

Functional Requirements

Emmanuel BRUNO
Université de Toulon, LIS UMR CNRS 7020
emmanuel.bruno@univ-tln.fr

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1 Template Structure

1.1 1. Requirement Definition

- ID and title
- Description
- Priority and source
- Dependencies

1.2 2. Behavioral Specifications

- Detailed behaviors
- Constraints
- Exception cases

1.3 3. Traceability

- Related user stories
- Implementation references
- Test cases

2 Functional Requirement Structure

2.1 Basic Format

FR-[XXX]: [Requirement Title]

Description: [Brief description of the requirement]

Details: - [Specific behavior 1] - [Specific behavior 2] - [Specific behavior n]

Priority: [Must have | Should have | Could have | Won't have]

Source: [Source reference]

Dependent requirements: [List of related requirements]

Verification method: [Testing approach]

2.2 Example

FR-103: User Authentication

Description: The system must authenticate users before granting access to protected resources.

Details: - The system shall provide a login interface requiring username and password - The system shall validate credentials against the user database - The system shall enforce password complexity requirements - The system shall lock accounts after 5 failed login attempts - The system shall provide a password recovery mechanism

Priority: Must have

Source: Security policy SP-42

Dependent requirements: FR-101, FR-102

Verification method: Security testing

Implementing Stories: - @story:E01-F01-US01 - New customer account creation - @story:E01-F01-US02 - Password reset flow

3 Traceability Tags

Use these tags to establish requirement relationships: - @source: Source document/stakeholder - @implements: Design document reference - @depends-on: Dependencies on other requirements - @extends: Requirements this one extends - @related-to: Related requirements

4 Validation Checklist

Before finalizing a functional requirement:

- ☐ Unique identifier assigned
- ☐ Clear, unambiguous description
- ☐ Specific, measurable behaviors listed
- ☐ Priority level defined
- ☐ Dependencies identified
- ☐ Verification method specified
- ☐ Traceability links established

5 User Story Mapping

5.1 Story References

Implemented By: - E01-F01-US01: Account Creation Story - E01-F01-US02: Password Reset Story

6 Cross-Reference Matrix

Requirement ID	User Stories	NFRs
FR-103	E01-F01-US01, E01-F01-US02	NFR-201, NFR-202