

Project Name
“Todo List” Project

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October 2020

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Introduction

Project Title: ToDo list

Problem Statement:

The problem statement of this project is “to build a **“ToDo List application”**”.

Project Objectives:

The project is a “ToDo List” project. In this project, a “ToDo List” application will be developed. This program will be coded in Java programming language. With this application, the following objects are determined:

- to create **new tasks**,
- assign them **a title** and **due date**,
- and **choose a project** for that task to belong to.
- They will need to use **a text based** user interface via the command-line.
- the user should be able to also **edit**,
- **mark as done** or **remove** tasks.
- They can also **quit** and **save** the current task **list to file**,
- **restart the application** with the former state restored.

Project Scope:

The application will be displayed on the screen by adding the project name, date, task and status specified for the “ToDo List” and can be saved to the file if desired. Save lists can be viewed, sorted, modified or deleted.

Goals

The goals of the project are follows:

- Model a task with **a task title, due date, status and project**
- Display a **collection of tasks** that **can be sorted** both **by date and project**
- Support the ability **to add, edit, mark as done, and remove tasks**
- Support **a text-based user interface**
- **Load and save task list to file**
- **other creative features**

Methods

- Research
- Analyze
- Design

Common Impact/Added Value

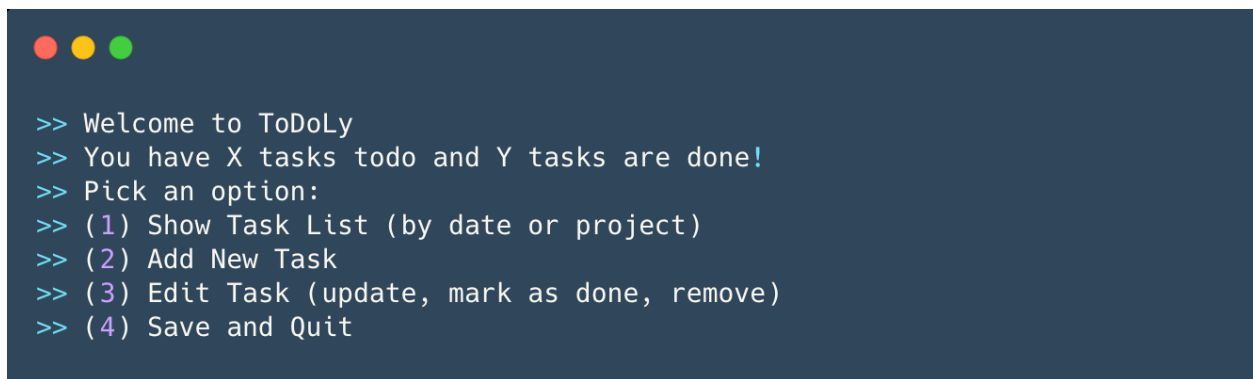
The application is important for learning programming. With this application, the most basic elements of object oriented programming will be reinforced. In addition, it can be developed later and different people can use this application. More importantly, it will provide insight and inspiration in research and learning in different people.

Project Plan

“Todo List” Project Specification

Project Brief

Your task is to build a **todo list application**. The application will allow a user to create new tasks, assign them a title and due date, and choose a project for that task to belong to. They will need to use a text based user interface via the command-line (hint: see BlueJ World of Zuul project for some ideas on this). Once they are using the application, the user should be able to also edit, mark as done or remove tasks. They can also quit and save the current task list to file, and then restart the application with the former state restored. The interface should look similar to the mockup below:

A terminal window mockup with a dark blue background and light blue text. At the top left, there are three colored circles (red, yellow, green) representing window control buttons. The text inside the terminal shows a welcome message, a status report, and a list of options for the user to choose from.

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

Requirements

The solution must achieve the following requirements: ▶ Model a task with a task title, due date, status and project ▶ Display a collection of tasks that can be sorted both by date and project ▶ Support the ability to add, edit, mark as done, and remove tasks ▶ Support a text-based user interface ▶ Load and save task list to file The solution may also include other creative features at your discretion in case you wish to show some flair. (but this will not affect the default evaluation. See Requirement checklist file)

Project Brief

Your task is to build a **todo list application**. The application will allow a user

