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Subject : Basic of Programming 3

HW specification ToDoList

Description

The purpose of this application is task management. A user can store tasks to this todo-list-application, and display them with several views. A user can input “Title of the task ,” “short description of the task,” “Deadline date of the task”, “Priority of the task(high, medium, low)”, “Category of the task”, “status of the task(completed or uncompleted)”. The tasks are saved in a file name by serialization. A user can view a task-list from the Display menu bar button, and he/she can choose view mode from 4 options; “Category(this is default),” “Deadline,” “Priority,” and “Completed tasks.” Also, the user can choose recurring events which can decide frequency and until when the user wants to repeat.

Classes and Functions

Name of the class: Task implements Serializable

Import

import java.io.Serializable;
import java.time.LocalDate;

Attibutes

LocalDate taskDate;
String taskTitle;
String taskDescription;
enum taskPriority{High, Medium, Low};
String[] taskCategory;
boolean isDone;

Methods

Task(String date, String title, String descrip, enum p, String[] category, boolean d){//change String → Dates};

Name of the class: RecurringEvents extends Task

Attributes

LocalDate untilDate; //(Until Y date)
int frequency; //(Every X days.)

Methods

RecurringEvents(String date, String title, String descrip, enum p, String[] category, boolean d, String until Date, int frequency){//change String → Dates};

Name of the class: TaskList

Import

import java.util.ArrayList;
import java.util.Iterator;

import java.util.List;

Attributes

private ArrayList list4task <Task> = new ArrayList<Task>();

Methods

public void addNew(){};

public void delete(){};

public void modify(){};

Name of the class: Main

//This class is for main class,

Attributes

Methods

Name of the class: Display

Attributes

Task tmp;

Methods

Display(Task t){};

public void displayCategory(){}

public void displayDate(){}

public void displayPriority(){}

public void displayCompleted(){}

Name of the class: TaskFile

Import

java.io.FileOutputStream;

java.io.ObjectOutputStream;

Attributes

Task tmp;

