

User Stories

1. Add new task (Who: As a user,
What: I want to add a new task
Why: so that I don't have to remember it)
2. Show task list
(As a user
I want to see my task
So I know what to do
2.1 Sort by date
2.2 Sort by project
3. Save & quit
(As a user
I want to save my list when I quit the app
So I can turn off the program without losing my data
4. Edit task
As a user
I want to be able to modify my task
So it remains accurate
4.1 Modify text
4.2 Mark as done
4.3 Remove

A model = a java object that stores data (usually only contains get & set methods)

What is a task?

An object that :

-has a task title

-a due date

-a status

-a project

Scenarios

Addendum: option (m) Main Menu will always be available, except when in the Main Menu already

1.Add a new task

(Starting conditions) Given that it's the 1st time I start the program,

(Test that can be verified) Then I see a menu with options and a request to Select choice

```
>> Welcome to ToDoLy
>> You have x tasks todo and Y tasks are done!
>> Pick an option:
>> (1) Add New Task
>> (2) Show Task List (by date or project)
>> (3) Edit Task (update, mark as done, remove
>> (4) Save and Quit)
>>
Select choice:
```

(Action) When user select **addNewTask (1)** (what will I see?) and press Enter

```
>> Welcome to ToDoLy
>> You have x tasks todo and Y tasks are done!
>> Pick an option:
>> (1) Add New Task
>> (2) Show Task List (by date or project)
>> (3) Save and Quit)
>> (4) Edit Task (update, mark as done, remove
>>
Select choice: 1
```

Then user will be asked to input newTitle

```
Input new Title:
```

When user has written the Title and pressed Enter

```
Input new Title: Buy apples
```

Then user will be asked for the due date

```
Input due date:
```

When user has input the due date and pressed Enter

```
Input due date: 2019-10-24
```

Then user will be asked to enter a Project name

```
Input Project name:
```

When user input the Project name and press Enter

```
Input Project name: Grocery Shopping
```

Then the task is created and automatically given a unique ID & default status as “to do”

Then Main Menu is shown and it shows I have 1 task to do & 0 task done

```
>> Welcome to ToDoLy
>> You have 1 tasks todo and 0 tasks are done!
>> Pick an option:
>> (1) Add New Task
>> (2) Show Task List (by date or project)
>> (3) Save and Quit)
>> (4) Edit Task (update, mark as done, remove
>>
```

2. Show task list

2.1 Sort by date

2.2 Sort by Project

Given that the program is running

Then user sees the Main menu with options

```
>> Welcome to ToDoLy
>> You have x tasks todo and Y tasks are done!
>> Pick an option:
>> (1) Add New Task
>> (2) Show Task List (by date or project)
>> (3) Edit Task (update, mark as done, remove
>> (4) Save and Quit)
>>
Select choice:
```

When user selects Show Task List and press Enter

```
>> Welcome to ToDoLy
>> You have x tasks todo and Y tasks are done!
>> Pick an option:
>> (1) Add New Task
>> (2) Show Task List (by date or project)
>> (3) Save and Quit)
>> (4) Edit Task (update, mark as done, remove
>>
Select choice: 2|
```

Then user will see a list of tasks already added, default sorted by input (ID) order

Then user will have 2 options: sort by date or by Project

```
1. Apples, 2019-10-24, Grocery shopping, To do.
2. Meat, 2020-10-24, Grocery shopping, To do.
3. Bacon, 2019-11-24, Grocery shopping, To do.
4. Doctor, 2019-10-24, Health, To do.
5. Höstfest, 2019-10-19, Social, To do.
|
>> (1) Sort by Due Date
>> (2) Sort by Project
>> Select choice:
```

When user selects Sort by Due date and press Enter

```
>> (1) Sort by Due Date
>> (2) Sort by Project
>> Select choice: 1
```

Then the tasks will be sorted by Due date (closest date first = ascending)

Then the user has 3 options: “sort by Date or Project” and Main menu

```
5. Höstfest, 2019-10-19, Social, todo.
1. Apples, 2019-10-24, Grocery shopping, todo.
4. Doctor, 2019-10-24, Health, todo.
3. Bacon, 2019-11-24, Grocery shopping, todo.
2. Meat, 2020-10-24, Grocery shopping, todo.

>> (1) Sort by Due Date
>> (2) Sort by Project
>> (3) Main menu
>> Select choice:
```

When user selects Sort by Project and press Enter

```
>> (1) Sort by Due Date
>> (2) Sort by Project
>> Select choice: 2
```

Then the tasks will be shown grouped in the Project they belong to alphabetically

Then the user has 3 options: “sort by Date or Project” and Main menu

```
1. Apples, 2019-10-24, Grocery shopping, To do.
2. Meat, 2020-10-24, Grocery shopping, To do.
3. Bacon, 2019-11-24, Grocery shopping, To do.
4. Doctor, 2019-10-24, Health, To do.
5. Höstfest, 2019-10-19, Social, To do.

>> (1) Sort by Due Date
>> (2) Sort by Project
>> (3) Main menu
>> Select choice:
```

3. Save & Quit

Given that the app is running

When user selects “Save & Quit” from the Main menu

```
>> Welcome to ToDoLy
>> You have 5 tasks to do and 0 tasks are done!
>> Pick an option:
>> (1) Add New Task
>> (2) Show Task List (by Due date or Project)
>> (3) Edit Task (update, mark as done, remove)
>> (4) Save and Quit

Select choice: 4
```

Then the current state of the tasks gets Saved automatically in a File

When user restarts the app

Then the tasks are in the same state as when user quit before

```
>> Welcome to ToDoLy
>> You have 5 tasks to do and 0 tasks are done!
>> Pick an option:
>> (1) Add New Task
>> (2) Show Task List (by Due date or Project)
>> (3) Edit Task (update, mark as done, remove)
>> (4) Save and Quit

Select choice:
```

