

MI133 Lab Assignment 1

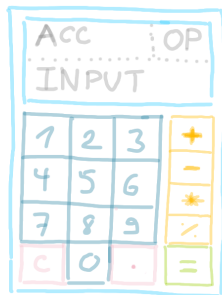
Due dates:

- group1: 2018/10/26
- group2: 2018/11/02

This is not a group assignment! Students may collaborate, but have to hand in their own version of the calculator.

A Calculator

Consider a simple pocket calculator:



Everybody knows how this device works: The device state consists of:

- the current INPUT
- an accumulator (ACC)
- a pending operation (OP)

But there are some pitfalls:

- the ACC can be empty
- the OP can be empty
- the input can or can not have a fraction
- the input should not contain leading 0s
- C clears input, but if INPUT is initial value it clears ACC
- division by 0
- equal (=) only performs the pending operation on with INPUT and ACC
- operators (+, -, *, /) behave differently, if ACC is empty

Tasks

Using React and Redux:

1. create a user interface according to the mockup
2. handle button and keyboard input
3. implement proper integer calculator operation
4. allow floating point input
5. publish the result on Google App Engine