# Subject web application:  convert

Convert is a small web application, containing one java servlet. It allows users to enter multiple units of measurements and convert them to comparable units of measurements.

## Specific requirements

### Functional requirements

| Use Case Name: convert |
|---|
| **Use Case ID:** convert-1 |
| **Actors:** web user |
| **Brief Description:** The system allows users to enter and convert measurements |
| **Pre-Conditions:**  None |
| **Main Flow of Events:**<br>   1.   User enters one or more measurements.<br>   2.   User presses the 'Convert' button.<br>   3.   The system displays appropriate conversions. |
| **Post-Conditions:** The system displays appropriate conversions. |
| **Alternative Flows and Exceptions:**<br>Alternative 1, Insert Point Step 2-3<br>If the user selects the 'Reset Form' button, the system resets the form and clears all previous conversions. |
| **Assumptions:** None. |

## Other Requirements

| Requirement ID | Requirement |
|---|---|
| SRS_01 | The system shall allow users to enter a measurement in Fahrenheit. |
| SRS_02 | The system shall allow users to convert a measurement from Fahrenheit to Celsius. |
| SRS_03 | The system shall allow users to enter a measurement in Celsius. |
| SRS_04 | The system shall allow users to convert a measurement from Celsius to Fahrenheit. |
| SRS_05 | The system shall allow users to enter a measurement in inch. |
| SRS_06 | The system shall allow users to convert a measurement from inch to centimeter. |
| SRS_07 | The system shall allow users to enter a measurement in centimeter. |
| SRS_08 | The system shall allow users to convert a measurement from centimeter to inch. |
| SRS_09 | The system shall allow users to enter a measurement in feet. |
| SRS_10 | The system shall allow users to convert a measurement from feet to meter. |
| SRS_11 | The system shall allow users to enter a measurement in meter. |
| SRS_12 | The system shall allow users to convert a measurement from meter to feet. |
| SRS_13 | The system shall allow users to enter a measurement in mile. |
| SRS_14 | The system shall allow users to convert a measurement from mile to kilometer. |
| SRS_15 | The system shall allow users to enter a measurement in kilometer. |
| SRS_16 | The system shall allow users to convert a measurement from kilometer to mile. |
| SRS_17 | The system shall allow users to enter a measurement in gallon. |
| SRS_18 | The system shall allow users to convert a measurement from gallon to liter. |
| SRS_19 | The system shall allow users to enter a measurement in liter. |
| SRS_20 | The system shall allow users to convert a measurement from liter to gallon. |
| SRS_21 | The system shall allow users to enter a measurement in ounce. |
| SRS_22 | The system shall allow users to convert a measurement from ounce to gram. |
| SRS_23 | The system shall allow users to enter a measurement in gram. |
| SRS_24 | The system shall allow users to convert a measurement from gram to ounce. |
| SRS_25 | The system shall allow users to enter a measurement in pound. |

| Requirement ID | Requirement |
|---|---|
| SRS_26 | The system shall allow users to convert a measurement from pound to kilogram. |
| SRS_27 | The system shall allow users to enter a measurement in kilogram. |
| SRS_28 | The system shall allow users to convert a measurement from kilogram to pound. |
| SRS_29 | The system shall allow users to reset the form. |
| SRS_30 | The system shall allow users to enter multiple measurements. |
| SRS_31 | The system shall allow users to convert multiple measurements at the same time. For instance, users may enter measurements in Fahrenheit, Celsius, mile, ounce, and gram and convert them in one form submission. |