**\*UseCase specification of performing addition:**

|  |  |
| --- | --- |
| UseCase name: Performs addition.. | |
| Brief description: The system allows users to perform addition with 2 variables. | |
| Main actor: User. | |
| Supporting Actor: None. | |
| Prerequisites: The system must calculate and give accurate results. | |
| Post-prerequisite: The user must enter two variables correctly. | |
| **Main line of events::** | |
| Actor | System |
| 1.Users select the "+" character in the main interface. | 2.The system displays the addition calculation interface. |
| 3.User enters 2 variables. |  |
| 4.Users select “Calculator”. | 5.Variable checking and calculation system. |
|  | 6.The system displays the results. |
| **Substream of events:** | |
|  | 5.1.Error reporting system. |
| 5.1.2.User selects confirmation. | 5.1.3.The system returns to step 2. |

**\*UseCase specification of subtraction implementation:**

|  |  |
| --- | --- |
| UseCase name: Performs subtraction. | |
| Brief description: The system allows users to perform subtraction with 2 variables. | |
| Main actor: User. | |
| Supporting Actor: None. | |
| Prerequisites: The system must calculate and give accurate results.. | |
| Post-prerequisite: The user must enter two variables correctly. | |
| Main line of events: | |
| Actor | System |
| 1.User selects the character “-” in the main interface. | 2.The system displays the 2-variable signal interface. |
| 3.User enters 2 variables. |  |
| 4. Users select “Calculator”. | 5. Variable checking and calculation system. |
|  | 6. The system displays the results. |
| **Substream of events:** | |
|  | 5.1.Error reporting system. |
| 5.1.2.User selects confirmation.. | 5.1.3.The system returns to step 2. |

**\*UseCase specification of multiplication:**

|  |  |
| --- | --- |
| UseCase name: Perform multiplication.. | |
| Brief description: The system allows users to calculate the product of 2 variables. | |
| Main actor: User. | |
| Supporting Actor: None. | |
| **Prerequisites:** The system must calculate and give accurate results.. | |
| **Post-prerequisite:** The user must enter two variables correctly. | |
| Main line of events: | |
| Actor | System |
| 1.User selects the character “x” in the main interface. | 2.The system displays the multiplication calculation interface. |
| 3.User enters 2 variables. |  |
| 4.Users select “Calculator” | 5.Variable checking and calculation system.. |
|  | 6.The system displays the results. |
| **Substream of events:** | |
|  | 5.1.Error reporting system. |
| 5.1.2.User selects confirmation. | 5.1.3.The system returns to step 2. |

**\*UseCase specification of division operation:**

|  |  |
| --- | --- |
| UseCase name: Performs addition. | |
| Brief description: The system allows users to perform division of 2 variables. | |
| Main actor: User. | |
| Supporting Actor: None. | |
| Prerequisites: The system must calculate and give accurate results. | |
| Post-prerequisite: The user must enter two variables correctly.. | |
| Main line of events: | |
| Actor | System |
| 1.User selects the character “/” in the main interface. | 2.The system displays the division calculation interface |
| 3.User enters 2 variables. |  |
| 4.Users select “Calculator”. | 5.Variable checking and calculation system.. |
|  | 6.The system displays the results. |
| **Substream of events:** | |
|  | 5.1.Error reporting system. |
| 5.1.2.User selects confirmation. | 5.1.3.The system returns to step 2.. |

**\*UseCase specification of performing remainder division:**

|  |  |
| --- | --- |
| UseCase name: Performs division and remainder calculation | |
| Brief description: The system allows users to view the remainder of division. | |
| Main actor: User. | |
| Supporting Actor: None. | |
| **Prerequisites:** The system must calculate and give accurate results.. | |
| **Post-prerequisites**: The user must enter the two variables correctly, the system must complete the division calculation first. | |
| Main line of events: | |
| Actor | System |
| 1.Users select the character “%” in the main interface.. | 2. The system displays the interface for calculating division and remainder. |
| 3.User enters 2 variables. |  |
| 4.Users select “Calculator”. | 5.Variable checking and calculation system. |
|  | 6.The system displays results and balances. |
| **Substream of events:** | |
|  | 5.1.Error reporting system. |
|  | 5.1.2.The system displays return confirmation. |
| 5.1.3.User selects confirmation. | 5.1.4.The system returns to step 2. |

