



TO DO LIST

OFER GREENBERG

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INTRODUCTION

- For this project, our team was tasked with designing a to-do-list program with the following functionalities:
 - Add/Remove/Rename to-do lists
 - Add/Remove/Rename tasks to the lists
 - Sort the lists based on due date/ creation date and alphabetically
 - Mark tasks as done/undone and important
 - Provide a visual interface
 - Include an additional feature of our own
 - Provide proper documentation of the process, testing code and final product
- As a team we wanted to deliver a finished product that is esthetically appealing and robust.

PROCESS

For the development of this product, our team worked through three platforms

- IDE – per member's preference
- Github – for sharing code
- Trello – for managing and documenting progress
- Draw.io - for visualization
- Discord – as the main line of communication

SPRINTS

The development cycle included 3 sprints and a last day crunch

- Sprint I – in the meeting we decided on program architecture and split the work for building the foundation of the program, the classes and core method headers without implementations.
- Sprint II – in the meeting we decided on methods inputs and outputs and split the work of providing implementations to all the methods except the view class
- Sprint III – in the meeting we discussed adjustment to the methods inputs/outputs, decided on a wow factor and the GUI implementation. In the sprint we finished and tested the implementation of the entire program.

SPRINT I

- Formed a line of communication through emails and then discord.
- Agreed on a simple MVC model and created a preliminary class diagram (see in supported documents)
- Assigned classes or a combination of classes with overall comparable size, for each team member to create method headers based on the UML design.
- Lesson Learned:
 - Decide on inputs and outputs early on
 - Discuss basic style and formatting before sprint

SPRINT II

- In this scrum we went method by method and discussed the inputs and outputs.
- We randomly assigned an equal number of methods to each team member, for them to create an initial implementation
- We also discussed the proper way to document our progress
- Lesson Learned:
 - When assignment methods, we should in the future write peoples names as a comment, right on the file so we don't accidentally work on the same methods or neglect a method.
 - Read the specs as a team again to make sure we didn't miss requirements

SPRINT III

- In this sprint we focused on the view model and test cases.
- We decided to work on the backend, model and control, and the frontend, view, separately so team members can work freely on a class without creating conflicts
- We alternated roles to make sure everyone touches every aspect of the program, from GUI through model and test cases.
- The goal was to get the GUI working, then in the last day crunch, sort out possible bugs.
- Lesson Learned:
 - When working on an interface, getting the aesthetic can be difficult when the class is cluttered, so planning using a diagram what object to use would've been useful.
 - preferably finish the design and then move to implementation

CODE VIEW PACKAGE

- The view package contains the GUI
- The code is organized, top to bottom, in a way that allowed us to collaborate most efficiently.
- The colors reflect code complexity

GUI Elements declared as fields and grouped by topic

Application start

- > calls set up methods
- > lambda handlers to each button calling methods

Setup methods

- > put elements into grids
- > call styling methods to configure looks and esthetics

Behaviore Implementation

- > Method for each program behavior
- > organized method by topic (list related, task related, sorting, updating, style)

CODE

MODEL PACKAGE

- The model package holds the `ToDoModel` class as well as the `ToDoList` and `ToDoTask` classes.
- All contain similar getters and setters with the model holding the data as `ArrayList<ToDoList>` which is serialized
- The `ToDoList` holds its data as `ArrayList<ToDoTask>`



CODE CONTROL PACKAGE

- The control package contains the `ToDoControl` class which communicates between the view and the model
- The control also provide sorting support
- When a list is sorted a certain way, the control first update the model, then the view receives current lists through the regular display methods. This reduces number of ways the view is interacting with model through the control.



