MULTI-TASK APPLICATION

IT 3003 - Team 11

Team: 11

Team Name: Error 404

Leader Name: Inuka Chandipa Sathsara Rathnappuli

Leader Index No: 15652

Leader Contact No: 0772169701

Your team Project: Multi-Task Application(Dictionary Application and To-Do List Application.)

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Introduction

Welcome to the Multi-Tasking App, a versatile and efficient tool designed to streamline your daily activities with its two powerful utility features. Crafted using Java programming and fortified with a MySQL database, this app is a valuable companion, especially for students studying from the comfort of their homes. By amalgamating a simple dictionary and an intuitive to-do list, it empowers students to create their own custom dictionary and effectively manage their day-to-day tasks.

Following are the list of our objectives for this application.

- ***Time-Saving Convenience:***

  The Multi-tasking App is your time-saving companion, bringing together essential features under one roof, eliminating the need to juggle between multiple apps.

- ***Educational Empowerment:***

  Tailored for students, this app simplifies their learning journey. The integrated dictionary allows users to effortlessly search, add, update, and delete words. Suggested words are readily available, removing the need for precise word knowledge.

- ***Effortless Task Management:***

  With the to-do list, users can set goals, assign due dates, and track work progress efficiently. All activities are conveniently displayed in a single table, ensuring that no task is overlooked.

- ***Streamlined Functionality:***

  Easily switch between the dictionary and the to-do list using a simple home key, ensuring a seamless and intuitive user experience.

- ***User-Friendly Interface:***

  The Multi-Tasking App boasts a user-friendly interface that simplifies every interaction, making it a breeze to perform tasks relevant to this app. Say goodbye to complexity and embrace efficiency.

  Experience the power of two essential tools in one app with the Multi-Tasking App. Simplify your life, enhance your productivity, and stay organized like never before.

Features and Functionalities of the Application

Main Window:

- *Choose Preferred App:* The main window serves as the command center, allowing users to seamlessly toggle between the two powerful applications: the Dictionary Application and the To-Do List Application.

Dictionary Application:

- *Search Words:* Say goodbye to cumbersome spelling searches. Our intelligent search box suggests words, ensuring you find the right term effortlessly.
- *Add Words and Their Meanings:* Empower yourself with the ability to expand your dictionary by adding new words or enriching existing definitions.
- *Delete Words and Their Meanings:* Keep your dictionary relevant by removing unwanted or outdated words with just a few taps.
- *Update Words and Their Meanings:* Edit and enhance word definitions on the fly. Correct inaccuracies or contribute new information seamlessly.
- *Search Result View:* The search results are neatly organized in a table, presenting searched words alongside their meanings for quick and convenient reference.

To-Do List Application:

- *Add Task:* Structure your day by adding tasks to the application, helping you maintain a clear overview of your commitments.
- *Search Task:* Find specific tasks effortlessly by searching using task index, task name, or task status, ensuring your to-do list stays organized.
- *Delete Task:* Remove completed or no longer relevant tasks with ease by searching for them using their index.
- *Update Task:* Tasks evolve, and so should your to-do list. Modify and update task details by searching for the specific task index.
- *View Task:* Gain valuable insights into your daily agenda. All tasks are displayed within the app, complete with task IDs, due dates, and task statuses, keeping you on top of your schedule.

Switch Between Apps:

- *Switch Between Apps:* Navigate seamlessly between the two applications with the simple press of the "HOME" button, ensuring a smooth transition between expanding your vocabulary and managing your tasks.

The Multi-Task Application is your one-stop solution for efficient multitasking. Whether you're studying, working, or organizing your personal life, this app empowers you to do more with less effort. Elevate your productivity, stay organized, and simplify your daily tasks with the Multi-Task Application today.

