<https://github.com/Abie10323298/PART2.git>

# CLASS EASYKANBAN

package part2;

import javax.swing.JOptionPane;

import java.util.ArrayList;

public class Easykanban {

// Getter for tasks (needed for unit tests)

public ArrayList<Task> getTasks() {

return tasks;

}

private ArrayList<Task> tasks;

public Easykanban() {

tasks = new ArrayList<>();

}

// Method to add a task

public void addTask(Task task) {

tasks.add(task);

}

// Method to display all tasks

public void displayAllTasks() {

if (tasks.isEmpty()) {

JOptionPane.showMessageDialog(null, "No tasks available.");

} else {

StringBuilder allTasksDetails = new StringBuilder();

for (Task task : tasks) {

allTasksDetails.append(task.toString()).append("\n\n");

}

JOptionPane.showMessageDialog(null, allTasksDetails.toString());

}

}

// Method to calculate total duration of all tasks

public int calculateTotalDuration() {

int totalDuration = 0;

for (Task task : tasks) {

totalDuration += task.getDuration();

}

return totalDuration;

}

// Method to display welcome message and menu

public void displayWelcomeMessageAndMenu() {

JOptionPane.showMessageDialog(null, "Welcome to EasyKanban");

int option;

do {

option = Integer.parseInt(JOptionPane.showInputDialog("Choose an option:\n" +

"1. Add tasks\n" +

"2. Show report\n" +

"3. Display all tasks\n" +

"4. Display total duration\n" +

"5. Quit"));

switch (option) {

case 1:

addTasks();

break;

case 2:

showReport();

break;

case 3:

displayAllTasks();

break;

case 4:

displayTotalDuration();

break;

case 5:

JOptionPane.showMessageDialog(null, "Exiting EasyKanban. Goodbye!");

break;

default:

JOptionPane.showMessageDialog(null, "Invalid option. Please choose again.");

}

} while (option != 5);

}

// Method to add tasks

public void addTasks() {

int numTasks = Integer.parseInt(JOptionPane.showInputDialog("Enter the number of tasks you wish to enter:"));

for (int i = 0; i < numTasks; i++) {

String taskStatus = JOptionPane.showInputDialog("Enter task status:");

String developerDetails = JOptionPane.showInputDialog("Enter developer details:");

int taskNumber = Integer.parseInt(JOptionPane.showInputDialog("Enter task number:"));

String taskName = JOptionPane.showInputDialog("Enter task name:");

String taskDescription = JOptionPane.showInputDialog("Enter task description:");

String taskID = JOptionPane.showInputDialog("Enter task ID:");

int duration = Integer.parseInt(JOptionPane.showInputDialog("Enter duration:"));

Task task = new Task(taskStatus, developerDetails, taskNumber, taskName, taskDescription, taskID, duration);

addTask(task);

JOptionPane.showMessageDialog(null, "Task added successfully!");

}

}

// Method to show report

public void showReport() {

JOptionPane.showMessageDialog(null, "Coming Soon");

}

// Method to display total duration

public void displayTotalDuration() {

int totalDuration = calculateTotalDuration();

JOptionPane.showMessageDialog(null, "Total duration of all tasks: " + totalDuration + " hours");

}

public static void main(String[] args) {

Easykanban easyKanban = new Easykanban();

easyKanban.displayWelcomeMessageAndMenu();

}

}

# TASK CLASS

package part2;

public class Task {

private String taskStatus;

private String developerDetails;

private int taskNumber;

private String taskName;

private String taskDescription;

private String taskID;

private int duration;

// Constructor

public Task(String taskStatus, String developerDetails, int taskNumber, String taskName, String taskDescription, String taskID, int duration) {

this.taskStatus = taskStatus;

this.developerDetails = developerDetails;

this.taskNumber = taskNumber;

this.taskName = taskName;

this.taskDescription = taskDescription;

this.taskID = taskID;

this.duration = duration;

}

// Getters and setters

public String getTaskStatus() {

return taskStatus;

}

public void setTaskStatus(String taskStatus) {

this.taskStatus = taskStatus;

}

public String getDeveloperDetails() {

return developerDetails;

}

public void setDeveloperDetails(String developerDetails) {

this.developerDetails = developerDetails;

}

public int getTaskNumber() {

return taskNumber;

}

public void setTaskNumber(int taskNumber) {

this.taskNumber = taskNumber;

}

public String getTaskName() {

return taskName;

}

public void setTaskName(String taskName) {

this.taskName = taskName;

}

public String getTaskDescription() {

return taskDescription;

}

public void setTaskDescription(String taskDescription) {

this.taskDescription = taskDescription;

}

public String getTaskID() {

return taskID;

}

public void setTaskID(String taskID) {

this.taskID = taskID;

}

public int getDuration() {

return duration;

}

public void setDuration(int duration) {

this.duration = duration;

}

// Method to display task details

@Override

public String toString() {

return "Task Status: " + taskStatus + "\n" +

"Developer Details: " + developerDetails + "\n" +

"Task Number: " + taskNumber + "\n" +

"Task Name: " + taskName + "\n" +

"Task Description: " + taskDescription + "\n" +

"Task ID: " + taskID + "\n" +

"Duration: " + duration + " hours";

}

}