

Product Specification and Requirement Document Template

Purpose

This document is designed to clearly define the project requirements and features. It is an iterative process, sometimes it may be possible to skip or reduce certain steps, but please give a response as to why. Sometimes you may only go through the process once as part of a thesis, however, always remember that a feature doesn't become obsolete with the end of your thesis, you are doing really work which will continue to be a part of the project for a long time.

Iteration 1: Initial Draft

Start by filling out the document based on initial ideas. This could be based on literature, existing interviews, or other considerations. Pay attention to tracking the sources for each claim, even if something is just your personal intuition, note it down with that exact reason.

Iteration 2: Validate Mockup Draft

After creating a first mockup based on requirements, validate it through interviews or literature research. Then, update the document with new findings.

Iteration 3: Validate Software Implementation

After implementing the requirements as software, results from final interviews and other considerations should be added to the document.

Part 1: Customer Requirements

This section is the beginning of understanding what the user needs and help to later specify app features.

Persona

This section is the beginning of understanding what the user needs and help to later specify app features. Don't be shy to ask based on your own knowledge and take risk to later needs to answer your questions.

Competitors

Identify competitors and their strengths and weaknesses. This will help you to understand the market and your own position.

User needs

This section is the beginning of understanding what the user needs and help to later specify app features. Don't be shy to ask based on your own knowledge and take risk to later needs to answer your questions.

Stakeholder Requirements

This section is the beginning of understanding what the user needs and help to later specify app features. Don't be shy to ask based on your own knowledge and take risk to later needs to answer your questions.

Legend: Stakeholder Requirement ID: Specify a unique number (example SR2), Stakeholder: Specify the stakeholder (example Beneficiary, Medical Professional, Coach), Requirement description (example The beneficiary app must provide an overview of the daily steps), Source: Specify from where you derived this requirement (example User Need 1, Literature including citation with page, User Interface Guideline, etc)

Part 2: Requirement Specification Document

In this section, the high level stakeholder requirements should be translated into detailed software features, so that they can be implemented in a next step. Also, possible risks are investigated.

Software Requirements

Template: The <product> must <ensure X or provide Y>

Source: Stakeholder Requirements (User Interface Guideline, etc), Requirement description (example The beneficiary app must provide a blue progress bar that shows the number of daily steps as a percentage of the daily goal and must update automatically for new values), Detailed Specification: Here you can add an optional detailed specification of the exact implementation (example font size, color, location, technical specifications), Related Risk IDs: Specify any related risk IDs, Is this a Risk Control Measure: Yes or No depending on whether the requirements is controlling for risks

Stakeholder Requirements

Source: Stakeholder Requirements (User Interface Guideline, etc), Requirement description (example The beneficiary app must provide a blue progress bar that shows the number of daily steps as a percentage of the daily goal and must update automatically for new values), Detailed Specification: Here you can add an optional detailed specification of the exact implementation (example font size, color, location, technical specifications), Related Risk IDs: Specify any related risk IDs, Is this a Risk Control Measure: Yes or No depending on whether the requirements is controlling for risks

Stakeholder Requirements

Source: Stakeholder Requirements (User Interface Guideline, etc), Requirement description (example The beneficiary app must provide a blue progress bar that shows the number of daily steps as a percentage of the daily goal and must update automatically for new values), Detailed Specification: Here you can add an optional detailed specification of the exact implementation (example font size, color, location, technical specifications), Related Risk IDs: Specify any related risk IDs, Is this a Risk Control Measure: Yes or No depending on whether the requirements is controlling for risks

Stakeholder Requirements

Source: Stakeholder Requirements (User Interface Guideline, etc), Requirement description (example The beneficiary app must provide a blue progress bar that shows the number of daily steps as a percentage of the daily goal and must update automatically for new values), Detailed Specification: Here you can add an optional detailed specification of the exact implementation (example font size, color, location, technical specifications), Related Risk IDs: Specify any related risk IDs, Is this a Risk Control Measure: Yes or No depending on whether the requirements is controlling for risks

Part 3: Description of Prototype

Based on the previous findings, this section should provide a summary of the prototype you plan to implement or build based on the **Stakeholder** and the **Software Requirements**.

Goal of Prototype

Describe the goal that you want to achieve with the prototype.

Scope of Delivery

What is included in the final delivery of the project? How will results be documented?

Target Group

Describe the target group with who the prototype will be tested in a few words based on the persona.

Evaluation Method

Describe which method can be used to measure the success (example questionnaire, interviews, etc).

Connection to other areas

With which projects is your project connected?

Visualizations of the Prototype

Based on the previous section and the software requirements, create visualizations of the prototype such as Mockups, Storymaps, or the User Requirements.