**Business Requirements Document (BRD): Basic Calculator Web App**

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**1. Introduction**

This Business Requirements Document (BRD) outlines the high-level business needs and objectives for the development of a basic web-based calculator application. The primary purpose of this initiative is to provide a readily accessible and efficient tool for users to perform fundamental arithmetic calculations directly within their web browser.

**2. Business Objectives**

The key business objectives for this project are:

* **Enhance User Productivity:** To offer a quick and reliable digital tool for everyday numerical computations, thereby improving efficiency for users who require simple arithmetic on demand.
* **Improve User Experience:** To provide a straightforward, intuitive, and error-resistant interface for basic calculations, minimizing user frustration.
* **Establish Foundational Capability:** To build a robust base for future enhancements, potentially including more complex mathematical functions, unit conversions, or historical logging.

**3. Scope**

**3.1 In-Scope Functionality**

The initial release of the Basic Calculator Web App will include the following core capabilities:

* **Numerical Input:** Ability to accept two distinct numerical values from the user.
* **Basic Arithmetic Operations:** Support for the four fundamental arithmetic operations: addition, subtraction, multiplication, and division.
* **Result Display:** Clear and immediate presentation of the computed result.
* **Fundamental Error Notification:** Mechanisms to inform the user about invalid operations (e.g., division by zero) or non-numerical input.

**3.2 Out-of-Scope Functionality (for this phase)**

The following functionalities are **not** part of this initial phase and will be considered for future iterations:

* Advanced mathematical functions (e.g., trigonometry, logarithms, powers).
* Unit conversions (e.g., currency, length, weight).
* Operation history or memory functions.
* Graphing capabilities.
* Integration with external data sources.
* User accounts or personalization.

**4. Key Stakeholders**

The primary stakeholders for this project include:

* **Product Owner:** Defines requirements, prioritizes features, and ensures business value.
* **Development Team:** Responsible for building and deploying the application.
* **Quality Assurance Team:** Ensures the application meets specified requirements and is free of defects.
* **End Users:** Individuals who will utilize the calculator for their daily arithmetic needs.

**5. Success Metrics**

The success of this project will be measured by the following criteria:

* **Functionality:** All specified in-scope features are implemented and operate correctly according to the defined requirements.
* **Reliability:** The application performs calculations accurately and consistently without crashes or unexpected behavior.
* **User Adoption (Future):** While not directly measured in this initial phase, the design should encourage ease of use that supports future high adoption rates.
* **Minimal Defects:** The application is released with a low number of critical or major defects.