

# 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 source code and maybe third-party dependencies. Don’t use restricted software components or libraries for commercial purpose.
4. Please describe possible gabs between a prototype development and a final software product. Where do you see differences?

## NFR: SIMPLE GRAPH CALCULATOR AND PLOTTER

### GENERAL INFORMATION

- Request Editor: Büchner
- Date: asap
- Product: LIS-Simple Graph Plotter
- 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**

Must be defined

**ERROR MESSAGING**

Must be defined

**ACCEPTANCE  
CRITERIA**

**ACCEPTANCE A TILL N**

Must be defined

**SUPPORTING  
DOCUMENTS**

**USER DOCUMENTATION**

Must be defined

**TESTING TIPS &  
FOCUS FOR QA**

**MUST BE DEFINED**