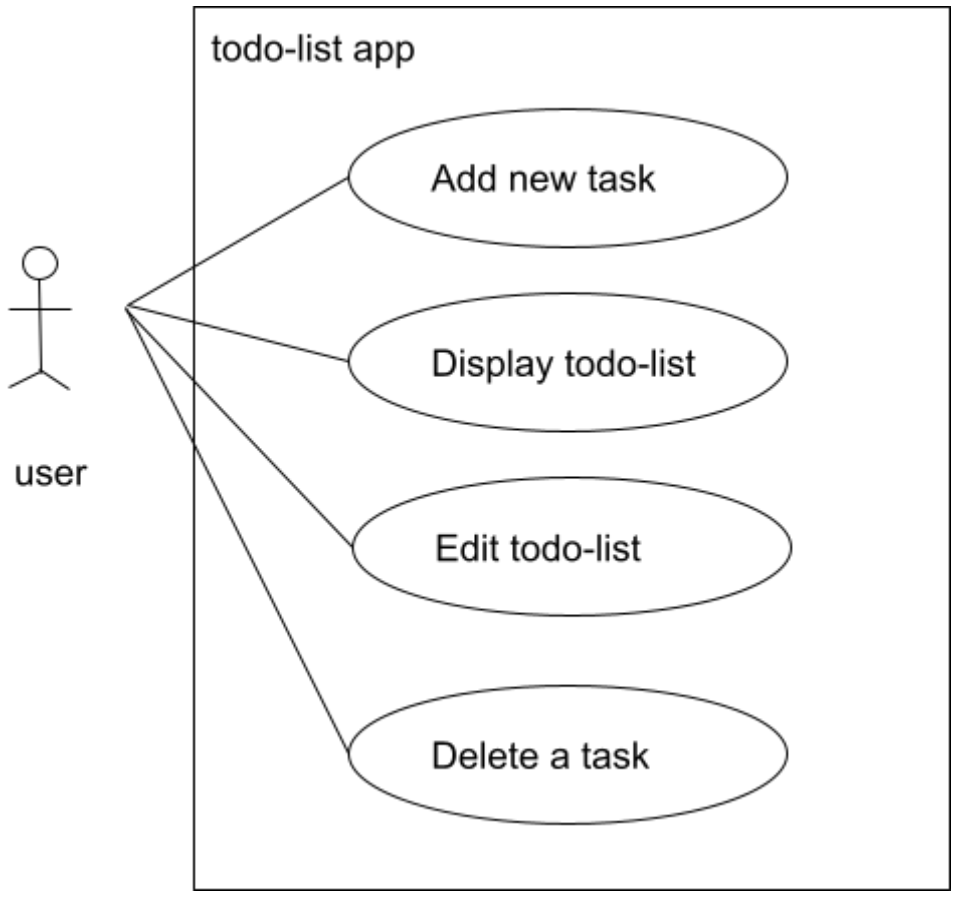
Methods

File(Task t){};

public void serialize(){};

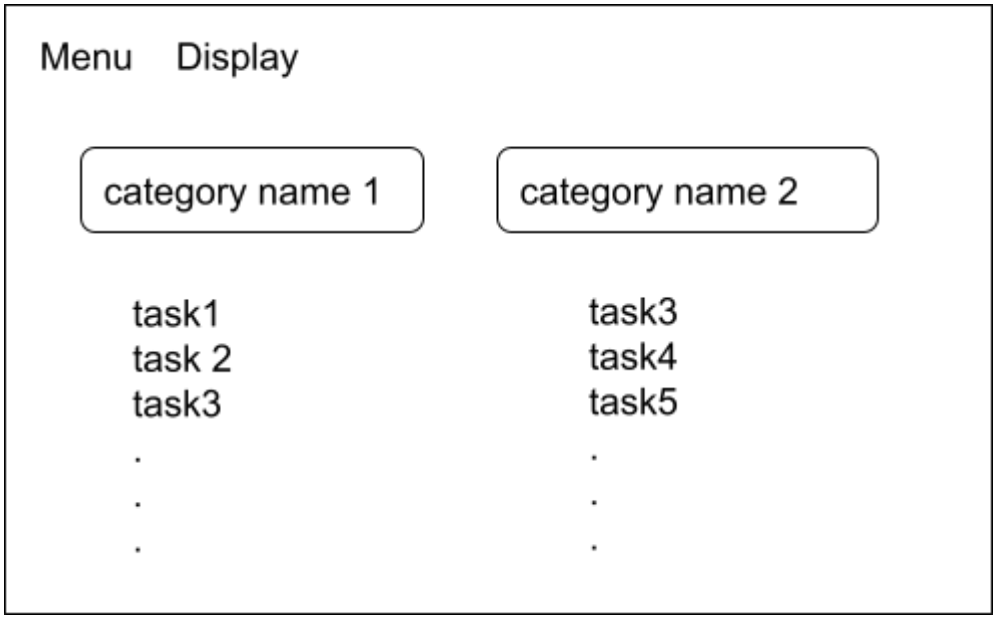
public void deserialize(){};

