vulnerability",  
      "severity": "high",  
      "cvss_score": 7.5,  
      "description": "Test description",  
      "affected_component": "test-component"  
    }  
  ]  
}
```

Test Data Generation

The mock client includes randomized data generators. To refresh mock data:

1. Open browser Developer Tools
2. Go to Application → Local Storage
3. Clear `vioe_user` and reload the page

Or programmatically:

```
// In browser console  
localStorage.clear();  
location.reload();
```

Running Background Workers Independently

Assumption: Background workers are not implemented in the current frontend-only architecture.

For future backend implementations, workers would be run separately:

```
# Example (not currently implemented)  
npm run worker:triage  
npm run worker:sla-checker
```

Enabling Debug Mode

For verbose logging:

1. Set in `.env` :

```
VITE_LOG_LEVEL=debug  
VITE_ENABLE_DEVTOOLS=true
```

2. Open React Query DevTools (floating button in bottom-right)
 3. View query cache and mutations
-

Production Build

To create a production-optimized build:

```
npm run build
```

Output will be in `extracted_app/dist/`. Preview locally:

```
npm run preview
```

Appendix: Quick Reference

Quick Start Commands

```
# Clone and setup
git clone <repository-url>
cd VIOE/extracted_app
cp .env.example .env
npm install
npm run dev
```

Demo Credentials

| Email | Password | Role |
|--|----------|-----------------|
| admin@vioe.demo | demo | Admin |
| analyst@vioe.demo | demo | Analyst |
| (any email) | demo | Default Analyst |

Key URLs

| Page | URL |
|-----------------|---|
| Dashboard | http://localhost:5173/Dashboard |
| Vulnerabilities | http://localhost:5173/Vulnerabilities |
| Teams | http://localhost:5173/Teams |
| Remediation | http://localhost:5173/RemediationTasks |
| Compliance | http://localhost:5173/ComplianceReports |
| Threat Hunting | http://localhost:5173/ThreatHunting |
| Settings | http://localhost:5173/Settings |

Support

For issues and feature requests:

- Repository Issues: [GitHub Issues Link]
 - Documentation: /VIOE_Documentation/ folder
-

Document End

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