NVISION

Java miniproject

[You can add an abstract or other key statement here. An abstract is typically a short summary of the document content.]

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# Abstract

### // one-line summary

## motivation

// edit

## PUrpose

// edit.

// some shit

# Software Used

## Source code

* Backend: Java (JDK v1.8)
* Frontend: Java (Swing)
* Version control: GitHub

## EXECUTION

* IDE: Eclipse (v2018-09)
* Command Prompt on Windows 10

The references used for the project are listed under the *Bibliography* header in this document.

# Software and Code

## GITHUB REPOSITORY

The project can be found at: <https://github.com/VidhiRambhia/JAVA_project.git>

The main directory consists of:

* **.git** (folder)
* **.metadata** (folder)
* **.recommenders (**folder)
* **Final\_Project** (folder) – Main implementation:

1. src (folder) – Has all the images, .java, and .class files
2. bin (folder) – Contains post-compilation elements
3. NVision – Documentation of the project

* **BackUp** (folder with individual folders ToDo and OnlineTest)
* **Code of Conduct** (MD file) – Lays out the GitHub etiquette concerning the project
* **README** (MD file) – An overview of the GitHub repository

The application can be run by running the file FirstPage.java in either Command Prompt or an IDE (preferably the same as was used while designing).

## EXISTING FEATURES

### The application, as of on 13th November 2018, works with the following facets fully implemented:

* **Main screen**  
  Introduces the application. Offers the user to either take a quiz or list down tasks for the day.
* **An Interactive Quiz Session**There are four subjects, that have a set questionnaire:

1. Java
2. DLD
3. Data Structures
4. EVS

The questions may be bookmarked for reference. Such questions may be revisited once till the quiz is submitted.

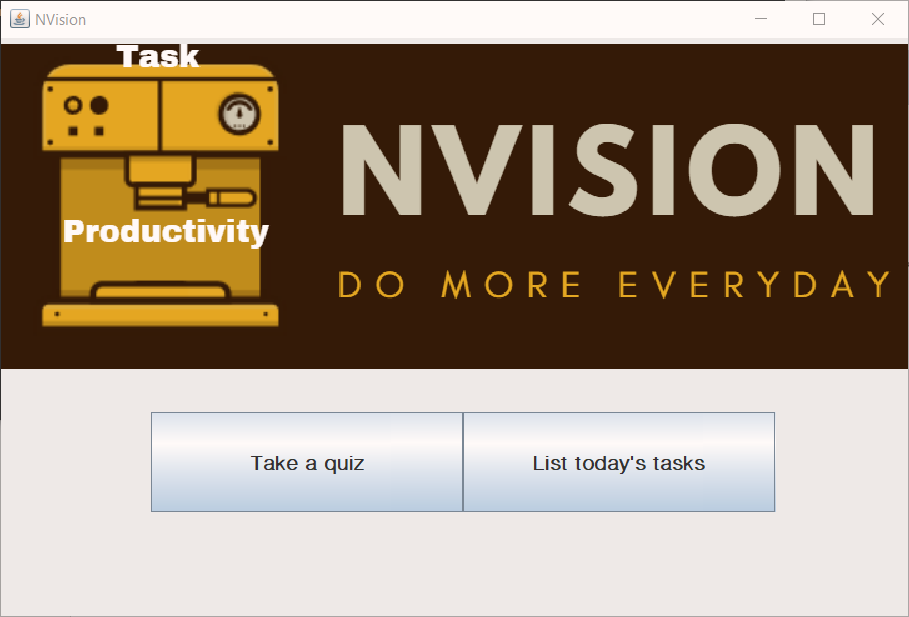
At the end of the session, the user gets to know his final score. Thus helping him stay up-to-date with his academic curriculum.

* **To-Do List**Three tasks can be listed. Once a task is marked as done, it is cleared and a new task may be added in its place. The cycle continues as long as the user operates on this keeping the frame open.

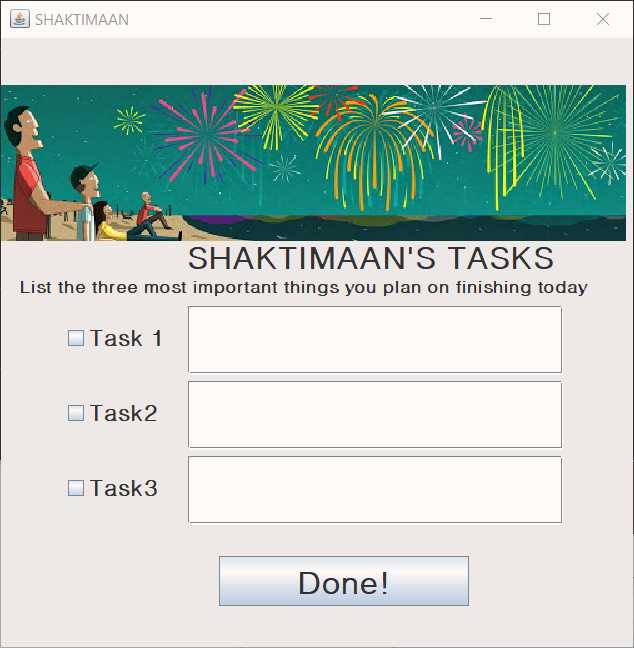
Frames for To-Do Lists for multiple users can be generated with each run. All such frames function independently of each other.

