User Manual

# Introduction

This manual describes how to install, configure, and use the system.

# System Overview

- .git/HEAD

- .git/config

- .git/description

- .git/index

- .git/info/exclude

- .git/logs/HEAD

- .git/logs/refs/heads/main

- .git/logs/refs/remotes/origin/HEAD

- .git/packed-refs

- .git/refs/heads/main

- .git/refs/remotes/origin/HEAD

- LICENSE

- Makefile

- backend/api\_server/main.py

- backend/data\_streamer/main.py

- backend/data\_streamer/vehicle\_pose.py

- backend/dev\_scripts/mock\_backend.py

- backend/install/\_local\_setup\_util\_ps1.py

- backend/install/\_local\_setup\_util\_sh.py

- backend/requirements.txt

- backend/ros2\_nodes/ros2\_nodes/slam\_node/CMakeLists.txt

- backend/ros2\_nodes/ros2\_nodes/slam\_node/src/slam\_logic.cpp

- docs/rest\_api.md

- docs/websocket\_api.md

- frontend/Dockerfile

- frontend/README.md

- frontend/public/robots.txt

- frontend/src/App.js

- frontend/src/App.test.js

- frontend/src/components/MapView.js

- frontend/src/components/SystemHealthPanel.js

- frontend/src/index.js

- frontend/src/reportWebVitals.js

- frontend/src/services/apiService.js

- frontend/src/services/websocketService.js

- frontend/src/setupTests.js

- rest\_api.md

- websocket\_api.md

# Installation

1. Install Python 3.x  
2. Install dependencies  
3. Run the main script

# Usage

Instructions on how to run and operate the system.

# Screenshots / Diagrams



















