User Case Diagram

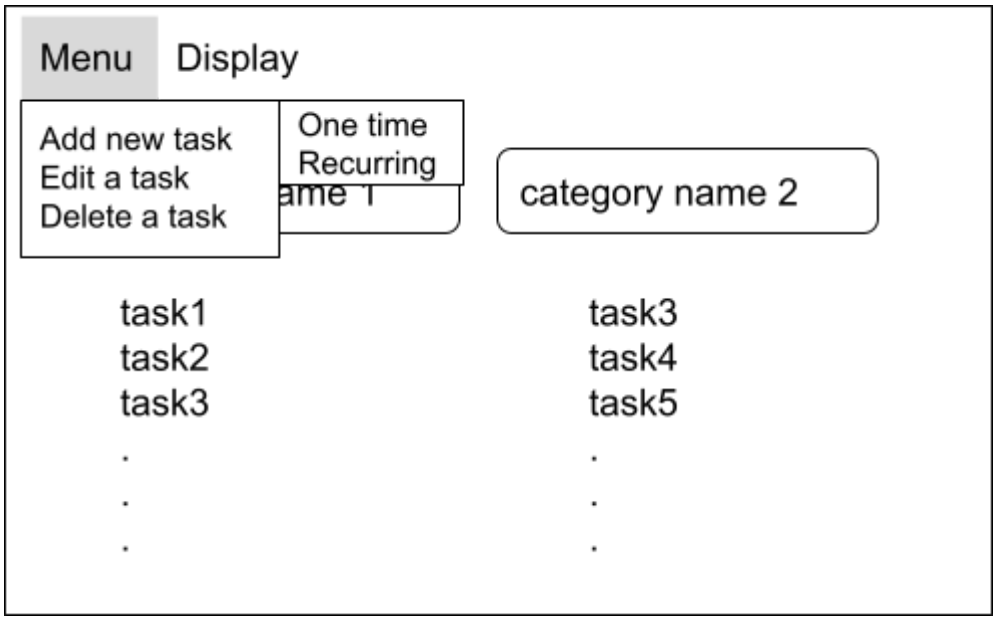


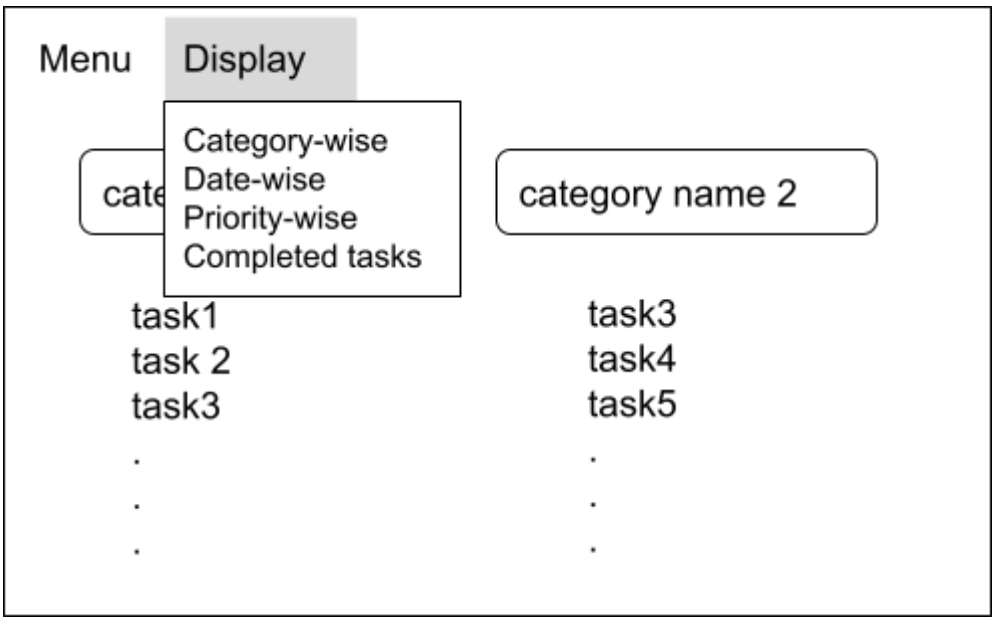
GUI

Main menu

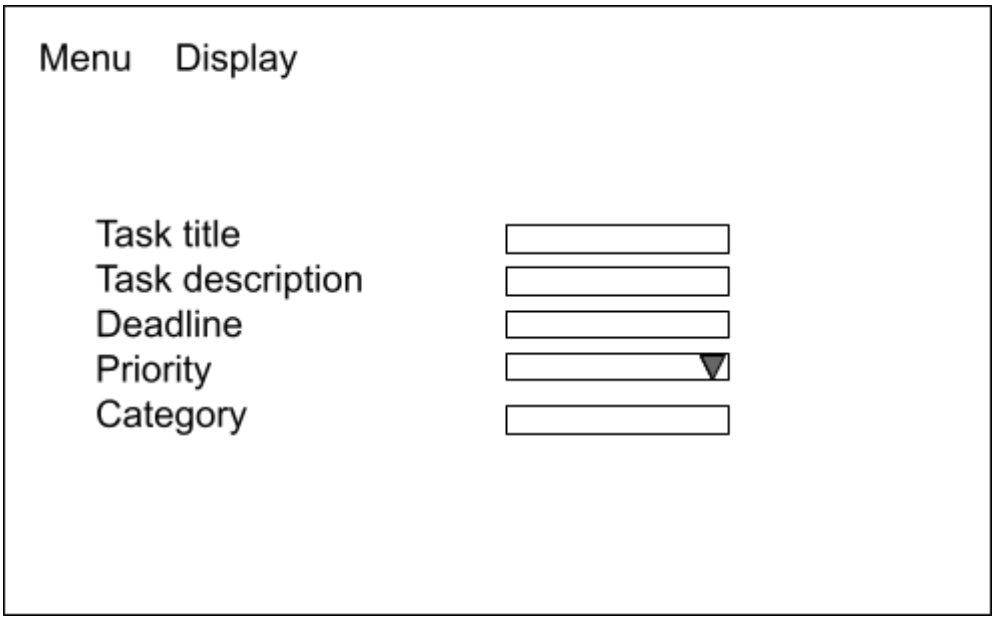


