

Mac Admin Project Plan: [Project Name]

Planning Philosophy: Think through the design before writing code. Make decisions explicit, not implicit.

Author: [Your Name]

Date: [YYYY-MM-DD]

Version: 0.1.0

Status: Draft | Active | Complete

What & Why

What it does: [One sentence description]

Problem it solves: [What pain point does this address?]

Who uses it: [IT admins, end-users, both?]

Key benefit: [Main value this provides]

Scope

Will Do

1. [Primary feature/capability]
2. [Secondary feature/capability]
3. [Additional feature/capability]

Won't Do

1. [What you're explicitly NOT building]
2. [Features you're intentionally excluding]

Success Looks Like

- ☐ [Measurable outcome 1]
 - ☐ [Measurable outcome 2]
 - ☐ [Measurable outcome 3]
-

How It Works

Main Use Case

User scenario: [Describe the typical usage in 2-3 sentences]

Steps:

1. [What happens first]
2. [What happens next]
3. [Final outcome]

Technical Requirements**Must have:**

- [Required OS version, tool, dependency]
- [Required permission level]
- [Required integration]

Assumes:

- [Environmental assumption]
 - [User capability assumption]
-

Design**Components****[Component/Function Name]**

- Purpose: [What it does]
- Input: [What it needs]
- Output: [What it produces]

[Component/Function Name]

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Data Flow

1. [Data/trigger enters from...]
2. [Gets processed by...]
3. [Results in...]

Configuration

- **settingName** - [default] - [what it controls]
 - **settingName** - [default] - [what it controls]
-

User Interface

Type: [CLI, GUI, Self Service, silent, etc.]

What the user sees:

[Example output or interaction]

Error handling:

- [Error type] → [How user sees it]
- [Error type] → [How user sees it]

Implementation

Language/Tools: [Zsh, Swift, Python, etc.]

Key libraries/dependencies:

- [Tool/library] - [why needed]

File structure:

```
project-root/  
├── [main-script]  
├── [config/resources]  
└── README.md
```

Core logic:

1. [High-level step 1]
2. [High-level step 2]
3. [High-level step 3]

Edge cases to handle:

- [Edge case] → [solution]
- [Edge case] → [solution]

Error Handling

Fatal errors (exit):

- [Condition] → [message/action]

Warnings (continue):

- [Condition] → [message/action]

Logging:

- Location: [path]
 - What gets logged: [events to track]
-

Testing

Test in:

- ☐ Development mode: [how to test safely]
- ☐ Single test Mac
- ☐ Pilot group
- ☐ Production rollout

Validation checklist:

- ☐ [Key thing to verify]
 - ☐ [Key thing to verify]
 - ☐ [Key thing to verify]
-

Deployment

Prerequisites:

- OS: [minimum version]
- Dependencies: [what must be installed first]
- Permissions: [required privileges]

Installation:

1. [Step 1]
2. [Step 2]
3. [Step 3]

Verification:

- ☐ [How to confirm it worked]
-

Maintenance

Version scheme: [e.g., semantic versioning]

Update process: [How updates are distributed]

Deprecation: [How old features are retired]

Documentation

- ☐ README with quickstart
 - ☐ Configuration reference
 - ☐ Troubleshooting guide
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Notes

Open Questions

- [Question to resolve before implementation]

Key Decisions

Decision	Why	Date
[Choice made]	[Rationale]	[Date]

Known Limitations

1. [Limitation] - [impact/workaround]

Future Ideas

1. [Enhancement idea]
2. [Enhancement idea]

Implementation Log

Track progress and changes here

- [Date]: [What was done]
 - [Date]: [Change made and why]
-

End of Plan