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# Product requirements specification:

## Introduction

Describe your product and project

## Purpose

E.g. what it needs to do

Where it needs to be used

## Context

E.g. stand-alone product or part of a larger whole, a replacement for an existing product, a totally new product

## Assumptions

E.g. hardware or software to be used, user experience or training)

## Constraints

E.g. timescale

Interoperability with existing products

Design tools to be used

# Functional Requirements

## Main functional requirements

A set of clearly defined, unambiguous needs of the product, with priorities

## Target user profiles

E.g. end user tasks

End user knowledge and level of experience

Client goals

# Non-functional Requirements

## Usability

E.g. easy to learn, clear operating procedures, appropriate for the level of knowledge of each target user profile

## Performance

Stated in an easily measurable form (e.g. capacity, availability, response times, environmental issues)

## Safety

To prevent possible loss, damage or harm

Specific safety standards to be adhered to

## Security

Standards compliance

Privacy issues

Certification

## Maintainability

Define consumables

Regular calibration activities

Updates

Bug fixes

Error recovery

## Interfaces

Hardware

Software

Communications

User

## Appendices

Glossary of terms

Diagrams describing processing

A numbered list of TBD (to be determined) items with clear responsibilities and timescales defined