Menu bar

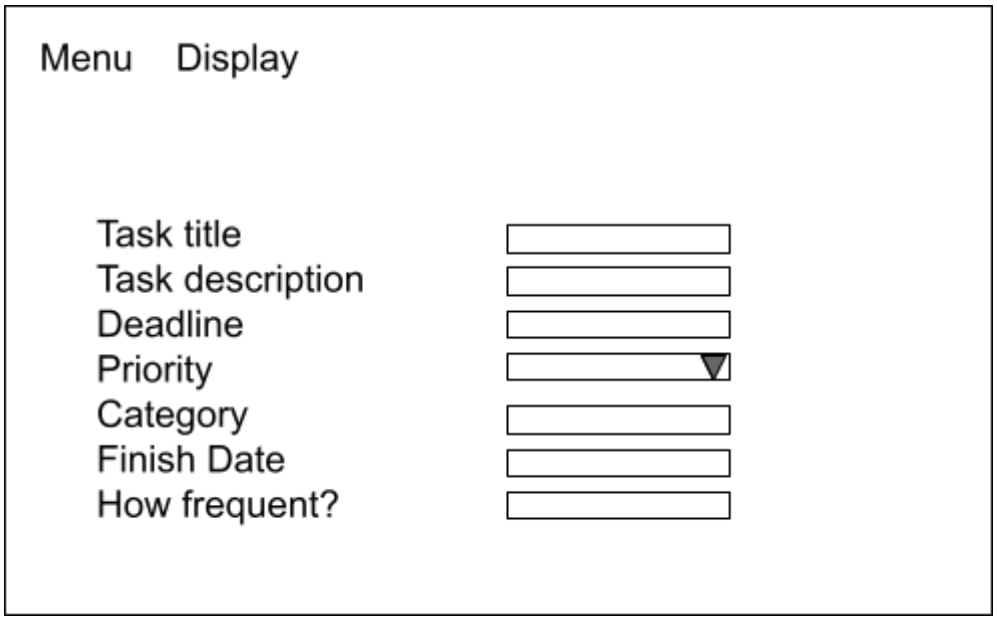




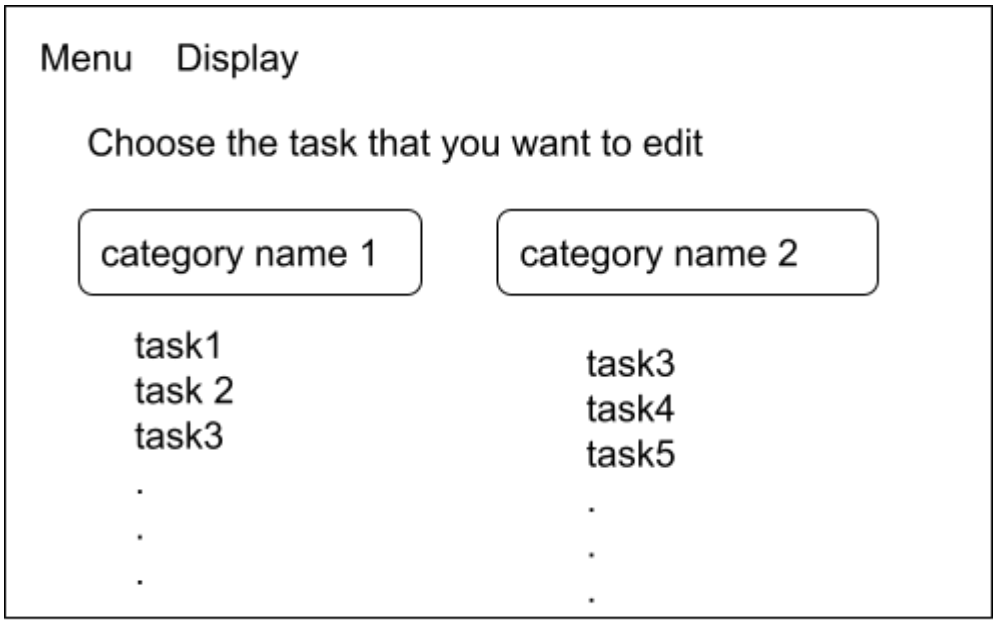
Menu → Add new task → One time



