

# 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