**Traceability Matrix**

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| Requirement Type | Requirement ID | Related Artifact/Code/Diagram | | Tests |
| 1. User Interface Requirements | 1-5 | - Windows Navigation Diagram (ICA6) | userInterfaceRequirementsTest.py | | |
|  |  | - Class Design (Summarization UI interaction methods) |  | | |
|  |  | - Functional Code for Spinner and Approval UI |  | | |
| Summarization Engine | 6-10 | - Summarization Class & Method Design (ICA5) | summarizationEngineRequirementsTest.py | | |
|  |  | - Summarization Middleware Code |  | | |
| Security & Privacy | 11-15 | - Compliance Documentation (HIPAA, GDPR) | securityAndPrivacyRequirementsTest.py | | |
|  |  | - Database Query Hardening |  | | |
| Performance | 16-20 | - Summarization Middleware with Parallel Processing | performanceRequirementsTest.py | | |
| Scalability | 21-25 | - Scalability and Future Expansion Design | scalabilityRequirementsTest.py | | |
| Maintenance & Support | 26-30 | - Error Logging & Online Help Documentation | maintenanceRequirementsTest.py | | |
| Integration | 31-35 | - Integration API Documentation | integrationRequirementsTest.py | | |
|  |  | - API Routes from Middleware |  | | |
| Compliance & Standards | 36-40 | - Security Features Adhering to OWASP |  | | |
| Training & Documentation | 41-45 | - Training & FAQs in README | No direct test code | | |
| Backup & Recovery | 46-50 | - Database Backup Scripts | Recovery process in maintenanceTests.py | | |