

# Cursor Tools Usage Guide

## Available MCP Tools

### 1. Filesystem MCP ■ Active

**Location:** `.cursor/mcp.json`

**Tools:**

- ``mcp_filesystem_read_file`` - Read files
- ``mcp_filesystem_write_file`` - Write files
- ``mcp_filesystem_list_directory`` - List directories
- ``mcp_filesystem_search_files`` - Search files
- ``mcp_filesystem_get_file_info`` - File metadata

**Use cases:**

- Reading configuration files on SD card
- Writing service files
- Searching for specific files
- Managing project structure

### 2. Browser MCP ■ Available

**Tools:**

- ``mcp_cursor-ide-browser_browser_navigate`` - Navigate to URL
- ``mcp_cursor-ide-browser_browser_snapshot`` - Get page snapshot
- ``mcp_cursor-ide-browser_browser_click`` - Click elements
- ``mcp_cursor-ide-browser_browser_type`` - Type text
- ``mcp_cursor-ide-browser_browser_take_screenshot`` - Screenshots

**Use cases:**

- **\*\*Test moOde Web UI\*\*** (`http://192.168.10.2`)
- **\*\*Automate Room Correction Wizard testing\*\***
- **\*\*Take screenshots of display\*\***
- **\*\*Verify Web UI functionality\*\***
- **\*\*Test network connectivity via browser\*\***

**Example workflow:**

1. Navigate to `http://192.168.10.2`
2. Take snapshot to see page state
3. Click buttons/interact with UI
4. Take screenshot to verify
5. Test Room Correction Wizard

## Why Browser MCP is Useful

**Current problem:** Manual testing of moOde Web UI

**With Browser MCP:** Automated testing

**Benefits:**

- Test Web UI without manual browser
- Automate repetitive tasks
- Take screenshots automatically
- Verify functionality programmatically

- Test Room Correction Wizard end-to-end

## How to Use

### ***Browser MCP Example***

```
# I can do this:
1. Navigate to http://192.168.10.2
2. Take snapshot to see what's on page
3. Click "System" menu
4. Take screenshot
5. Verify display is working
```

### ***Filesystem MCP Example***

```
# I can do this:
1. Read /Volumes/rootfs/etc/systemd/system/*.service
2. Write new service files directly
3. Search for specific configurations
4. List directory contents
```

## Recommendations

### ***High Priority***

1. **\*\*Use Browser MCP\*\*** to test moOde Web UI
  - Navigate to Pi IP
  - Test functionality
  - Take screenshots
  - Automate testing
2. **\*\*Use Filesystem MCP\*\*** for file operations
  - Faster than regular read/write
  - Better for SD card operations

### ***Medium Priority***

3. **\*\*Add Terminal/SSH MCP\*\*** (if available)
  - Remote Pi access
  - Command execution
  - Service management
4. **\*\*Add Database MCP\*\*** (if available)
  - moOde database access
  - Configuration queries

## Next Steps

1. **\*\*Test Browser MCP\*\*** - Navigate to moOde Web UI when Pi is ready
2. **\*\*Use Filesystem MCP\*\*** - For all file operations
3. **\*\*Document usage\*\*** - How we use these tools
4. **\*\*Automate testing\*\*** - Use Browser MCP for Web UI tests