



PM Assistant MVP - User Guide

Overview

The PM Assistant MVP is a **Multi-Agent Program Management system** that uses AI agents to analyze projects, create plans, assess risks, and generate documentation automatically.



Main Dashboard (<http://localhost:3002>)

What You See:

- **Quick Stats:** Overview of projects, agents, requirements, and risks
- **Multi-Agent System Status:** Shows all 5 AI agents and their current state
- **Quick Actions Panel:** Buttons to start common tasks
- **Project Status Chart:** Visual breakdown of project statuses
- **Recent Projects:** List of your latest projects

What Each Quick Action Does:

1. **New Project** → Creates a new project (redirects to projects page)
 2. **Upload Files** → Process Excel, JIRA, or text files for analysis
 3. **Generate Docs** → Create requirements & specifications
 4. **Run Multi-Agent Analysis** → Execute the complete AI pipeline
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Multi-Agent System (</agents>)

The 5 AI Agents:

1. **Input Parser Agent** (Blue) - Processes and analyzes input data
2. **Planning Agent** (Green) - Creates project plans and timelines
3. **Risk Assessment Agent** (Red) - Identifies and categorizes risks
4. **Documentation Agent** (Purple) - Generates requirements and specs
5. **Orchestrator Agent** (Orange) - Coordinates workflows between agents

How to Use the Multi-Agent System:

Step 1: Select a Project

- Use the **project dropdown** in the top-right corner
- If you don't have projects, create them first in the </projects> page
- The system needs a project context to analyze

Step 2: Run Full Analysis (Recommended)

- Click the big **"Run Full Analysis"** button
- This executes all agents in sequence:
 1. Input Parser analyzes the project

2. Planning Agent creates tasks and timeline
 3. Risk Assessment identifies potential issues
 4. Documentation Agent generates requirements
- Watch the **Workflow Pipeline** show real-time progress
 - Results appear in the **Execution Results** section below

Step 3: Run Individual Agents (Advanced)

- Click **“Run”** button on any individual agent card
- Useful for testing specific agent functions
- Watch the **Execution Log** for real-time feedback

What Happens When You Run Analysis:

- **Database Updates:** Agents create tasks, risks, requirements automatically
- **Real-time Feedback:** Execution log shows progress and results
- **Visual Pipeline:** See which agent is running and their status
- **Detailed Results:** View what each agent accomplished



Other Pages

Projects (/projects)

- View all projects and their status
- Create new projects for agent analysis
- Project data feeds the multi-agent system

Requirements (/requirements)

- View requirements generated by Documentation Agent
- Manual requirement management
- Filter and organize requirements

Tasks (/tasks)

- View tasks created by Planning Agent
- Task timeline and dependencies
- Progress tracking

Risks (/risks)

- View risks identified by Risk Assessment Agent
- Risk probability and impact analysis
- Mitigation planning

Analytics (/analytics)

- Project performance metrics
- Agent execution statistics
- Trend analysis

Upload (/upload)

- Upload Excel, JIRA exports, or text files
- Files get processed by Input Parser Agent

- Extracted data feeds other agents

Settings (/settings)

- Configure agent parameters
 - System preferences
 - Database management
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Getting Started Workflow

First Time Setup:

1. **Visit Dashboard** → Get familiar with the interface
2. **Go to Projects** → Create your first project
3. **Return to Agents** → Select your project from dropdown
4. **Run Full Analysis** → Let AI agents analyze your project
5. **Review Results** → Check generated tasks, risks, requirements
6. **Explore Other Pages** → See what the agents created

Daily Usage:

1. **Upload new files** → Process new project documents
 2. **Run targeted agents** → Update specific areas (risks, tasks, etc.)
 3. **Review analytics** → Track project progress
 4. **Refine requirements** → Adjust generated documentation
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Troubleshooting

“Please select a project first”

- Go to `/projects` page and create a project
- Return to `/agents` and select it from dropdown

“No projects available”

- Database might be empty
- Run: `npm run db:seed` to create sample projects

Agent buttons not responding






- Check browser console for errors
- Ensure project is selected
- Try refreshing the page

Workflow Pipeline stuck

- Individual agent might have failed
 - Check Execution Log for error messages
 - Try running agents individually
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Expected Results

After Running Full Analysis:

-  **3-5 Tasks created** (Project Initialization, Requirements Analysis, etc.)
-  **2-3 Risks identified** (Technical complexity, resource availability)
-  **2-3 Requirements generated** (User authentication, data security)
-  **1 Document created** (Project Requirements Document)
-  **Execution log shows all steps completed**

Where to Find Results:

- **Tasks:** Check `/tasks` page or database
 - **Risks:** Check `/risks` page
 - **Requirements:** Check `/requirements` page
 - **Documents:** Stored in database (view in settings/admin)
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Key Features

Real-time Execution

- Live progress updates during agent runs
- Visual pipeline showing current step
- Detailed execution log with timestamps

Intelligent Coordination

- Orchestrator manages agent dependencies
- Agents share context and build on each other's work
- Automatic error handling and recovery

Comprehensive Analysis

- **Planning:** Creates realistic timelines and tasks
 - **Risk Assessment:** Identifies technical, resource, and timeline risks
 - **Documentation:** Generates structured requirements
 - **Data Processing:** Handles various input formats
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Tips for Best Results

1. **Start with sample projects** from the seed data
 2. **Upload relevant documents** before running analysis
 3. **Run Full Analysis first**, then individual agents for refinement
 4. **Check all result pages** to see what was generated
 5. **Review execution logs** to understand what each agent did
 6. **Re-run agents** as projects evolve and change
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This system demonstrates how AI agents can work together to handle complex program management tasks, providing intelligent analysis and documentation generation for your projects.