

# Requirements and Analysis Document for Iterations Laboratories

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This version overrides all previous versions.

## 1 Introduction

*(Background explaining why this application is needed (besides mandatory in course). What's the problem addressed (use imagination)? What will it do? Who will benefit/use from this application? In what situation will the application be used? Define the application and general characteristics of application.)*

What is it?

- A simple application for notes. A tool for studying.

Why is it needed?

- Existing applications of this kind are often too complex, and both show and contain too many tools to be quick and easy to use.

For who?

- For those who want to take quick and easy notes such as students who use their computer daily.

What does it do?

- Provides easy tools for taking, organizing and editing notes.

When will it be used?

- During lectures, meetings and self-studies, or at home for various private administrative tasks.

Description: A clean and easy application for taking notes.

General characteristics: Clean look. Easily accessed tools. Clear organization. A lot of writing space.

## 1.2 Definitions, acronyms and abbreviations

*Create word list to avoid confusion.*

Toolbar - editing tools

Fille/Anteckningshanterare - opens collapsible panel where notes are organized

Anteckning - dokument, note

Grupper - groups of notes, anteckningsböcker, anteckningsblock

Listmenu - listikonen som öppnar en dropdown där man kan välja typ av list (3 olika)

Line through - funktionen som skapar ett streck genom text

## **2 Requirements**

### **2.1 User interface**

Sketches, drawings and explanations of the application user interface (possible navigation).

One window. Big with a lot of canvas space for taking down notes. Ribbon at the top with module tabs and toolbar. Module tabs provide different sets of tools. The toolbar shows the tools available in each mode.

“Name:” at the top for naming the note together with a control for saving the note in a group. If not saved the group is automatically added to ‘Uncategorized’ which is a default group which can not be deleted.

Module tabs:

- Write - shows tools for editing text
- Draw - shows tools for drawing
- Equations - contains ready equations and formulas to fill in

Tools in write

- Font - dropdown menu with scroll
- Size - dropdown menu with scroll
- Bold - bolds marked text and/or bolds future text
- Italics - italicises marked text and/or italicises future text
- Underlined - underlines marked text and/or underlines future text
- Lined through - makes a line through marked text or makes alines through future text
- Lists - provides three different kinds of lists (dots, number, checkbox), creates template on next available line, creates new icon when ‘enter’ pressed
- Highlighting - dropdown for colors highlight marked text

Tools in draw

- color palette - dropdown for picking color
- size of pencil - 3 preset sizes

Undo/Redo-buttons

## 2.2 Functional requirements

What will the user be able to do ? Write a list of use case names (id's) in the language of the customer. The specific flows for each use case is recorded below.

Specify a use cases in priority order.

Use cases:

- Skriv (high)
  - ändra font
  - ändra storlek
  - ändra till tjock text
  - ändra till kursivt
  - markera med understreck
  - dra streck igenom
  - välj lista
  - välj att skapa numrerad lista
  - välj att skapa checklist
  - välj att skapa punktlista
  - välj markeringspenna
  - ångra
  - gör om
  - markera text
    - ändra font
    - ändra storlek
    - ändra till tjock text
    - ändra till kursiv text
    - markera med understreck
    - dra streck igenom
    - välja lista
    - välj att skapa numrerad lista
    - välj att skapa checklista
    - välj att skapa punktlista
    - markera text med överstrykningspenna
- Måla
  - väljer färg
  - väljer tjocklek på pensel
  - väljer typen av skrivdon
  - ångrar
  - gör om

- Öppnar Anteckningshanteraren/Fille (high)
  - Skapa en ny grupp (high)
  - Högerklicka på en grupp
    - radera gruppen
    - ändra namn på gruppen
  - Öppna gruppen (high)
    - öppna anteckning (high)
    - högerklicka på anteckningen
      - radera anteckning
      - kopiera anteckning
      - byta namn på anteckning
- Ekvationer
  - väljer en ekvation
  - skriver in namnet på en typ av ekvation

## **2.3 Non-functional requirements**

Any special considerations besides functionality ? Usability, reliability, performance, supportability, legal, implementation, ...

NOTE: Testability mandatory (must have tests)

Must be easy to use.

Must be easy to understand.

Must be easy to navigate in.

Minimum excise.

Maximum flow.

## **3 Use cases**

An UML use case diagram

### **3.1 Use case listing**

Use case texts (using the use case template)

## **4 Domain model**

An UML class diagram .

### **4.1 Class responsibilities**

Explanation of responsibilities of classes in diagram

## **5 References**