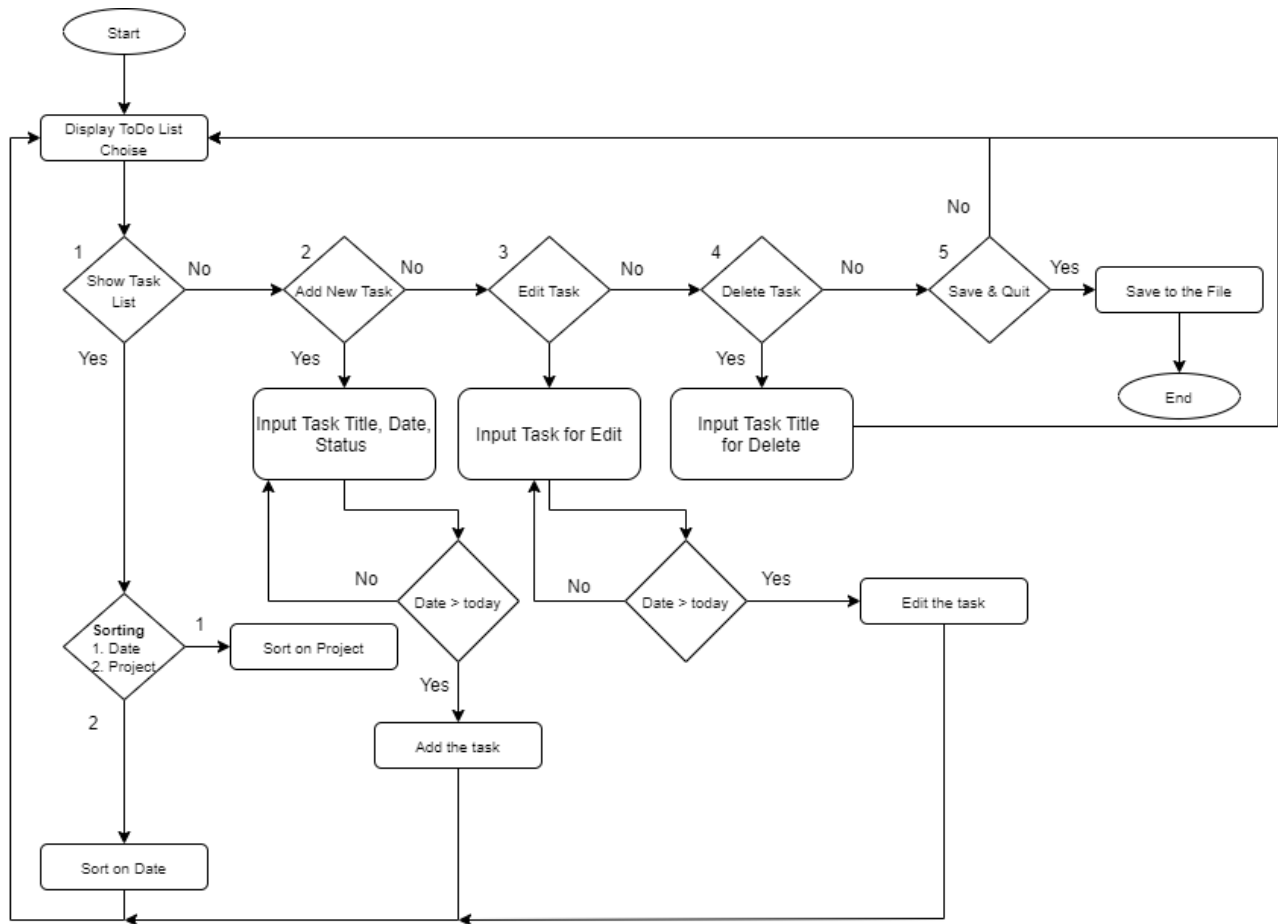
- to create **new tasks**,
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Requirements

The solution must achieve the following requirements:

- Model a task with **a task title, due date, status and project**
- Display a **collection of tasks** that **can be sorted** both **by date and project**
- Support the ability **to add, edit, mark as done**, and **remove tasks**
- Support **a text-based user interface**
- **Load and save task list to file**
- The solution may also include **other creative features**

ToDo List Flow Diagram



UML Diagram



Time Table (Gannt Chart): Excel file.

User Interface

Welcome to ToDoList
You have 0 tasks todo and 0 tasks are done!
Pick an Option:
(1) Show task list (by date or project)
(2) Add New Task
(3) Edit Task (Update, Mark as Done)
(4) Remove Task
(5) Save and Quit

Your Option:

Welcome to ToDoList
You have 0 tasks todo and 0 tasks are done!
Pick an Option:
(1) Show task list (by date or project)
(2) Add New Task
(3) Edit Task (Update, Mark as Done)
(4) Remove Task
(5) Save and Quit

Your Option: 1

You don't have any task for ToDo

Welcome to ToDoList
You have 0 tasks todo and 0 tasks are done!
Pick an Option:
(1) Show task list (by date or project)
(2) Add New Task
(3) Edit Task (Update, Mark as Done)
(4) Remove Task
(5) Save and Quit

Your Option: 2
Input Task Title:
Input Project:
Input Task Date:
Input Task Status:

Your task added

Welcome to ToDoList
You have 1 tasks todo and 0 tasks are done!
Pick an Option:
(1) Show task list (by date or project)
(2) Add New Task
(3) Edit Task (Update, Mark as Done)
(4) Remove Task
(5) Save and Quit

Your Option: 3

Edit Task:
Input Task Title:

You task edited

Welcome to ToDoList
You have 1 tasks todo and 0 tasks are done!
Pick an Option:
(1) Show task list (by date or project)
(2) Add New Task
(3) Edit Task (Update, Mark as Done)
(4) Remove Task
(5) Save and Quit

Your Option: 1

1. Sort by Date
2. Sort by Project

Select number: