

Quality Metrics Guide

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1 Quality Metrics & Targets

1.1 Current Sprint Metrics

Metric	Target	Current	Trend
Response Time	<500ms	[Value]	↑/↓
Error Rate	<1%	[Value]	↑/↓
Test Coverage	>80%	[Value]	↑/↓

1.2 Performance Objectives

```
@startuml
rectangle "Sprint Goals" {
    rectangle "Current" {
        text "Users: [number]/hour"
        text "Response: [time]ms"
    }
    rectangle "Target" {
        text "Users: [number]/hour"
    }
}
```

```
text "Response: [time]ms"
}
}
@enduml
```

1.3 Performance Requirements

```
@startuml
rectangle "Response Time" {
    rectangle "UI Operations" {
        text "Target: <500ms"
        text "Peak: <1s"
    }
    rectangle "API Calls" {
        text "Target: <200ms"
        text "Peak: <500ms"
    }
    rectangle "Background Jobs" {
        text "Target: <5min"
        text "Peak: <15min"
    }
}
}
@enduml
```

1.4 Scalability Requirements

```
@startuml
skinparam rectangle {
    BackgroundColor<<Target>>
    LightGreen
    BackgroundColor<<Current>>
    LightBlue
}
```

```

}
rectangle "Load Capacity" {
    rectangle "Current Load"
    <<Current>> {
        text "Users: 1000/hour"
        text "Transactions: 5000/hour"
    }
    rectangle "Target Load" <<Target>>
    {
        text "Users: 10000/hour"
        text "Transactions: 50000/hour"
    }
}
@enduml

```

```

rectangle "MTTR" {
    text "Mean Time To Recover"
    text "Target: <30 minutes"
}
@enduml

```

1.7 Monitoring & Metrics

- Key Performance Indicators
- Health Checks
- Alert Thresholds

1.5 Security Requirements

- **Authentication:**
 - Methods: [List methods]
 - Protocols: [List protocols]
 - Standards: [List standards]
- **Authorization:**
 - Access Control Model
 - Role Definitions
 - Permission Matrix
- **Data Protection:**
 - Encryption Standards
 - Key Management
 - Data Classification

1.6 Reliability Requirements

```

@startuml
rectangle "System Reliability" {
    rectangle "Availability" {
        text "Target: 99.9%"
        text "Allowed Downtime: 8.76 hours/year"
    }
    rectangle "MTBF" {
        text "Mean Time Between Failures"
        text "Target: >1000 hours"
    }
}

```