Technical Requirements

TR ID	Requirement Summary	SRS Category
TR-01	99.9% uptime	Non-Functional (Availability)
TR-02	Hosting region	Deployment Constraint
TR-03	Environment separation	Architectural Constraint
TR-04	Three-tier architecture	Architectural Constraint
TR-05	Load balancing & scaling	Non-Functional (Performance)
TR-06	Blockchain validator nodes	Architectural Constraint
TR-07	ASP.NET Core platform	Technology Constraint
TR-08	No Traditional CMS	External Interface Requirement
TR-09	Development IDE	Technological Constraint
TR-10	Admin Portal	Non-Functional (Maintainability)
TR-11	CLI tools	Functional Requirement
TR-12	Monitoring dashboards	Non-Functional (Maintainability)
TR-13	Payment Processing	Functional Requirement
TR-14	Future Payment Integration	Deployment Constraint
TR-15	HL7/FHIR compliance	External Interface Requirement
TR-16	API Response Time	Technological Constraint
TR-17	Integration Testing	Deployment Constraint
TR-18	API backward compatibility	Non-Functional (Maintainability)
TR-19	Backend Languages	Technological Constraint
TR-20	Frontend Languages	Technological Constraint
TR-21	Smart Contract Language	Technological Constraint
TR-22	Database Query Language	Technological Constraint
TR-23	AES-256 encryption	Non-Functional (Security)
TR-24	TLS 1.3	Non-Functional (Security)
TR-25	Access Controls	Non-Functional (Security)
TR-26	Audit Logging	Non-Functional (History Checking)
TR-27	Backup & recovery	Non-Functional (Reliability)
TR-32	Data migration validation	Data Requirement

TR-33	Legacy System Integration	Architectural Constraint
TR-34	Migration Validation	Technological Constraint
TR-35	Rollback Plan	Technological Constraint
TR-36	Supported Browsers	Technological Constraint
TR-37	Operating System Compatibility	Architectural Constraint
TR-38	Mobile Responsive Design	Non-Functional (UI/UX)
TR-39	Cross-Browser Testing	Technological Constraint
TR-40	Page load performance	Non-Functional (Performance)
TR-41	Subsequent Interactions	Non-Functional (Human Computer Interactions)
TR-42	Concurrent Users	Functional (Usage)
TR-43	Daily Transaction Volume	Functional (Usage)
TR-44	Blockchain Confirmation Time	Technological Constraint
TR-45	Database Query Performance	Technological Constraint