**\*UseCase specification of squaring a number**

|  |  |
| --- | --- |
| UseCase name: Performs squaring | |
| Brief description: The system allows users to calculate the square of any number.. | |
| Main actor: User. | |
| Supporting Actor: None.. | |
| **Prerequisites**: The system must calculate and give accurate results.. | |
| **Post-prerequisite**: The user must enter the variable to be squared.. | |
| Main line of events: | |
| Actor | System |
| 1.Users select the character “^” in the main interface | 2.The system displays the square calculation interface. |
| 3.User enters variable. |  |
| 4.Users select “Calculator” | 5.Variable checking and calculation system. |
|  | 6.The system displays the results. |
| **Substream of events:** | |
|  | 5.1.Error reporting system. |
|  | 5.1.2.The system displays return confirmation.. |
| 5.1.3.User selects confirmation. | 5.1.4.The system returns to step 2. |

**\*UseCase specification of performing square root of a number:**

|  |  |
| --- | --- |
| UseCase name: Performs square root operation.. | |
| Brief description: The system allows users to calculate the square root of any number. | |
| Main actor: User. | |
| Supporting Actor: None.. | |
| **Prerequisites**: The system must calculate and give accurate results.. | |
| **Post-prerequisite**: The user must enter the variable for which the square root needs to be calculated. | |
| Main line of events: | |
| Actor | System |
| 1.User selects the character “√(2&x)” in the main interface. | 2.The system displays the square root calculation interface. |
| 3.User enters variable. |  |
| 4. .Users select “Calculator”. | 5.Variable checking and calculation system. |
|  | 6.The system displays the results. |
| **Substream of events:** | |
|  | 5.1.Error reporting system. |
|  | 5.1.2.The system displays return confirmation. |
| 5.1.3. .User selects confirmation. | 5.1.4. The system returns to step 2. |

**\*UseCase specification of delete calculation:**

|  |  |
| --- | --- |
| UseCase name: Delete calculation | |
| Brief description: The system allows users to delete calculations. | |
| Main actor: User. | |
| Supporting Actor: None.. | |
| **Prerequisites**:The system allows users to delete calculations | |
| **Post-prerequisites**: | |
| Main line of events: | |
| Actor | System |
| 1User selects “delete” | 2. The system displays the confirmation interface to delete the calculation. |
| 3. User selects "confirm" | 4. .System deletes requested calculation |
|  | 5 The system displays the calculation input interface.. |
| **Substream of events:** | |
| 3.1. .User selects “back” | 3.1.2. System returns original calculation. |

**\*Đặc tả UseCase của xóa tất cả kí tự có trong phép tính:**

|  |  |
| --- | --- |
| Tên UseCase: Xóa phép tính | |
| Mô tả sơ lược:Hệ thống cho phép người dùng xóa tất cả kí tự trong phép tính. | |
| Actor chính:Người dùng. | |
| Actor phụ:Không có. | |
| **Điều kiện tiên quyết:**Hệ thống cho phép người dùng xóa tất cả kí tự trong phép tính | |
| **Điều kiện hậu tiên quyết:** | |
| **Dòng sự kiện chính:** | |
| Actor | System |
| 1.Người dùng chọn “Remove”. | 2.Hệ thống hiển thị giao diện xác nhận xóa tất cả kí tự. |
| 3.Người dùng chọn”xác nhận” | 4.Hệ thống xóa tất cả kí tự |
|  | 5.Hệ thống hiển thị giao diện nhập phép tính. |
| **Dòng sự kiện phụ:** | |
| 3.1.Người dùng chọn “quay lại” | 3.1.2.Hệ thống trả lại phép tính ban đầu. |

**\*UseCase specification of deleting all characters in the calculation::**

|  |  |
| --- | --- |
| UseCase name: Delete calculation | |
| Brief description: The system allows users to delete all characters in the calculation. | |
| Main actor: User. | |
| Supporting Actor: None. | |
| **Prerequisites**: The system allows users to delete all characters in the calculation | |
| Post-prerequisites: | |
| **Main line of events:** | |
| Actor | System |
| 1. User selects “->”. | 2. Character deletion system |

