

200597 M2|L2 Product Requirements Document (PRD) Worksheet

Introduction: Use this worksheet to develop a PRD for the solar water heating scenario.

This worksheet contains:

1. PRD Template Overview
2. PRD Example
3. Blank PRD Template

PRD Template Overview

PRD Entry	Details
Product Users Note: Buyer and User personas often describe key buyers or users	<ul style="list-style-type: none">• Identify the primary users and buyers of the product• Define the market need or gap• Describe how end users will use this product
Functional Requirements Note: Functional requirements are often described through User Stories or Use Cases	<ul style="list-style-type: none">• Describe the specific interaction between users and the product• Identify specific features and functionality the end user can access
Non-Functional Requirements	<ul style="list-style-type: none">• Describe non-functional requirements the product must meet• List all product design constraints
Product Support	<ul style="list-style-type: none">• List what needs to accompany the product that is not related to specific product operations• Examples may include documentation, accessories, installation instructions, maintenance tools, or replacement parts.

PRD Example:

PRD Entry	Details
Product Users Note: Buyer and User personas often describe key buyers or users	<ul style="list-style-type: none">Marketing will target commercial users to include automotive, aerospace, defense, educational, and government buyers and users
Functional Requirements Note: Functional requirements are often described through User Stories or Use Cases	<ul style="list-style-type: none">Color touchscreenMultiple connectivity optionsHigh print volumeRemote controllerApp to track settings, manage paper and toner levels, order materials, and track use by user
Non-Functional Requirements	<ul style="list-style-type: none">Automated bed levelingAutomated fault identification and corrective actionsSecure printing
Product Support	<ul style="list-style-type: none">24/7 help desk will be establishedTroubleshooting and Frequently Asked Questions (FAQ) are provided on the AppApp links customers directly to support

Blank PRD Template

PRD Entry	Solar Water Heating Scenario
Product Users Note: Buyer and User personas often describe key buyers or users	The primary users of the solar water heating system include: <ul style="list-style-type: none">Residential homeowners seeking to reduce energy costs and carbon footprint.Commercial businesses aiming to comply with environmental regulations and cut operating costs.Government facilities looking to meet energy efficiency mandates and reduce overall carbon emissions.
Functional Requirements Note: Functional requirements are often described through User Stories or Use Cases	User Stories: <ul style="list-style-type: none">As a residential homeowner, I want to be able to monitor the efficiency of the solar water heating system in real-time through a mobile app, so I can track energy savings and identify any system issues promptly.As a commercial business owner, I need the solar water heating system to adjust its operations automatically based on changing environmental conditions, ensuring optimal performance and energy efficiency at all times.As a government facility manager, I require access to a secure online portal where I can view detailed diagnostic reports

	and performance metrics of the solar water heating systems installed in various facilities under my jurisdiction.
Non-Functional Requirements	<ul style="list-style-type: none"> • Performance: The system should respond to user inputs and environmental changes promptly, with minimal latency. • Reliability: The system should operate reliably under various environmental conditions and usage scenarios, with minimal downtime or system failures. • Security: User data and system communications should be encrypted and protected against unauthorized access or tampering. • Scalability: The system architecture should support scalability to accommodate future upgrades, expansions, and increased user demand. • Usability: The mobile app and online portal should be intuitive and easy to use for users of varying technical backgrounds, with clear instructions and user-friendly interfaces.
Product Support	<p>SRU will provide comprehensive product support to ensure customer satisfaction and system performance:</p> <ul style="list-style-type: none"> • Customer support hotline available 24/7 for troubleshooting assistance. • Online knowledge base with FAQs, troubleshooting guides, and video tutorials. • Regular software updates and maintenance to address bugs, enhance features, and improve system performance. • Warranty coverage for system components and installations, with options for extended maintenance contracts for ongoing support.