Class Diagram

A class diagram for the multi-task app can visually represent the structure of the application, the relationships between classes, and how data is stored and manipulated. Here's a simplified class diagram based on the provided information:
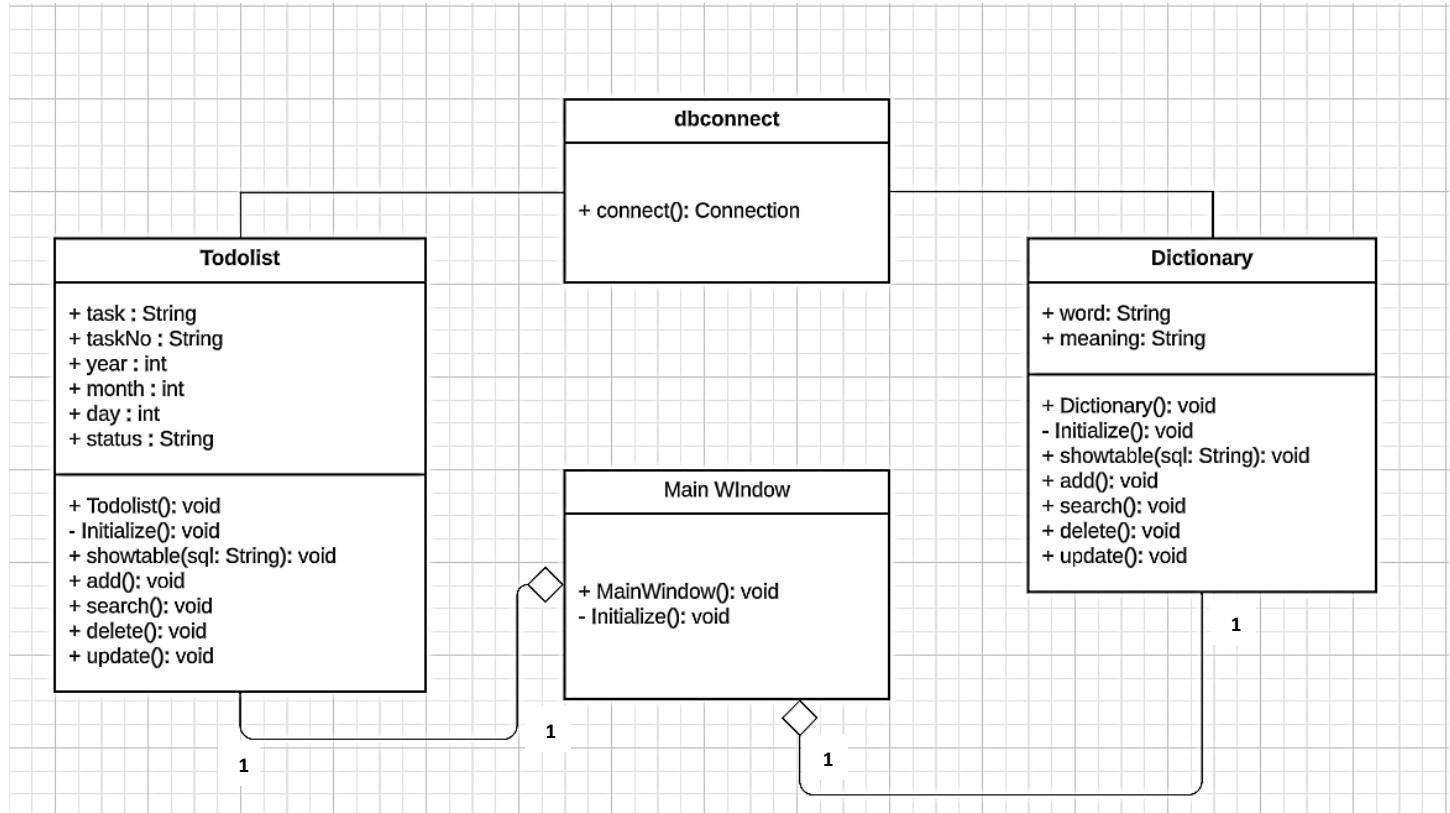