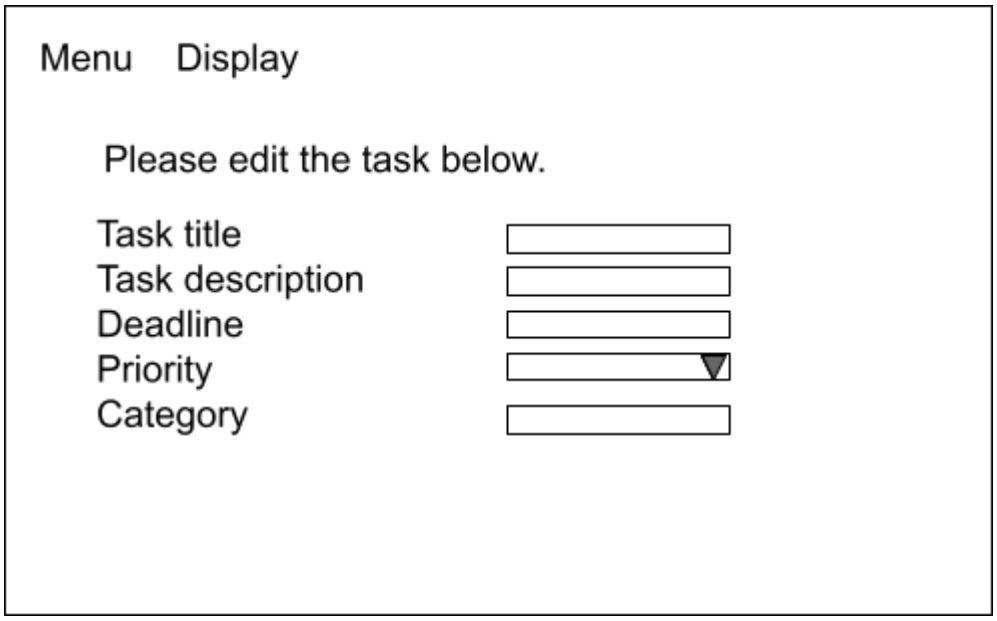
Menu → Add a new task → Recurring



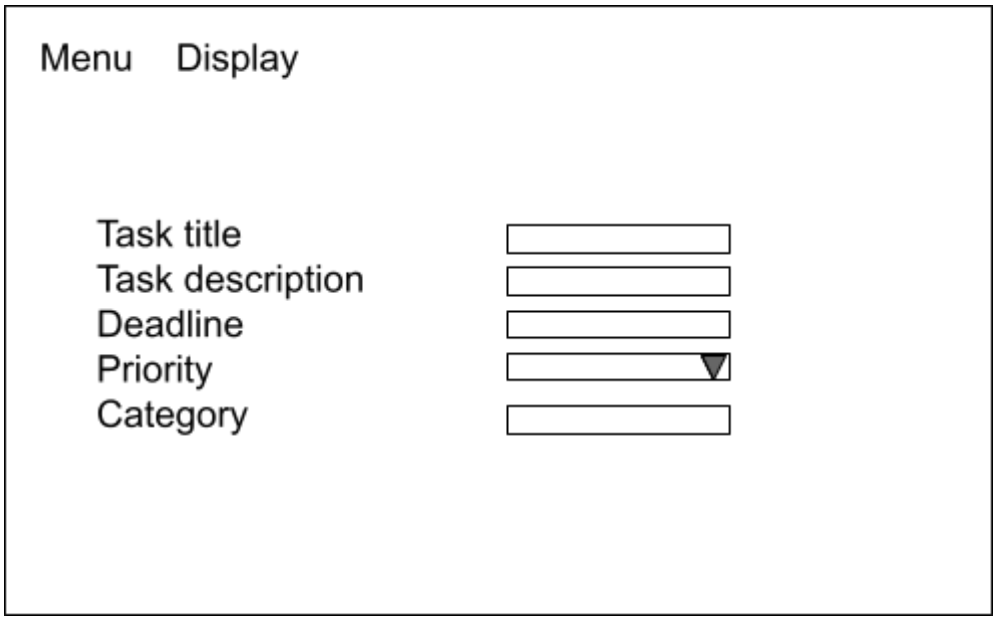
Menu → Edit a task



