

1. Title:

Todo list: be ahead of due dates

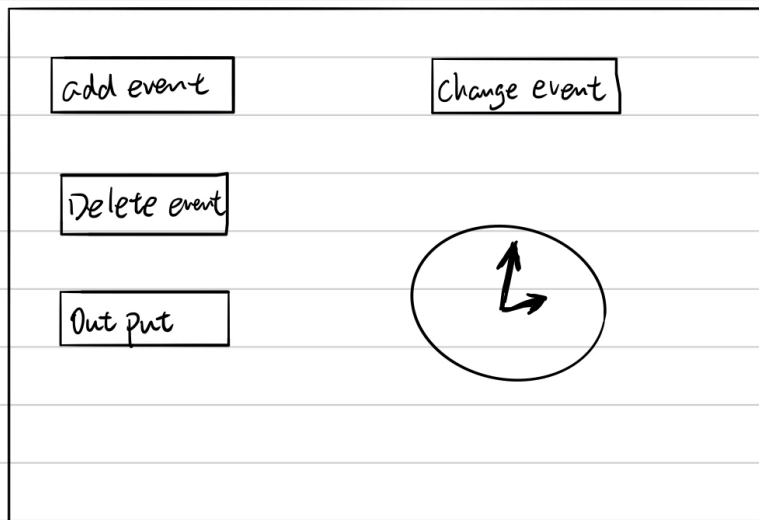
2. Problem:

Some times the work is to much and it requires a to do list to help me to arrange my time, so that I will not miss any assignment. My Todo list will serve as a calendar and save all of assignments and the due date.

3. Primary stakeholders:

The primary stake holders are all students as long as they have any assignment. Actually, it can be used by anyone because as long as you are a human, you have a horrible thing that is chasing you, which is normally called “due date”. User can set the category/subject of the event/assignment, the due date for that event, the priority, a introduction for the assignment and category and predicted time finish it.

4. Graphical user interface:



add event

* Must fill in something

Name *

Intro

Duedate *

How important

0	1	2	3	4	5
---	---	---	---	---	---

 5: very Important
0: trivial

predicted time to finish

change event

Name of event *

Delete event

Name of event *

Out put

Do you want .csv todo list, or just the thing you need to next.

5. Data Structure:

The user should be able to input the data from the console. Also, the user can have the input in form of csv file. I will use list ADT (implement linked list). I use it because I think the event are connected together. Once you have finished one assignment, you can just cross it out and start the next one. Also, I will probably use priority queue to have a separate to do list specifically for things that has priority. I will use a inner class to hold all the information of the object.

```
private int dueDate;
```

```
private int priority;
```

```
private String assignmentName;
```

```
private String assignmentIntro;
```

```
private String predictFinishTime;
```

6. Input Data File Format

Input type 1: type the information (such as due date, event name, priority) from the GUI and the program will store the data.

Input type 2: the program should be able to read from a .csv file

The Sample.csv file should include content like the following images:

Name	Due date	Introduction	Priority	Predicted time to finish
X5 team proposal	11.20.2019	CS 400	2	1H
HW 5	11.1.2019	Math 340	3	2H
HW 11.5	11.20.2019	Math234	4	1.5H

7. Output Example

Case 1: the program directly tell you what you need to do next:

Out put example

Carry On !

The next thing you need to do is :

CS400: X5- team proposal

due at: 11.1.2019

Case 2: The program will provide a csv file that includes all the events and the information in the correct order. (sort the events based on due dates, then the priority.)

For example:

If the content of input csv file is:

Name	Due date	Introduction	Priority	Predicted time to finish
X5 team proposal	11.20.2019	CS 400	2	1H
HW 5	11.1.2019	Math 340	3	2H
HW 11.5	11.20.2019	Math234	4	1.5H

The content of output csv file should be:

Order	Name	Due date	Introduction	Priority	Predicted time to finish
1	HW 5	11.1.2019	Math 340	3	2H
2	HW 11.5	11.20.2019	Math234	4	1.5H
3	X5 team proposal	11.20.2019	CS 400	2	1H