

## Criterion A- Planning

### Problem Statement:

Mrs. Ercolino has troubles keeping track of what she plants in her garden and wants to compare her cultivating to past years.

### Description of Scenario:

Mrs. Ercolino as an Upper School counselor has a lot of responsibilities at school, and when she goes home to her garden she has to make sure her seeds are healthy. For her free time, she plants vegetables and fruits in 30m<sup>2</sup> section of her garden. She plants “everything”<sup>1</sup> from corn, carrots, and eggplant to strawberries cherry apricot. She does not have much time to calculate when are the ideal times to plant and harvest days are, in the past she has tried keeping organized but as said in interview 2 she still has not found the best way to keep her data organized, because writing in paper does not seem to be working for her.

### Rationale for the proposed product:

As Ms. Ercolino said that she is having difficulties staying organized<sup>2</sup>, therefore the program I will make is going to be on the computer so she can input data easily and keep it safe in one place. It was clear in my interview with Ms. Ercolino that she needs some place to keep her data. I will use a GUI, which will be made in NetBeans because in class we’ve done it and I’m familiar with it. Also using GUI could be a good idea since it will be simple for Ms. Ercolino to input her data with dropdown menus. As seen in the appendix 1, Ms. Ercolino said that she finds it hard to know when the best day to plant her seeds are because she cannot keep track of the past years<sup>3</sup>. The rationale for building this program is for her planting to be more efficient, and to keep her more organized, it’s more professional.

### Success Criteria for Product:

- \* The User will be able to input information during the four seasons when it is time to plant or harvest her seeds
- \* Information includes:
  - Type of seed planted- vegetable or fruit (achieved with two pop-up menus)
  - Date of when the seed was planted (achieved with pop-up menu for month, date, year)
  - If there is frost “yes” or “no” (achieved as a radio button)
  - If users presses “yes” user needs to input if it is the first or last frost date (achieved as a radio button)
  - Date of frost (achieved as a text field)
  - Amount of seeds planted in grams (achieved as a text Field)

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<sup>1</sup> Interview 2. Appendix 2. Question 5

<sup>2</sup> Interview 1. Appendix 1. Question 1

<sup>3</sup> Interview 1. Appendix 1. Question 2

- Location of planting (achieved as a radio buttons)
  - Location of the field if location in “indoor”
  - Table where the info is put
  - Space for any comments Ms. Ercolino has about season
- \* The user will be able to input boxes clear when user presses “ok”
- \* When user presses “ok” info will appear in table
- \* The User will be able to search for past years and compare to the recent year
- \* User will have a separate sheet for the different seasons
- \* Comparing the current year to past years:
- Amount of snow predicted
  - Calculate when she should plant based on most similar year
  - Planting
  - Yield
  - Comment about their experience this year
- \* In order for this program to user-friendly for Ms. Ercolino I will provide with some features:
- User will be provided with Help-boxes (help button-pop-up)
  - User can save and open data
  - Drop-down menus
  - Examples shown (in the dates)
  - Radio buttons