Chua Sim Nee - Project Portfolio

PROJECT: ORGANice

1. Introduction

This document aims to show an overview of my involvements in the project, ORGANice. My role in this project was to implement the task list for the users to track the administrative tasks that needs to be done.

1.1. Project Description

ORGANice is developed by a team of five students in National University of Singapore (NUS). All of us are year 2 Computer Science students,taking the Software Engineering module, CS2103T.

1.2. Project Scope

ORGANice was made for our CS2103T module’s team project (TP). Over the course of 6 weeks, we were tasked with either enhancing or morphing a Command Line Interface (CLI) desktop addressbook application. We chose to morph it into an organ transplant manager, ORGANice. It has a Graphical User Interface (GUI) which is created with JavaFX.

The target audiences of ORGANice are the hospital administrative staffs as we aim to help ease their workload when trying to match all their patients with all the donors' organs they have.

1.3. Project Summary

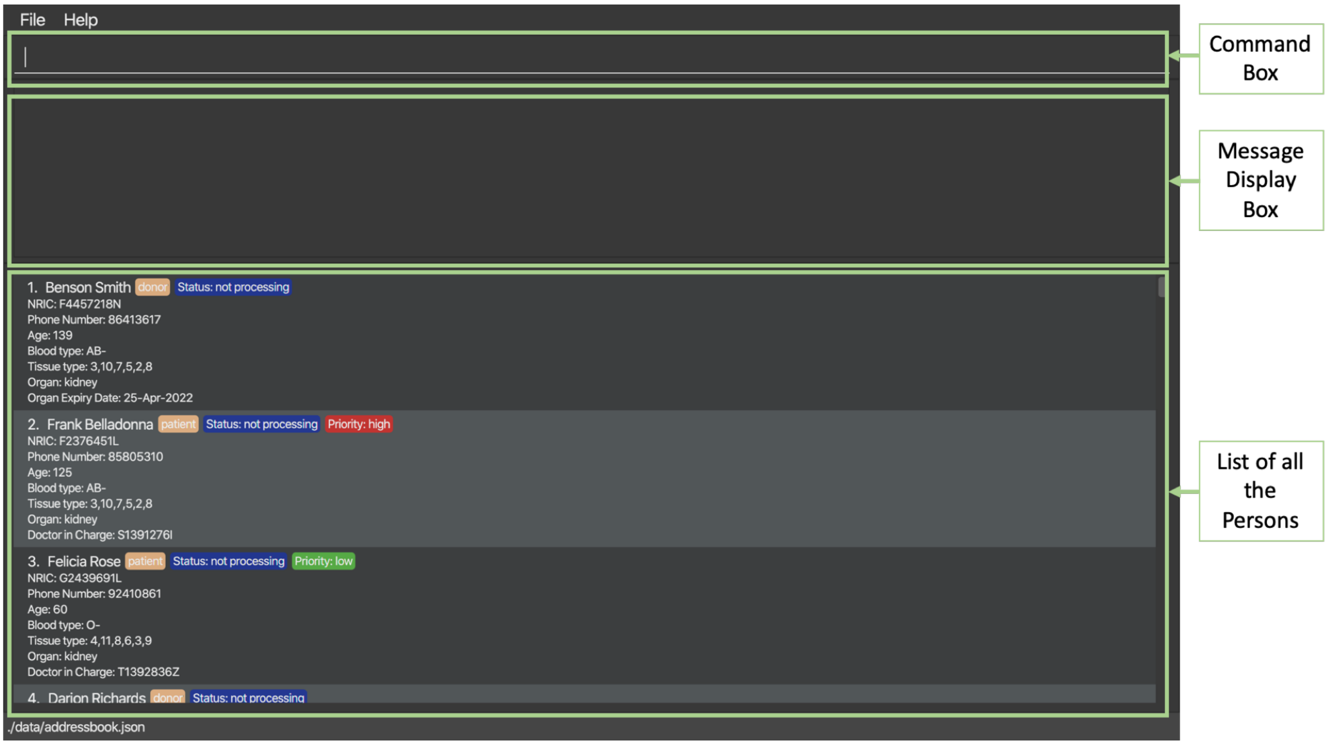
ORGANice is an organ transplant manager. Currently, hospital administrative staffs have many patients and organ donors information in their records. Whenever, they have a new patient who needed an organ, they often have to go through many manual search and matching to find a compatible donor. We aim to reduce such menial work using ORGANice and speed up this process.

ORGANice is able to:

- `add` and `edit` patients, donors and doctors information.
- `list` the entire database information.
- `match` the patients and show potential compatible donor’s information.
- `sort` the result after using `match` command.
- `find` a specific patient, donor or doctor in ORGANice.
- `processing` a patient and a donor who are compatible to generate a list of administrative tasks to do for the patient and donor.

- done processing a patient and donor pair and determine if they can be removed from the matching pool.

This is what ORGANice looks like:



```
1. Benson Smith donor Status: not processing
NRIC: F4457218N
Phone Number: 86413617
Age: 139
Blood type: AB-
Tissue type: 3,10,7,5,2,8
Organ: kidney
Organ Expiry Date: 25-Apr-2022
2. Frank Belladonna patient Status: not processing Priority: high
NRIC: F2376451L
Phone Number: 85805310
Age: 125
Blood type: AB-
Tissue type: 3,10,7,5,2,8
Organ: kidney
Doctor in Charge: S1391276I
3. Felicia Rose patient Status: not processing Priority: low
NRIC: G2439691L
Phone Number: 92410861
Age: 60
Blood type: O-
Tissue type: 4,11,8,6,3,9
Organ: kidney
Doctor in Charge: T1392836Z
4. Darion Richards donor Status: not processing
./data/addressbook.json
```

Figure 1. The graphical user interface for ORGANice.

1.4. Key formatting

2. Summary of Contributions

This section lists the codes and documentations I contributed to ORGANice.

I was responsible of implementing the `processing`, `processingMarkDone` and `done` commands. I also ensured the code quality is up to standard.

2.1. Main Feature : `Processing`

This section will explain the command, `processing` I implemented for ORGANice.

- What it does:
  It allow user to view a whole list of administrative tasks which needs to be done to arrange for cross-matching test between a patient and a donor.
- Justification:
  Hospital staffs often need to do a lot of paper work and administrative tasks. There is now an increasing number of patients admitting to hospitals and if they need an organ, there will be a standard operating procedure which need to be followed. With ORGANice, staffs will not need to manually keep track of which tasks are not yet done for every patients.
- Highlights:

A default task list will be generated when the user use the command with valid NRICs of donor and patient. The task list generated belong to the donor and patient only. This will not lead to any confusions as it is impossible to have a donor matching with more than one patient or a patient matching with more than one donor.

2.2. Main Feature : `ProcessingMarkDone`

This section will explain the command, `processingMarkDone` I implemented for ORGANice.

- What it does:
  It allows users to mark a task on the list of administrative tasks as done.
- Justification:
  This command will allow the hospital staffs to have a better overview of what are the existing tasks which need to be done. This will reduce the chance of hospital staffs doing a single task for more than one time or miss out a task by accident.
- Highlights:
  This feature cannot be used if

2.3. Main Feature : `Done`

- What it does:
- Justification:
- Highlights:

2.4. Code Contributed

Please refer to this link to view the code I wrote: [RepoSense]

2.5. Other Contributions

- **Enhancements**
- **Documentations**
- **Community**

3. Contributions to User Guide

3.1. Current Enhancement

3.2. Proposed Enhancement for v2.0

4. Contibutions to Developer Guide

4.1. Current Enhancement

4.2. Proposed Enhancement for v2.0