4. Edit task

4.1 Modify text

4.2 Mark as done

4.3 Remove

Given that I am on the menu

When I select Edit task by entering the option 3 and pressing Enter

```
>> Welcome to ToDoLy
>> You have 5 tasks to do and 0 tasks are done!
>> Pick an option:
>> (1) Add New Task
>> (2) Show Task List (by Due date or Project)
>> (3) Edit Task (update, mark as done, remove)
>> (4) Save and Quit

Select choice: 3
```

Then the Task List is shown and the system requests input of task ID to edit

```
1. Apples, 2019-10-24, Grocery shopping, To do.
2. Meat, 2020-10-24, Grocery shopping, To do.
3. Bacon, 2019-11-24, Grocery shopping, To do.
4. Doctor, 2019-10-24, Health, To do.
5. Höstfest, 2019-10-19, Social, To do.

Select task ID:
```

When the user enters the task ID and presses Enter

```
1. Apples, 2019-10-24, Grocery shopping, To do.
2. Meat, 2020-10-24, Grocery shopping, To do.
3. Bacon, 2019-11-24, Grocery shopping, To do.
4. Doctor, 2019-10-24, Health, To do.
5. Høstfest, 2019-10-19, Social, To do.

Select task ID: 2
```

Then the full task is printed (title, due date, project, status)

Then they get 3 options (Modify, Mark as done, Remove)

```
2. Meat, 2020-10-24, Grocery shopping, To do.

>> (1) Modify
>> (2) Mark as done
>> (3) Remove
>> Select choice:
```

When user enters 1 and presses Enter

```
2. Meat, 2020-10-24, Grocery shopping, To do.

>> (1) Modify
>> (2) Mark as done
>> (3) Remove
>> Select choice: 1
```

Then user is given 3 options to be modified (Title, due date, Project)

```
2. Meat, 2020-10-24, Grocery shopping, To do.

>> (1) Title
>> (2) Due date
>> (3) Project
>> Select element to modify:
```

When the user enters 1 and presses Enter

```
2. Meat, 2020-10-24, Grocery shopping, To do.

>> (1) Title
>> (2) Due date
>> (3) Project
>> Select element to modify: 1
```

Then user can modify the Title by writing a new one

```
2. Meat, 2020-10-24, Grocery shopping, To do.
Modify Title:
```

Modify Title: Buy Meat

When the user press Enter

Then the Task is shown with modified title

Then user gets 3 choices + (b) Back + (m): (Title, due date, Project) and Main Menu

```
2. Buy Meat, 2020-10-24, Grocery shopping, To do.

>> (1) Title
>> (2) Due date
>> (3) Project

>> (b) Back
>> (m) Main Menu
>> Select choice:
```

When the user selects 2

Then user may modify Due date by manually inputting the new Date

```
2. Buy Meat, 2020-10-24, Grocery shopping, To do.
Modify Due Date:
```

```
2. Buy Meat, 2020-10-24, Grocery shopping, To do.  
Modify Due Date: 2019-10-24
```

When the user press Enter

Then the Task is shown with modified task with new Due Date

Then user gets 3 choices + (b) Back + (m): (Title, due date, Project) and Main Menu

```
2. Buy Meat, 2019-10-24, Grocery shopping, To do.  
  
>> (1) Title  
>> (2) Due date  
>> (3) Project  
  
>> (b) Back  
>> (m) Main Menu  
>> Select choice:
```

When user enters 3 and presses Enter

Then user may modify Project under which the task should be classified by writing the name of the new Project

```
2. Buy Meat, 2019-10-24, Grocery shopping, To do.  
Modify Project:
```

```
2. Buy Meat, 2019-10-24, Grocery shopping, To do.  
Modify Project: Go to Market
```

When the user press Enter

Then the List is shown with modified task in its new Project

Then the set of 3 options + (b) Back + (m): (Title, due date, Project) is available

```
2. Buy Meat, 2019-10-24, Go to Market, To do.  
  
>> (1) Modify  
>> (2) Mark as done  
>> (r) Remove  
  
>> (b) Back  
>> (m) Main Menu  
>> Select choice:
```

When the user press (b)

Then the set of 3 options + (b) + (m): (Modify, Mark as done, Remove) and Main Menu is available

```
2. Buy Meat, 2019-10-24, Go to Market, To do.  
  
>> (1) Modify  
>> (2) Mark as done  
>> (r) Remove  
  
>> (b) Back  
>> (m) Main Menu  
>> Select choice:
```

When user enters 2 and presses Enter

```
2. Buy Meat, 2019-10-24, Go to Market, To do.  
  
>> (1) Modify  
>> (2) Mark as done  
>> (r) Remove  
  
>> (b) Back  
>> (m) Main Menu  
>> Select choice: 2
```

Then user can modify the Status to become "Done"

When the user press Enter

Then the Task is shown with modified task with new Status

Then the set of 3 options (Modify, Mark as done, Remove) is available

```
2. Buy Meat, 2019-10-24, Go to Market, Done.  
  
>> (1) Modify  
>> (2) Mark as done  
>> (r) Remove  
  
>> (b) Back  
>> (m) Main Menu  
>> Select choice:
```

When user enters (r) and presses Enter

Then Task List is shown without the Removed task

Then user gets 2 choices: Select another Task by its ID and Main Menu (= brings the user back to the Main menu)

```
1. Apples, 2019-10-24, Grocery shopping  
3. Bacon, 2019-11-24, Grocery shopping  
4. Doctor, 2019-10-24, Health  
5. Höstfest, 2019-10-19, Social  
  
>> (m) Main Menu  
>> Select task ID:
```