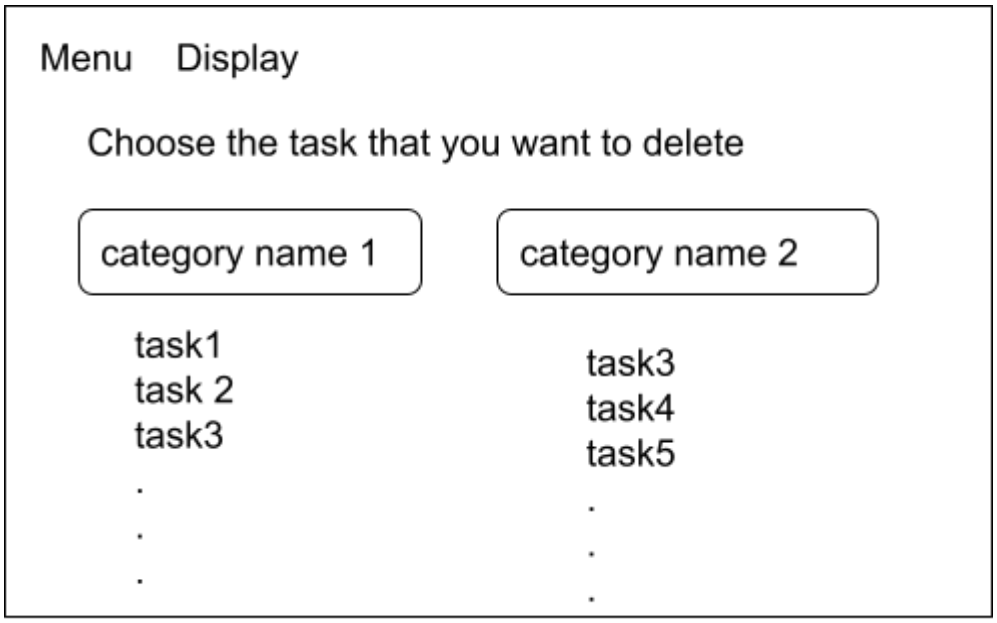
Menu → Edit a task → choose the task



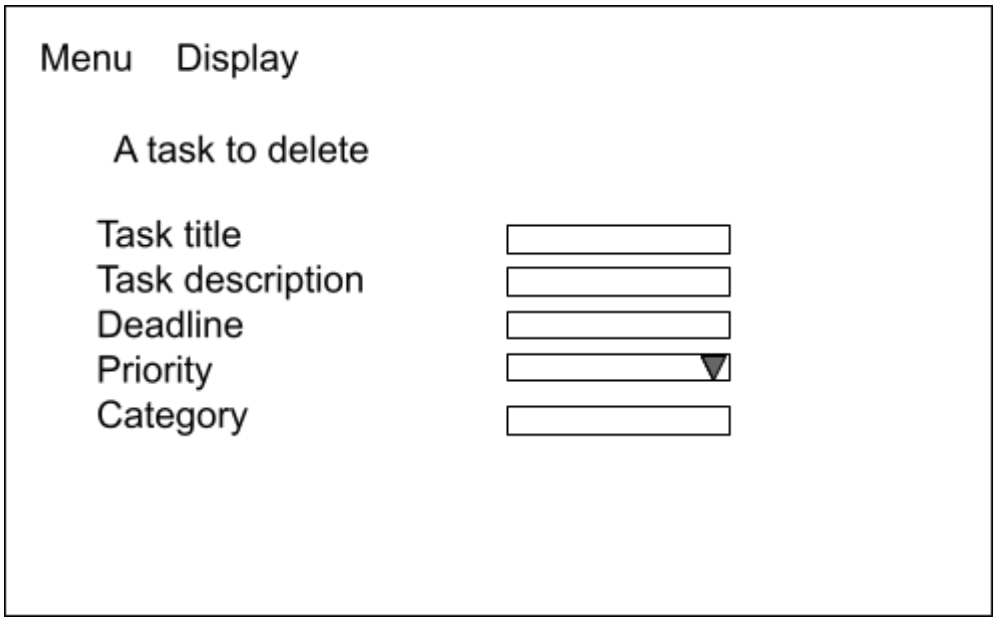
Menu → edit task → choose one task

