# Introduction

This document is part of a test case for the Trace Tool. As such, these are not real requirements, but they do resemble real requirements.

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# System Details

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# Software Requirements

**BOLUS:SRS:1** The software **shall** provide a bolus calculator feature. **[PUMP:PRS:1]**

**BOLUS:SRS:2** The bolus size shall be estimated as the sum of the insulin needed to cover the current meal (if any) and correct down to 110 mg/dL. If the sum is negative, the bolus is aborted. **[PUMP:PRS:1]**

**BOLUS:SRS:5** The amount of insulin needed to cover the meal shall be estimated only when the user indicates a meal was consumed. The volume of insulin shall be estimated as the number of carbs divided by the CarbRatio. **[PUMP:PRS:1] [PUMP:PRS:5]**

**BOLUS:SRS:6** The amount of insulin needed to correct glucose levels shall be estimated by the following formula if and only if the glucose is greater than 110: **[PUMP:PRS:1] [PUMP:PRS:3]**

**BOLUS:SRS:8** The value of CorrectionBolus shall be set to zero when the glucose is between 80 and 110 mg/dL, inclusive. **[PUMP:PRS:1]**

**BOLUS:SRS:12** The amount of insulin needed to correct glucose levels shall be estimated by the following formula if and only if the glucose is less than 80. Please note that in this case, the dose amount is a negative number. **[PUMP:PRS:1] [PUMP:PRS:8]**