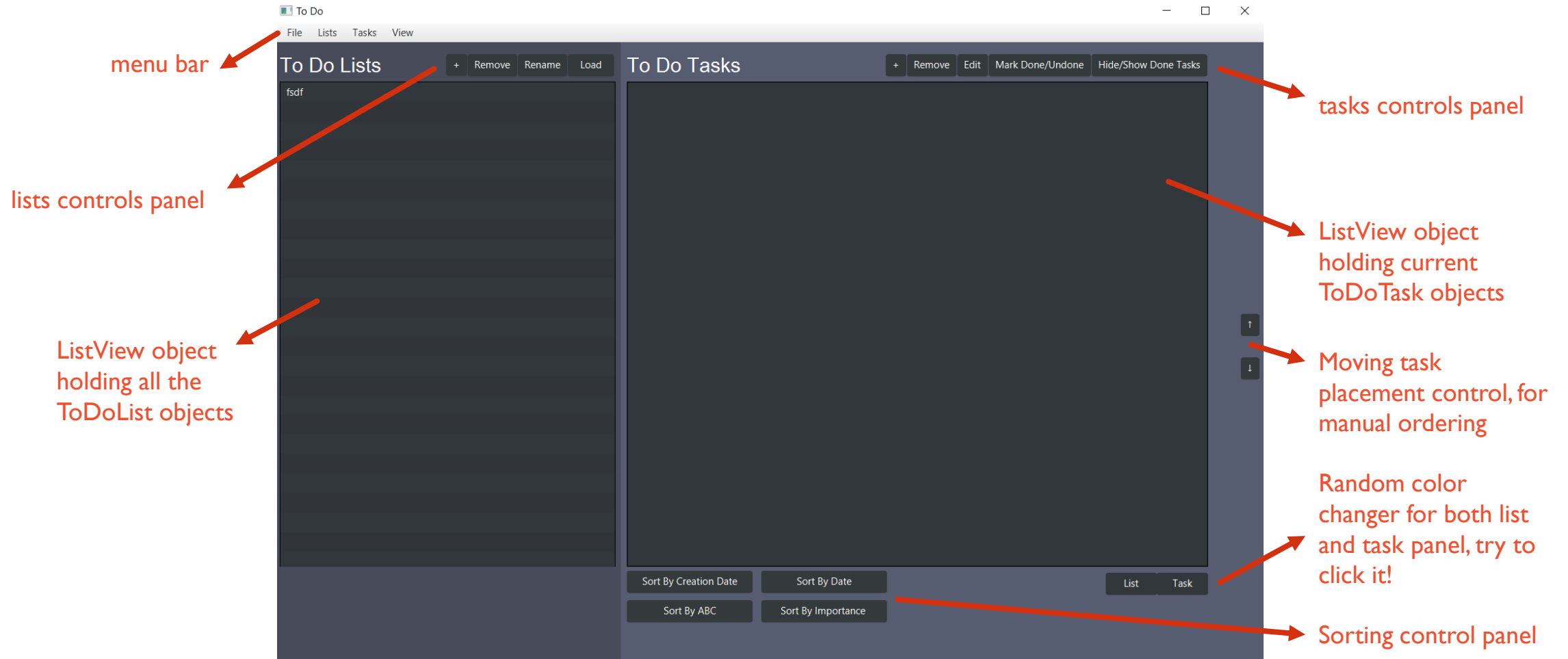
CODE TEST PACKAGE

- The test cases were developed and updated to support all the features in the model and control classes
- We strived for 100% converge and got over 90% for both the model the control the ToDoTask and ToDoList
- The test cases helped us correct many issues with the program while we were working on it rather than at the end.

