

## Minishell Heredoc Checklist

This checklist outlines the implementation requirements for handling here-document (<<) redirections

in Minishell. A heredoc allows multi-line input until a delimiter is reached, optionally with variable expansion.

- [ ] Detect << token during parsing
- [ ] Store delimiter in t\_infile
- [ ] Create heredoc input handler (e.g., handle\_heredoc())
- [ ] Open pipe or temporary file to store heredoc input
- [ ] Read user input line-by-line until delimiter is matched
  - [ ] Do not expand variables if delimiter is quoted
  - [ ] Expand \$VAR if delimiter is unquoted
  - [ ] Handle edge cases like empty delimiter or EOF
- [ ] Ignore heredoc input in command history
- [ ] Handle SIGINT (Ctrl-C) during heredoc input
  - [ ] Abort heredoc cleanly without crashing
  - [ ] Restore shell prompt afterward
- [ ] Connect heredoc output to STDIN of target command
- [ ] Free heredoc input on exit or error
- [ ] Delete temp files if used, after command execution
- [ ] Ensure heredoc works in combination with pipes and logic operators

*Use this checklist to build a stable and spec-compliant heredoc implementation.*