

Gap Analysis

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History

| Date | Modified By | Version |
|------------|-------------|---------|
| 05-03-2025 | Gourav Kar | 1.0 |

Reference

| Reference ID | Reference | Comment | Comment |
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Prerequisite

- Understanding User Needs:** Gather input from users or stakeholders to identify what functionalities are expected or required from each calculator.
- Defining the Categories:** Clearly specify the types of calculations or features under consideration (e.g., basic math, trigonometry, interest calculations).
- Assessing Current State:** Conduct a review of the existing functionalities to determine what is already implemented and any limitations.
- Setting Objectives (Desired State):** Identify what improvements or features are desired in the calculators for better user experience or performance.
- Identifying Gaps:** Compare the current state with the desired state to pinpoint what’s missing or needs improvement.
- Action Planning:** Brainstorm and list the steps needed to bridge those gaps effectively

Gap Analysis Table

| | Feature | Current State | Desired State | Gap | Action Plan |
|---|---|---|---|---|---|
| 1 | Basic Calculator (Addition Division Multiplication Subtraction) | Supports basic addition of two numbers, works with integers, limited to manual input, | Support for adding multiple numbers, decimal inputs, improved error handling. | No multi-number support, lacks decimal compatibility, | Implement multi-number addition, introduce decimal support, |

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|---|---|--|--|---|---|
| | | no error handling. | | no error handling. | enhance error handling. |
| 2 | Scientific Calculator (Trigonometry Factorials & Combinatorics) | Supports basic trig functions (sin, cos, tan). Supports basic factorials and combinations, struggles with large numbers. | Support for inverse trig functions. Handle large values. Missing inverse functions, No large factorial handling. | Missing inverse functions, No large factorial handling. | Implement inverse trig functions, Optimize factorial computation. |
| 3 | Financial Calculations (Interest) | Supports compound and simple interest, manual input provided. | Value should be taken from the user. | Information is not taken from the user. | Implement the user input section |

Overall Missing Features

| ITEM | Description |
|------|-------------------------------------|
| 1 | Error Handling Across All Functions |
| 2 | Multi-Unit Conversion |
| 3 | Export Results (PDF/CSV) |