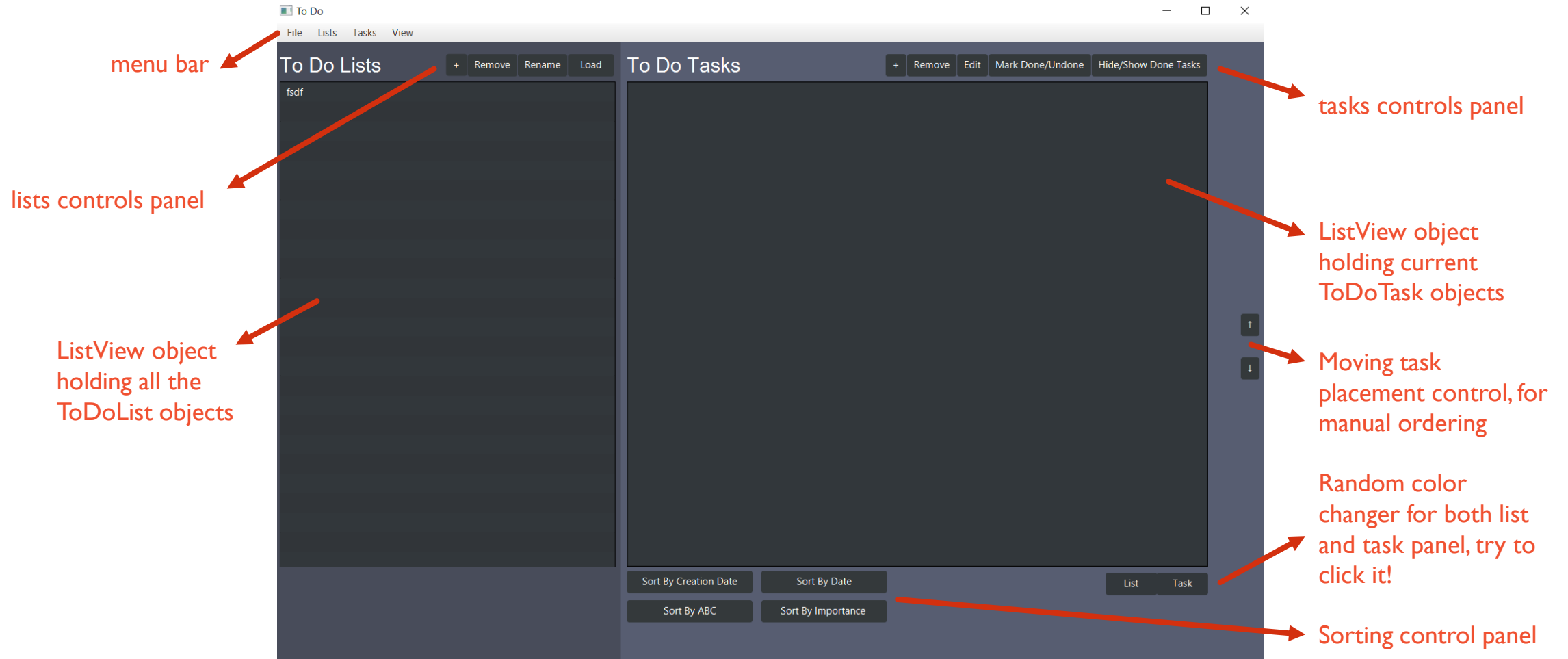
FINAL PRODUCT

- In the following slides you will see all the features in the GUI
- Using illustrations, we will try to explain how things are set up behind the scene (to be accurate, on the scene... JavaFX humor)