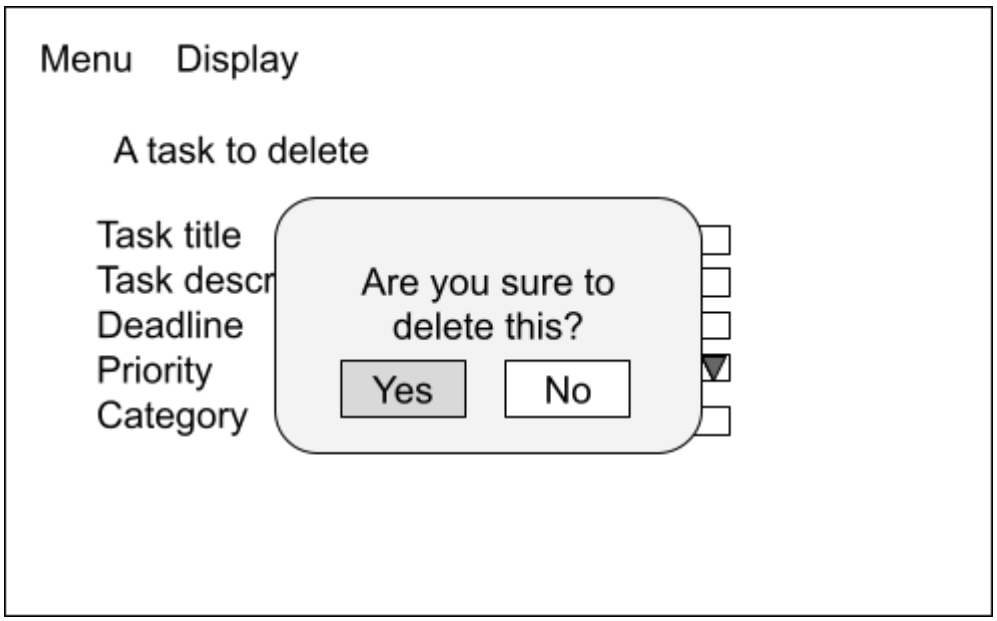


Menu → Delete a task



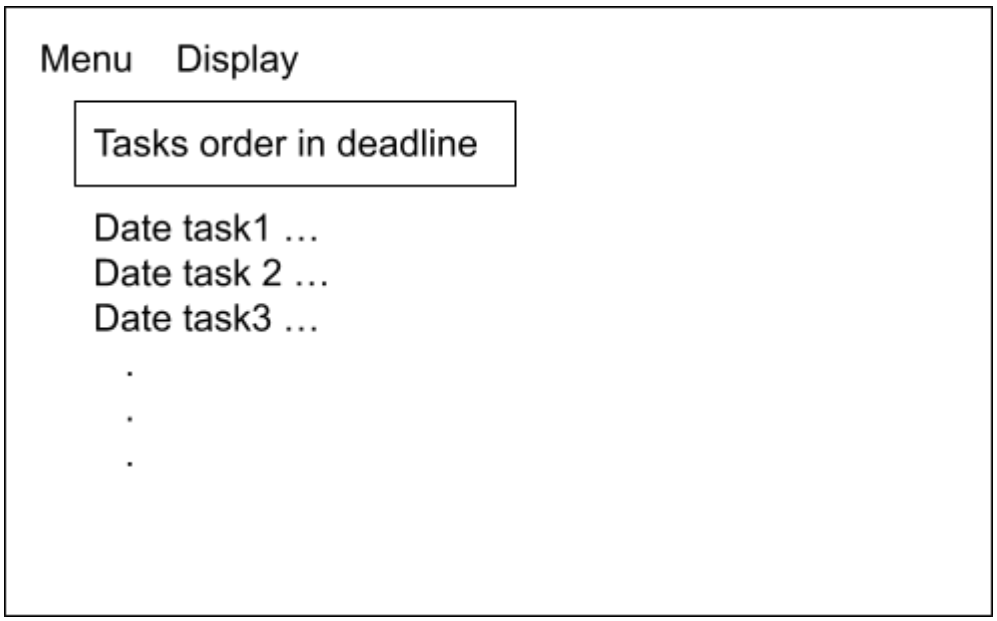
After you choose the task that you want to delete



