

Software Task

Deadline: two weeks after handout

1. Please analyze the requirements of the request “Simple Graph Calculator and Plotter” described below. Identify relevant subtasks and name other relevant aspects of a requirement analysis.
2. Please create suitable software concept for the mentioned requirement and document it in your preferred form. Try to use well-known and established methods.
3. [Optional] Create a prototype in C# .Net 4.8 and WPF. Deliver executables and source code. Don't use restricted software components or libraries for commercial purpose. Describe possible gaps between the prototype and a final software product.

NFR: SIMPLE GRAPH CALCULATOR AND PLOTTER

GENERAL INFORMATION

- Request Editor: Büchner
- Date: asap
- Product: LIS-Standalone
- Model: All
- Customer/Account: All
- RTC: 123456
- Type of Feature: Standard

BACKGROUND & MOTIVATION

- Easy to enter function parameters for defined functions to see the effects and changes in a graph.
- User can see the effects of the parameters easily.

**FEATURE
HIGH-LEVEL
DESCRIPTION**

SIMPLE GRAPH CALCULATOR & PLOTTER

Windows Application to enter the parameters for trigonometric functions (sin and cos) and the Sinc function. The functions should be visualized in 2D. The range must be adaptable. The Type of the function should be selectable.

**SPECIFICATION
DESCRIPTION**

FOLLOWING ADVANCED FEATURES

- After opening the application, the last parameters should be visible.
- The visualization should be storable in vector format

**ERROR
SCENARIOS/
MESSAGES:**

BEHAVIOR IN CASE OF ERROR

Aaa

ERROR MESSAGING

aaaa

**ACCEPTANCE
CRITERIA**

AAA

aaaa

**SUPPORTING
DOCUMENTS**

USER DOCUMENTATION

aaa

**TESTING TIPS &
FOCUS FOR QA**

AAA