|  |  |
| --- | --- |
| Name: | Startup |
| Summary: | This is the first interaction the user has with the SimpleCalc. The intent is to set the user up to easily see what they need to do to be successful |
| Version: | 1.0 |
| Preconditions: | 1. System displays app icon |
| Triggers: | 1. User selects app icon |
| Main Success Scenario: | 1. N/A |
| Postconditions: | 1. System displays “SimpleCalc” icon 2. System displays “history window” which will be blank 3. System displays all number pad and arithmetic operation signs as buttons 4. System displays “unit conversion” icon |
| Business Rules: | N/A |
| Notes: | If the user has used the SimpleCalc within the last 12 hours and hasn’t closed the app (switched to another app) then the history will remain from the previous session.  After startup is complete it waits for input from the user.  If the user is interrupted by a phone call, text, etc. the app will not return to this use case. It will resume where the user left off. |
| Author: | David Cheney |
| Date: | Jan 29, 2016 |

**SimpleCalc Use Cases**

|  |  |
| --- | --- |
| Name: | Calculate A Math Solution |
| Summary: | This is the main function of the App and what the user will be using. Addition, multiplication, division, modulus, exponents. |
| Version: | 1.0 |
| Preconditions: | 1. System displays “SimpleCalc” icon 2. System displays “history window” 3. System displays all number pad and arithmetic operation signs as buttons 4. System displays “unit conversion” icon |
| Triggers: | 1. User enters an arithmetic equation 2. User presses the “equals” button |
| Main Success Scenario: | 1. System displays and replaces the history with the equation as the user types the equation in the history window 2. After the “equals” button is pressed the system will display the equation and it’s answer as the last entry in the “history window” |
| Postconditions: | 1. System displays “SimpleCalc” icon 2. System displays “history window” which will be blank 3. System displays the history of equations with answers including the most recent 4. System displays all number pad and arithmetic operation signs as buttons 5. System displays “unit conversion” icon |
| Business Rules: | N/A |
| Notes: |  |
| Author: | David Cheney |
| Date: | Jan 29, 2016 |

|  |  |
| --- | --- |
| Name: | Unit conversion |
| Summary: | This is the main function of the App and what the user will be using. Addition, multiplication, division, modulus, exponents. |
| Version: | 1.0 |
| Preconditions: | 1. User selects “unit conversion” icon 2. System displays “SimpleCalc” icon 3. System displays unit type drop down menu 4. System displays “unit1 window” which will be blank 5. System displays “unit1 measurement type” drop down 6. System displays “unit2 measurement type” drop down 7. System displays “convert” button and all number pad as buttons 8. System displays “calculator” icon |
| Triggers: | 1. User selects “unit conversion” icon 2. User selects “unit1 measurement type” 3. User selects “unit1 window” and types in value 4. User selects “unit2 measurement type” 5. User selects “convert” button |
| Main Success Scenario: | 1. N/A |
| Postconditions: | 1. System displays “SimpleCalc” Icon 2. System displays unit type drop down menu with previously selected 3. System displays “unit1 window” with user input value 4. System displays “unit1 measurement type” drop down with unit type selected 5. System displays “unit2 measurement type” drop down with unit type selected 6. System displays “unit2 value” as converted value in “history” window. |
| Business Rules: | N/A |
| Notes: | If the user has used the SimpleCalc within the last 12 hours and hasn’t closed the app (switched to another app) then the history will remain from the previous session.  If the user is interrupted by a phone call, text, etc. the app will not return to this use case. It will resume where the user left off. |
| Author: | David Cheney |
| Date: | Jan 29, 2016 |