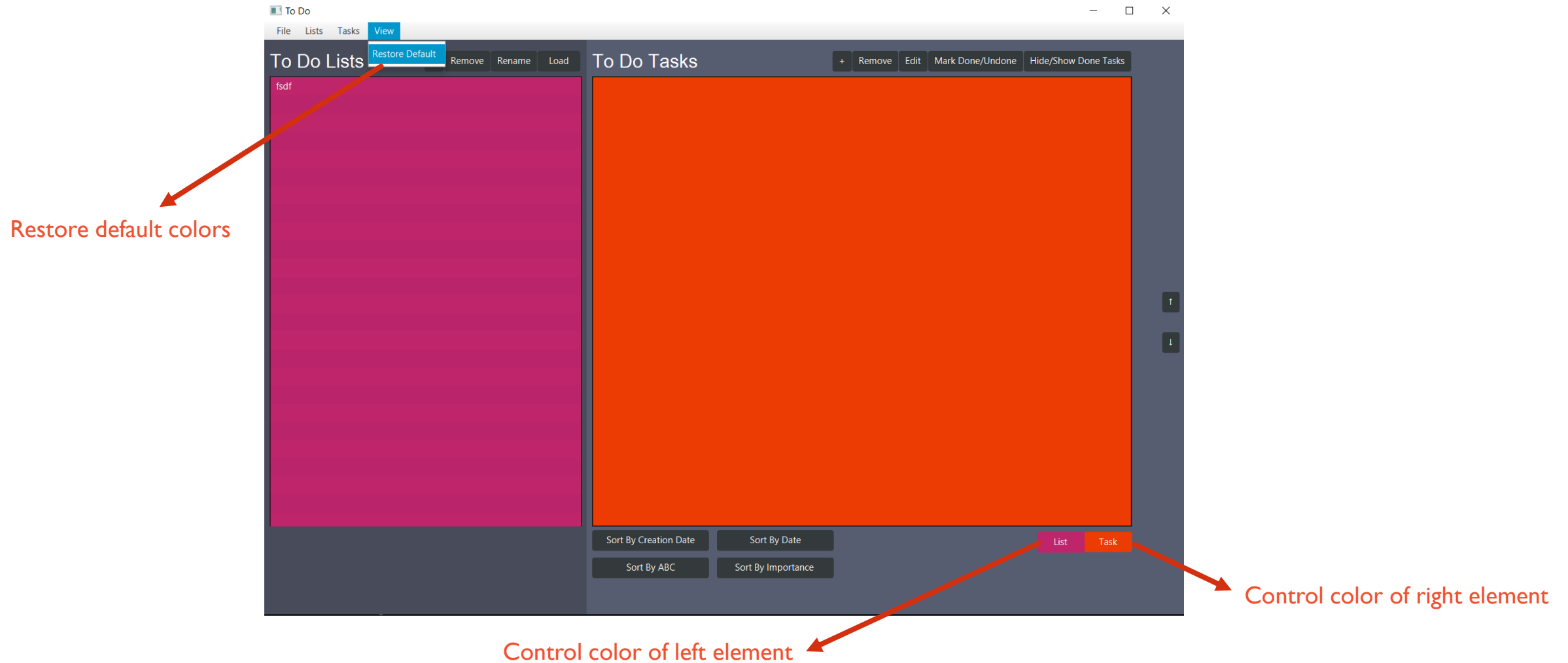
FINAL PRODUCT



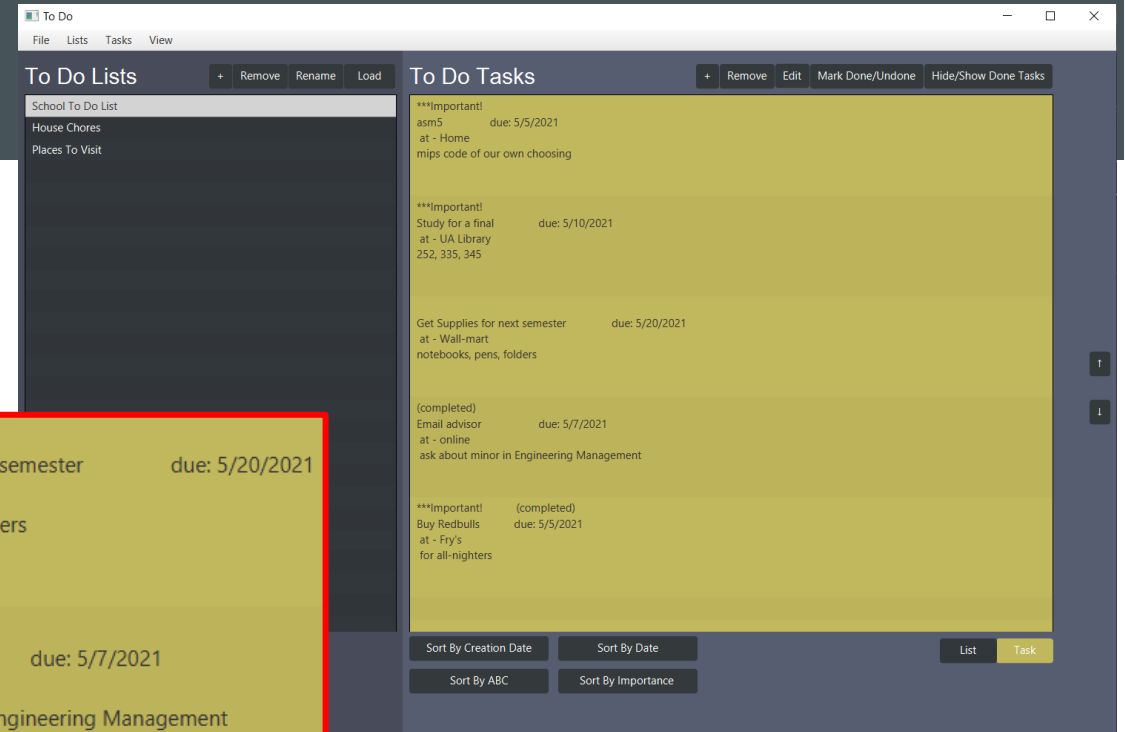
FINAL PRODUCT



FINAL PRODUCT



FINAL PRODUCT



Status: important and/or completed

Task name - title