**\*UseCase specification of deleting characters from right to left:**

|  |  |
| --- | --- |
| UseCase name: Delete calculation | |
| Brief description: The system allows users to delete characters from right to left. | |
| Main actor: User. | |
| Supporting Actor: None. | |
| **Prerequisites**: The system allows users to delete characters from right to left. | |
| **Post-prerequisites:** | |
| Main line of events: | |
| Actor | System |
| 1. .User presses “<-”. | 2. Character deletion system |

**\*UseCase specification of return**

|  |  |
| --- | --- |
| Tên UseCase: Return. | |
| Brief description: The system allows users to return to the main interface to select calculations. | |
| Main actor: User.. | |
| Supporting Actor: None. | |
| **Prerequisites**: The system allows users to return to the main interface to select calculations. | |
| **Post-requisites**:The user must be in the calculation interface. | |
| Main line of events: | |
| Actor | System |
| 1. User selects “return”. | 2.The system displays the return confirmation interface.. |
| 3. User selects "confirm". | 4. System displays main interface.. |
| **Substream of events::** | |
| 3.1.User selects “back” | 3.1.2.The system returns the original calculation interface. |

**\*Form on request.**

|  |  |
| --- | --- |
| **ID:User01** | |
| As a user, I would like to have the functionality to perform addition operations of two variables. | |
| **Actor:**User. | Condition:  -If you enter incorrect data (not a number), the system will report an error and confirm return.  -If entered correctly, the corresponding addition calculation answer will appear.  -After completing the calculation, the system will have a delete button to perform a new calculation. |
| **User’s Story:** When performing addition calculations to calculate everyday problems, users will use this function |

|  |  |
| --- | --- |
| **ID:User02** | |
| As a user, I would like to have the ability to perform subtraction operations on two variables. | |
| **Actor:**User. | Condition:  -If you enter incorrect data (not a number), the system will report an error and confirm return.  -If entered correctly, the corresponding subtraction calculation answer will appear.  -After completing the calculation, the system will have a delete button to perform a new calculation. |
| **User’s Story:** When performing subtraction calculations to calculate everyday problems, users will use this function |

|  |  |
| --- | --- |
| **ID:User03** | |
| As a user, I would like to have the functionality to perform multiplication operations on two variables. | |
| **Actor:**User. | Condition:  -If you enter incorrect data (not a number), the system will report an error and confirm return.  -If entered correctly, the corresponding multiplication calculation answer will be displayed.  -After completing the calculation, the system will have a delete button to perform a new calculation. |
| **User’s Story:** When performing multiplication calculations to calculate everyday problems, users will use this function |

|  |  |
| --- | --- |
| **ID:User04** | |
| As a user, I would like to have the functionality to perform division operations on two variables. | |
| **Actor:**User. | Condition:  -If you enter incorrect data (not a number), the system will report an error and confirm return.  -If entered correctly, the corresponding division calculation answer will appear.  -After completing the calculation, the system will have a delete button to perform a new calculation. |
| **User’s Story:** When performing division calculations to calculate everyday problems, users will use this function |

|  |  |
| --- | --- |
| **ID:User05** | |
| As a user, I want to have the function to perform division and remainder operations of two variables. | |
| **Actor:**User. | Condition:  -If you enter incorrect data (not a number), the system will report an error and confirm return.  -If entered correctly, the answer to the corresponding division and remainder calculation will appear.  -After completing the calculation, the system will have a delete button to perform a new calculation. |
| **User’s Story:** When performing division and remainder calculations to calculate daily problems, users will use this function |

|  |  |
| --- | --- |
| **ID:User06** | |
| As a user, I would like to have the ability to perform square operations on numbers | |
| **Actor:**User. | **Condition:**  -If you enter incorrect data (not a number), the system will report an error and confirm return.  -If entered correctly, the corresponding square answer will appear.  -After completing the calculation, the system will have a delete button to perform a new calculation. |
| User's Story: When performing square calculations to calculate everyday problems, users will use this function. |

|  |  |
| --- | --- |
| **ID:User07** | |
| As a user, I would like to have the ability to perform square roots of variables. | |
| **Actor:**User. | Condition:  -If you enter incorrect data (not a number), the system will report an error and confirm return.  -If entered correctly, the corresponding square root answer will appear.  -After completing the calculation, the system will have a delete button to perform a new calculation. |
| **User’s Story:** When performing square roots to calculate everyday problems, users will use this function |