Figure 1- Class Diagram for Multi-Tasking Application

Use Case Diagram

A use case diagram for the Multi-Tasking app illustrates the various interactions between the users and the system. Use case diagrams focus on the functionality provided by the system from the user's perspective. Below is a simplified use case diagram for the Multi-Tasking app:
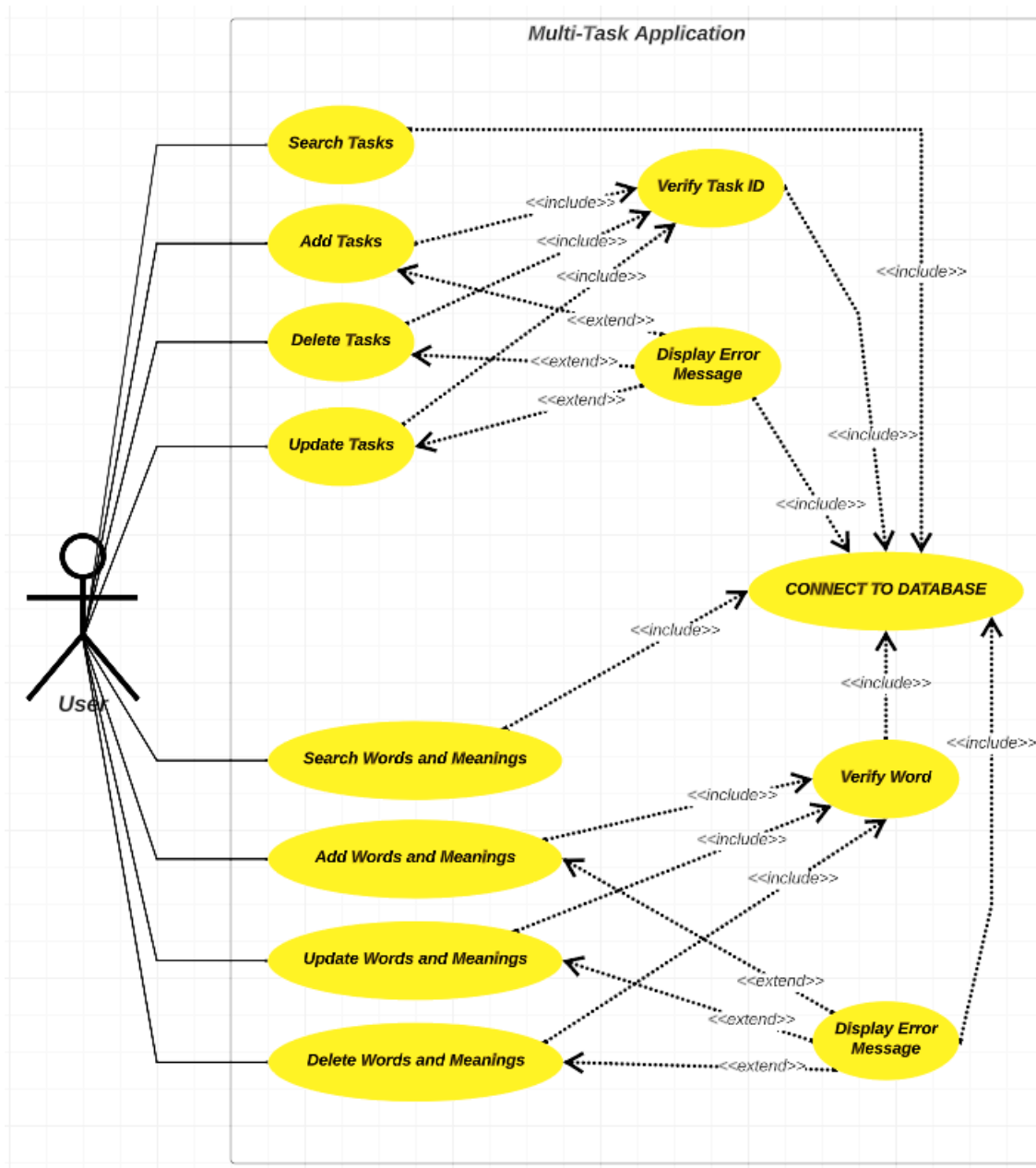

Figure 2 - Use Class Diagram for Multi-Tasking Application

Group Members

s15367 - Lakshitha P. V. N.

s15360 - Jayasekara J. H. P. S. C

s15765 - Piyasara K. K.

s15652 - Rathnappuli I. C. S.

s15357 - Hapuarachchi R. L.

s15550 - Piumika B. M. I.

s15606 - Dassanayake D. A. S. D.

s15610 - Dharmatilake R.S.M.H.D.N.K.

s15430 - Marasinghe M. M. C. S. S.

s15445 - Gimhan K. A. P.