Task location

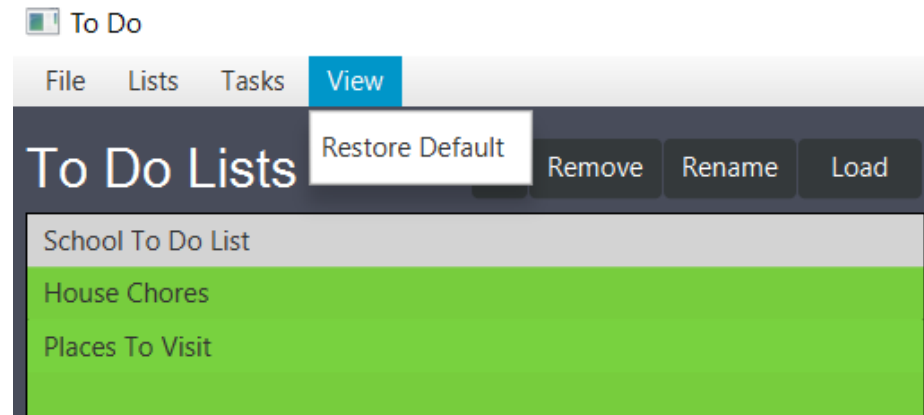
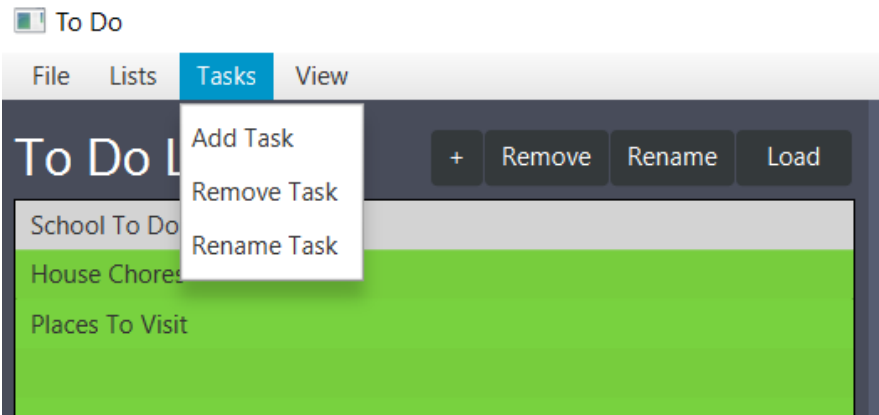
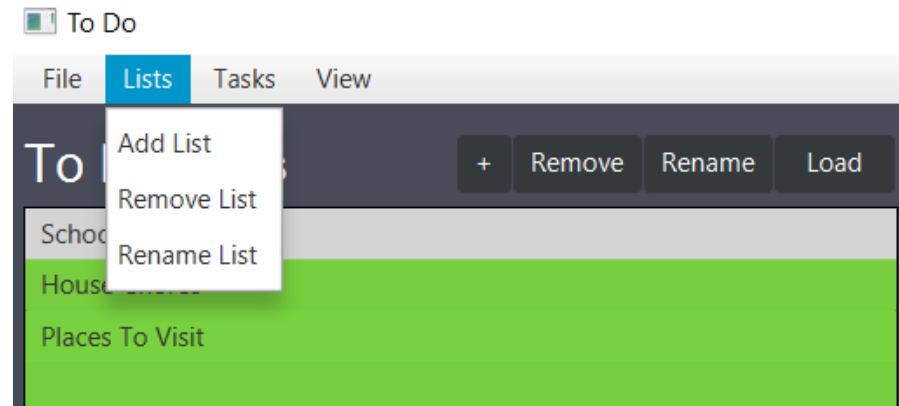
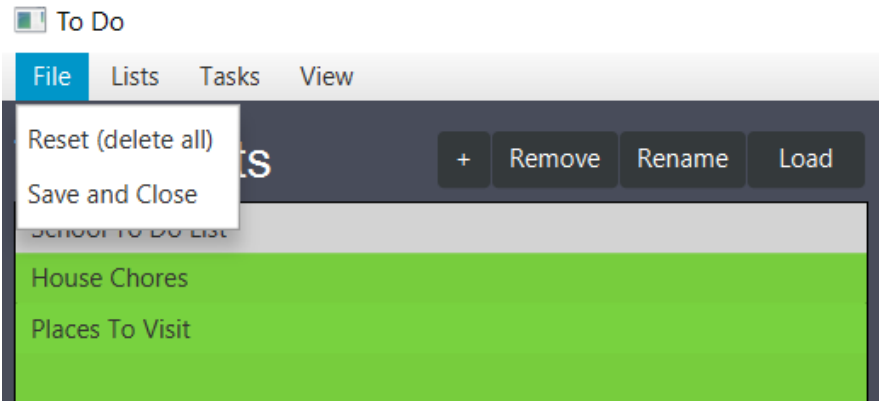
Task notes

