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| --- | --- |
| 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 pictures of previous proofs on bottom of screen 2. System displays pictures of algebra in daily life on top of screen |
| Business Rules: | N/A |
| Notes: | If the user has never used the app the produce own proof will display a single picture of an example proof.  Both the previous proofs pictures and algebra in daily life pictures are individual slide shows of pictures within their respective categories.  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 |

**Use Cases**

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| --- | --- |
| Name: | Discover Algebra in Daily Life |
| 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 pictures of previous proofs on bottom of screen 2. System displays pictures of algebra in daily life on top of screen |
| Triggers: | 1. User clicks on picture of discover algebra in daily life |
| 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 |

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| --- | --- |
| Name: | Produce own proof |
| 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 pictures of previous proofs on bottom of screen 2. System displays pictures of algebra in daily life on top of screen |
| 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 |
| 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 |

|  |  |
| --- | --- |
| Name: | Produce Own Proof |
| 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 pictures of previous proofs on bottom of screen 2. System displays pictures of algebra in daily life on top of screen |
| Triggers: |  |
| Main Success Scenario: |  |
| Postconditions: |  |
| Business Rules: | N/A |
| Notes: |  |
| Author: | David Cheney |
| Date: | Jan 29, 2016 |

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| --- | --- |
| Name: | Share Discoveries and Proofs |
| 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 |