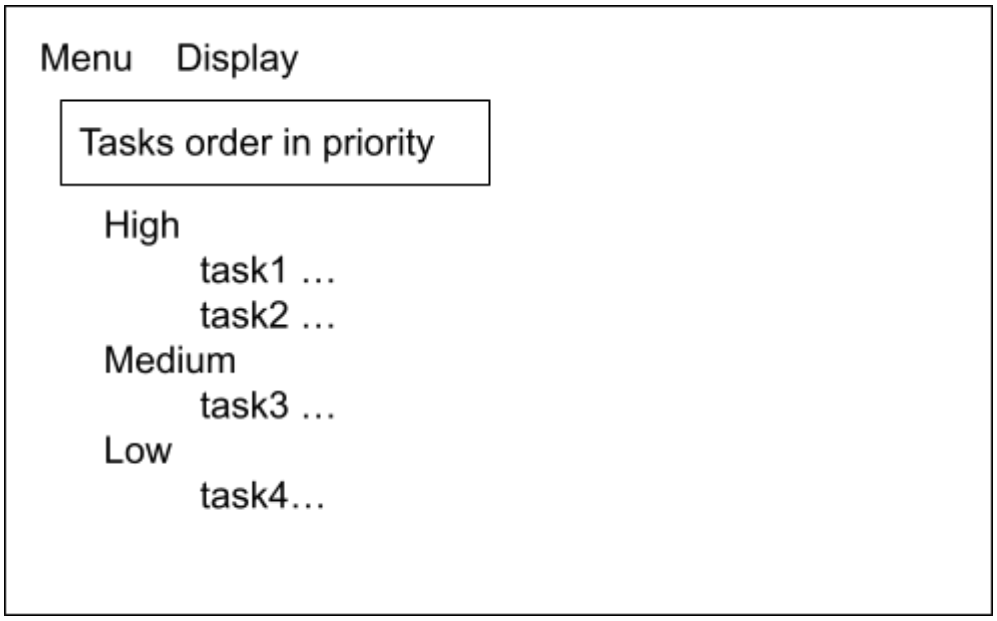


Display

Display → Date order



Display → priority order



Display → completed tasks order