Get Supplies for next semester due: 5/20/2021
at - Wall-mart
notebooks, pens, folders

(completed)
Email advisor due: 5/7/2021
at - online
ask about minor in Engineering Management

***Important! (completed)
Buy Redbulls due: 5/5/2021
at - Fry's
for all-nighters

FINAL PRODUCT – MENU ITEMS



FINAL PRODUCT – INPUT PROMPTS

Add List

Confirmation

List name: ?

OK Cancel

Rename List

Confirmation

List name: ?

OK Cancel

Add Task

Confirmation

(School work list) New Task: ?

Task Name

Task Location

Task Note

☐ Important

OK Cancel

Edit Task

Confirmation

(School work list) Edit Task: ?

asm5

5/5/2021

Home

mips code of our own choosin

☐ Important

OK Cancel

Appropriate error
messages if empty

Warning

Empty Title !

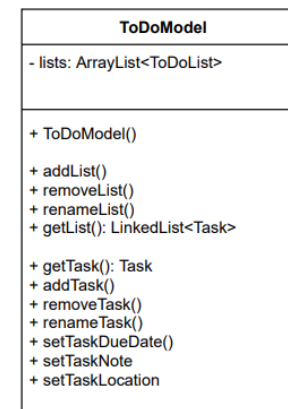
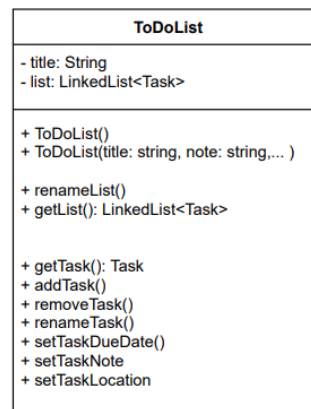
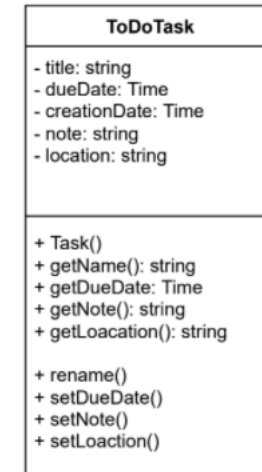
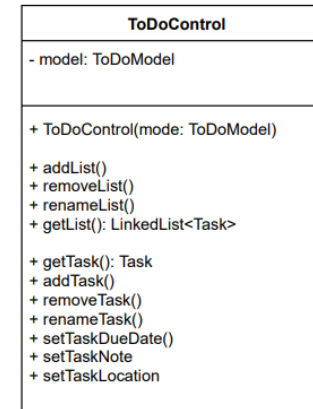
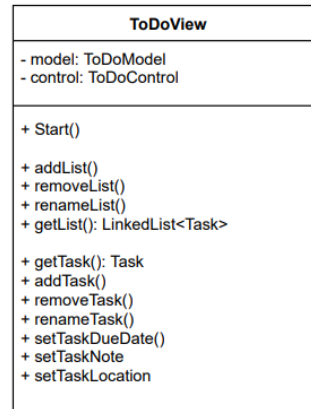
Title Can Not Be Empty

