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COMP 3710, Assignment 2

**User Story #1: As a user, I want to convert a Fahrenheit measurement to Celsius**

Use Case Name: Fahrenheit Conversion to Celsius

Actors: General User

Goal: Convert a specified Fahrenheit measurement to Celsius

Preconditions: User has the software up and running at the main screen

Summary: The user will touch the Fahrenheit field at the top of the screen and enter their desired value. Afterwards, the conversion from degrees Fahrenheit to degrees Celsius will appear in the corresponding Celsius field to the right.

Related Use Cases: None.

Steps:

|  |  |
| --- | --- |
| Actor Actions | System responses |
| Touch the Fahrenheit field | Allow the user to enter their measurement |
| Specify degree Fahrenheit measurement |  |
| N/A | The conversion from Fahrenheit to Celsius appears below |

Postconditions: The system will stay on the same screen and show the conversion to Celsius.

Main Screen:

F:

C:

km:

mi:

kg:

lbs:

gal:

L:

**User Story #2: As a user, I want to convert a measurement in miles to kilometer**

Use Case Name: Miles Conversion to Kilometers

Actors: General User

Goal: Convert a specified miles measurement to kilometers

Preconditions: User has the software up and running at the main screen

Summary: The user will touch the miles field and enter their desired value. Afterwards, the conversion from miles to kilometers will appear in the corresponding kilometers field to the right.

Related Use Cases: None.

Steps:

|  |  |
| --- | --- |
| Actor Actions | System responses |
| Touch the miles field | Allow the user to enter their measurement |
| Specify degree miles measurement |  |
| N/A | The conversion from miles to kilometers appears below |

Postconditions: The system will stay on the same screen and show the conversion to kilometers.

Main Screen: See above

**User Story #3: As a user, I want to convert a measurement in pounds to kilograms**

Use Case Name: Pounds Conversion to Kilograms

Actors: General User

Goal: Convert a specified pounds measurement to kilograms

Preconditions: User has the software up and running at the main screen

Summary: The user will touch the pounds field and enter their desired value. Afterwards, the conversion from pounds to kilograms will appear in the corresponding kilograms field to the right.

Related Use Cases: None.

Steps:

|  |  |
| --- | --- |
| Actor Actions | System responses |
| Touch the pounds field | Allow the user to enter their measurement |
| Specify degree pounds measurement |  |
| N/A | The conversion from pounds to kilograms appears below |

Postconditions: The system will stay on the same screen and show the conversion to kilograms.

Main Screen: See above

**User Story #4: As a user, I want to convert a measurement in gallons to liters**

Use Case Name: Gallons Conversion to Liters

Actors: General User

Goal: Convert a specified gallons measurement to liters

Preconditions: User has the software up and running at the main screen

Summary: The user will touch the gallons field and enter their desired value. Afterwards, the conversion from gallons to liters will appear in the corresponding liters field to the right.

Related Use Cases: None.

Steps:

|  |  |
| --- | --- |
| Actor Actions | System responses |
| Touch the gallons field | Allow the user to enter their measurement |
| Specify gallons measurement |  |
| N/A | The conversion from miles to liters appears below |

Postconditions: The system will stay on the same screen and show the conversion to liters.

Main Screen: See above