***SDLC Analysis on Oracle Health***

***Requirements Document (Updated)***

Version 1.0 (Initial Version)

1. Core Functionality  
   - Basic EHR data storage and retrieval  
   - Patient information management  
   - Simple prescription handling  
   - Basic appointment scheduling
2. Security Features  
   - Standard user authentication  
   - Basic data encryption  
   - Initial HIPAA compliance measures  
   - Simple access control
3. User Interface  
   - Basic login screen  
   - Standard data entry forms  
   - Simple search functionality  
   - Basic patient record viewing
4. Data Management  
   - Local database storage  
   - Basic backup system  
   - Simple data import/export  
   - Basic report generation
5. Integration  
   - Basic lab system connection  
   - Simple pharmacy interface  
   - Primary care provider access

INITIAL CONSTRAINTS  
- Budget limitations  
- Basic security protocols  
- Minimal third-party integration  
- Standard performance requirements  
  
TIMELINE  
- Development: 6 months  
- Testing: 2 months  
- Implementation: 1 month

Version 2.0

1. Advanced Core Functionality  
   - Real-time EHR management   
   - Intelligent prescription management  
   - Advanced scheduling system  
   - Telemedicine integration  
   - Emergency care protocols
2. Enhanced Security Features  
   - Multi-factor authentication  
   - End-to-end encryption  
   - Advanced HIPAA compliance  
   - Role-based access control  
   - Security audit trails  
   - Threat detection systems
3. Advanced User Interface  
   - Customizable dashboards  
   - Mobile responsiveness  
   - Voice command capability  
   - Advanced search with filters  
   - Interactive data visualization  
   - Smart forms with auto-population
4. Comprehensive Data Management  
   - Cloud-based storage  
   - Automated backup systems  
   - Advanced analytics  
   - Custom report generation
5. Extended Integration  
   - Full laboratory integration  
   - Pharmacy network connection  
   - Insurance provider interface  
   - Emergency services link  
   - External healthcare systems  
   - Medical device integration

REGULATORY COMPLIANCE  
- Updated HIPAA requirements  
- HL7 standards  
- Regional healthcare regulations  
- International data protection  
- Industry best practices

PERFORMANCE REQUIREMENTS  
- 99.99% uptime  
- Sub-second response time  
- Scalability provisions  
- Load balancing  
- Disaster recovery  
- Performance monitoring

STAKEHOLDERS  
- Healthcare providers  
- IT department  
- Administrative staff  
- Patients  
- Insurance companies  
- Regulatory bodies  
- External healthcare partners

TIMELINE  
- Development: 12 months  
- Testing: 4 months  
- Phased Implementation: 6 months  
- Post-implementation support: Ongoing