OK

SUPPORTING DOCUMENTS

UML, NOTES AND OTHER DOCS

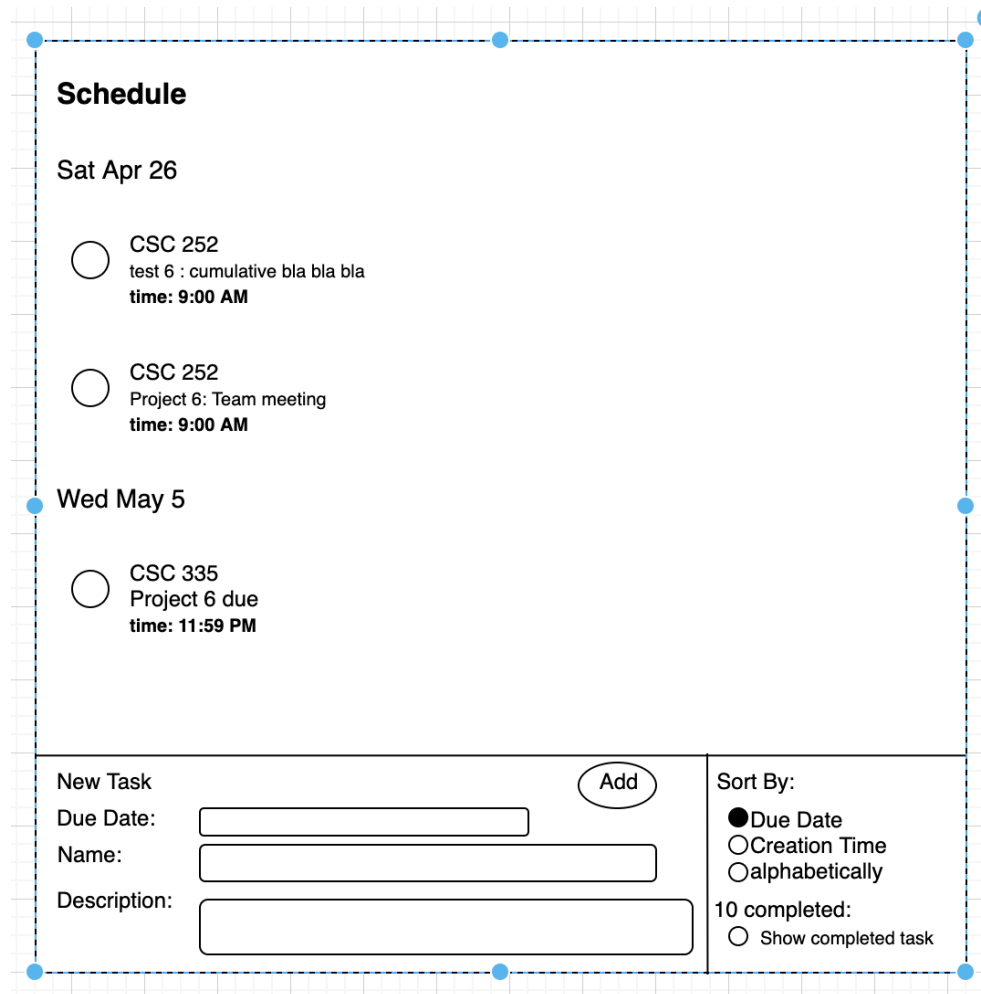
Initial class diagram



SUPPORTING DOCUMENTS

UML, NOTES AND OTHER DOCS

Initial UI design



The image shows a wireframe of a task scheduler application. It features a grid background and a dashed blue border. The main content area is divided into sections for dates and tasks. The 'Schedule' section is at the top, followed by a date separator 'Sat Apr 26'. Below this are two task entries, each with a radio button, a title, a description, and a time. The next date separator is 'Wed May 5', followed by one task entry. At the bottom, there is a 'New Task' form with fields for 'Due Date', 'Name', and 'Description', and an 'Add' button. To the right of the form is a 'Sort By' section with three radio buttons: 'Due Date' (selected), 'Creation Time', and 'alphabetically'. Below the sort options, it says '10 completed:' followed by a radio button and the text 'Show completed task'.

