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**

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| --- | --- |
| PRD Entry | Details |
| Product Users  Note: Buyer and User personas often describe key buyers or users | * 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 | * Describe the specific interaction between users and the product * Identify specific features and functionality the end user can access |
| Non-Functional Requirements | * Describe non-functional requirements the product must meet * List all product design constraints |
| Product Support | * 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:**

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| --- | --- |
| PRD Entry | Details |
| Product Users  Note: Buyer and User personas often describe key buyers or users | * 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 | * Color touchscreen * Multiple connectivity options * High print volume * Remote controller * App to track settings, manage paper and toner levels, order materials, and track use by user |
| Non-Functional Requirements | * Automated bed leveling * Automated fault identification and corrective actions * Secure printing |
| Product Support | * 24/7 help desk will be established * Troubleshooting and Frequently Asked Questions (FAQ) are provided on the App * App links customers directly to support |

**Blank PRD Template**

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| --- | --- |
| 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:   * 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:   * 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 | * 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 | SRU will provide comprehensive product support to ensure customer satisfaction and system performance:   * 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. |