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| **Date** | **Task** | **Description of AI Tool Usage** | **Output** | **Integration** | **Rationale** | **Challenges and Considerations** |
| 2025-09-12 | Drafting security analysis | Asked Copilot for a structured outline covering threats and countermeasures. | Outline that became docs/security-analysis.md | Yes (rewritten) | Jump-start documentation so we could focus time on encryption implementation. | Validated each statement against actual code before finalizing. |
| 2025-09-15 | Drafting privacy analysis | Prompted Copilot to propose sections for GDPR-related concerns. | Outline expanded into docs/privacy-analysis.md | Yes (expanded) | Ensure coverage of privacy risks while verifying alignment with implemented endpoints. | Required careful review for accuracy and compliance language. |
| 2025-09-18 | Drafting authentication overlay | Used Copilot to propose initial structure for public/auth.js overlay component. | Starter JS module scaffold (~80 lines) | Yes (edited) | Accelerate creation of overlay boilerplate while keeping control logic custom. | Needed manual rewrites to integrate session storage + vault API. |
| 2025-09-20 | CSS polish for login overlay | Asked Copilot for minimalist overlay styling cues. | Inspiration for account-overlay styles | Partially | Speed up visual design while ensuring final CSS remained bespoke. | Verified final CSS met accessibility contrast requirements. |
| 2025-09-22 | Innovation research draft | Used Copilot to collect bullet points for competitor analysis. | Draft text for docs/innovation-research.md | Yes (refined) | Capture market landscape quickly, then enrich with manual detail and references. | Cross-checked claims against our own research before publishing. |
| 2025-09-23 | Technical architecture outline | Prompted Copilot to suggest sections for the architecture doc. | Mermaid diagram scaffolds + section list | Yes (expanded) | Save time structuring docs/technical-architecture.md while manually documenting system specifics. | Ensured diagrams match actual code flow and updated when routes changed. |
| 2025-09-24 | Development reflection prompting | Asked Copilot for reflection question prompts. | Bullet prompts reused in docs/development-reflection.md | Yes (authored) | Provide reflection categories quickly while writing final narrative ourselves. | Ensured tone remains authentic to our experience. |
| 2025-09-26 | Quick summary outline | Requested Copilot summary of key sections to include in docs/quick-summary.md. | Section headings & bullet starters | Yes (expanded) | Keep summary concise while covering critical deliverables. | Double-checked that summary aligned with actual project status. |
| 2025-09-27 | README structure suggestions | Requested Copilot checklist of README sections. | Section headings list | Yes (expanded) | Employ AI to confirm documentation coverage while writing the final README manually. | Reviewed wording for academic honesty and accuracy. |