Schedule

Sat Apr 26

- ☐ CSC 252
test 6 : cumulative bla bla bla
time: 9:00 AM
- ☐ CSC 252
Project 6: Team meeting
time: 9:00 AM

Wed May 5

- ☐ CSC 335
Project 6 due
time: 11:59 PM

New Task Add

Due Date:

Name:

Description:

Sort By:

- ☒ Due Date
- ☐ Creation Time
- ☐ alphabetically

10 completed:

- ☐ Show completed task

SUPPORTING DOCUMENTS

UML, NOTES AND OTHER DOCS

Initial methods assignment

Model

`void` `addList` (String list) - add a list to the model lists - **Allen - complete**

`ToDoList` `removeList`(string id) - take name of the list as String and remove it from the lists, return list that is removed or null if it does not exist - **Kyelse**

`void` `renameList`(String oldName, String newName) - takes original id and replaced it with newName param - **Ofer**

`ToDoList` `getList`(String name) - searches through lists and returns the list with the param name - **quang**

`ToDoTask` `getTask` (String nameList, String nameTask) - return the task nameTask object found in the list nameList found in model private lists attribute - **Allen - completed**

`boolean` `addTask` (String nameList, `ToDoTask` newTask) - takes id of list, pass in a new task object. The methods adds it to the correct list - **Kyelse**

`ToDoTask` `removeTask` (String listName, taskName) - remove the task found in list param - **Ofer**

`boolean` `renameTask` (String nameList, String nameTask, String newName) - **Quang**

`boolean` `setTaskDueDate` (String listName, String taskName, *String dueDate) - change the due date found at list list name task task name to due date * `java.util.Date` explore as alternative - **Allen - complete with type error - need to discuss type error**

`boolean` `setTaskNote` (String listName, String taskName) - change the tasknote of the input params

- **Kyelse**

`boolean` `setTaskLocation` (String listName, taskName) - change the task location of the input params

- **Ofer**

`Void` `saveAll`() - **Kyelse**

SUPPORTING DOCUMENTS

UML, NOTES AND OTHER DOCS

Initial methods assignment

Controller:
`void addList (String name)`

- **Quang**

`ToDoList removeList (String name)`

- **Allen - completed**

`boolean renameList (String oldName, String newName)`

-Kyelse

`ToDoList getList (String name)`

Ofer

`boolean addTask (String nameList, ToDoTask newTask)`

quang

`boolean sortTask (String nameList, String whatToSort)`

Allen - completed - need to assign helper methods

`ToDoTask removeTask (String listName, taskName)` - remove the task found in list param

Kyelse

`boolean renameTask (String nameList, String nameTask, String newName)` -

Ofer

`boolean setTaskDueDate (String listName, String taskName, *String dueDate)` - change the due date found at list list name task task name to due date *`java.util.Date` explore as alternative

-quang

`boolean setTaskNote (String listName, String taskName)` - change the tasknote of the input params

-Allen - completed

`boolean setTaskLocation (String listName, taskName)` - change the task location of the input params

-Kyelse

SUPPORTING DOCUMENTS

UML, NOTES AND OTHER DOCS

Initial methods assignment

View:

List

`void` renameList(String oldName, String newName) - takes original id and replaced it with newName param - **Ofer**

`ToDoTask` getTask (String nameList, String nameTask) - return the task nameTask object found in the list nameList found in model private lists attribute - **Allen - completed**

`boolean` addTask (String nameList, ToDoTask newTask) - takes id of list, pass in a new task object. The methods adds it to the correct list - **Kyelse**

`ToDoTask` removeTask (String listName, taskName) - remove the task found in list param - **Ofer**

`boolean` renameTask (String nameList, String nameTask, String newName) - **Quang**

`boolean` setTaskDueDate (String listName, String taskName, `*String dueDate`) - change the due date found at list list name task task name to due date `* java.util.Date explore as alternative` - **Allen - not completed**

`boolean` setTaskNote (String listName, String taskName) - change the tasknote of the input params
Kyelse

`boolean` setTaskLocation (String listName, taskName) - change the task location of the input params

-Kyelse

THANK YOU