# Use and Demo

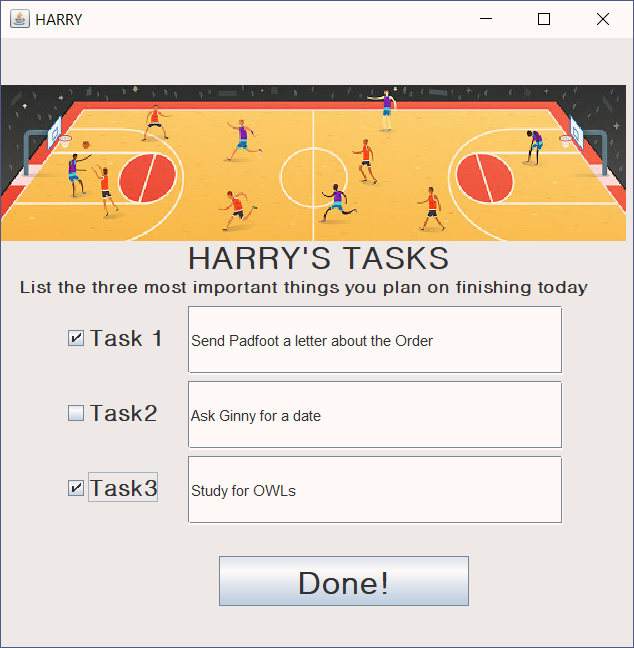
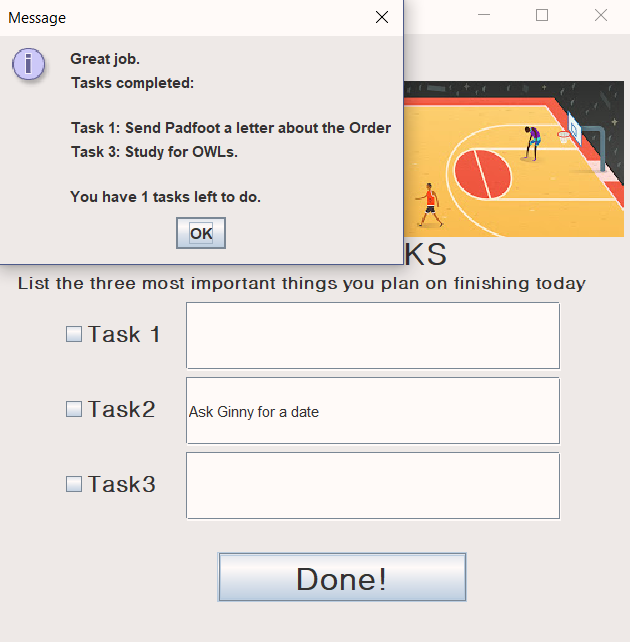
The application opens on the Navigator Page. ‘Take a quiz’ and ‘List today’s tasks’, on clicking, redirect to the quiz menu and To-Do List respectively.



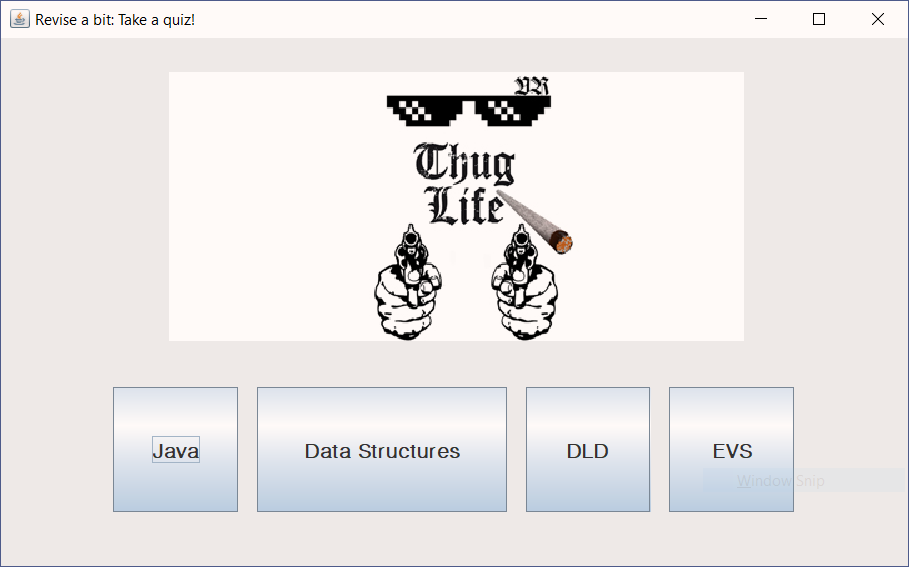
On selecting the second option, a prompt for entering a name is displayed. The name so entered appears as the header on the list of the new To-Do List. An empty To-Do List looks like this:



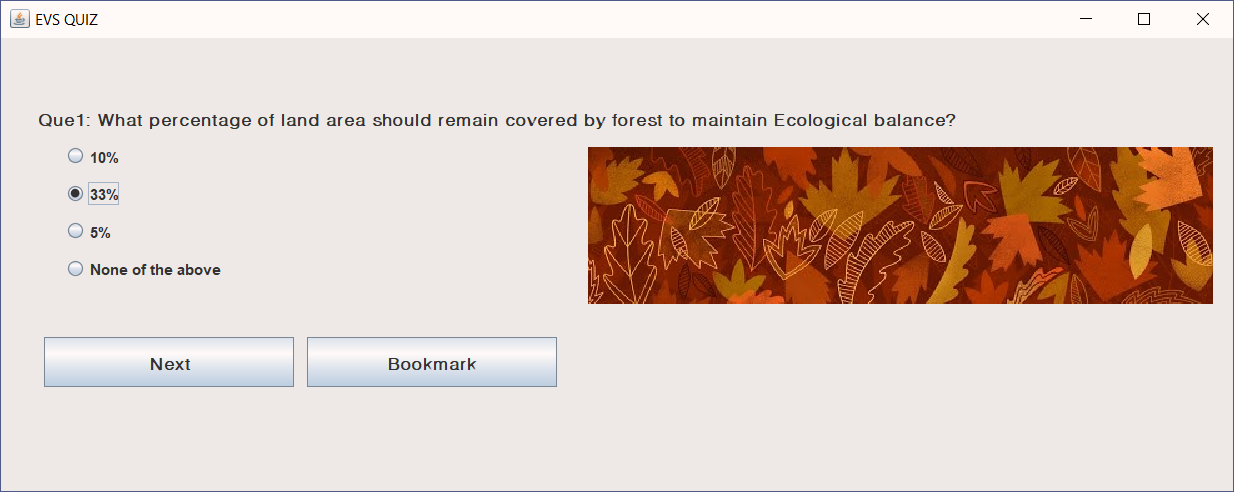
While running in an IDE or even using Windows cmd or Linux Terminal, multiple lists can be generated. The tasks in the list are tracked according to their completion independently for different lists.

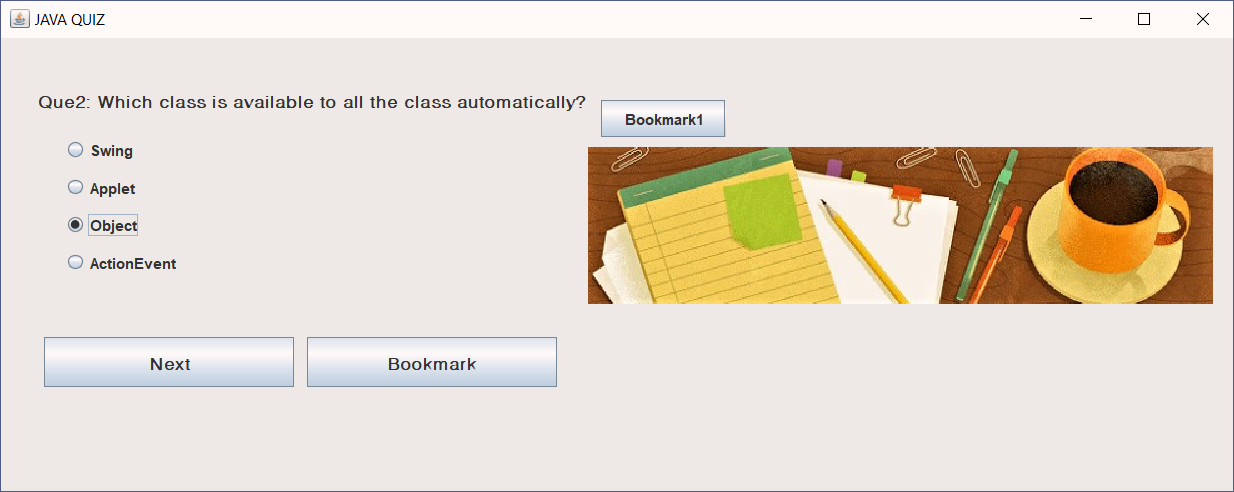
A task one marked as done, is cleared. A reminder is displayed on clicking on ‘Done!’. New asks may be added.

On selecting the option for the quiz from the Navigation Page, the following frame appears:  
  


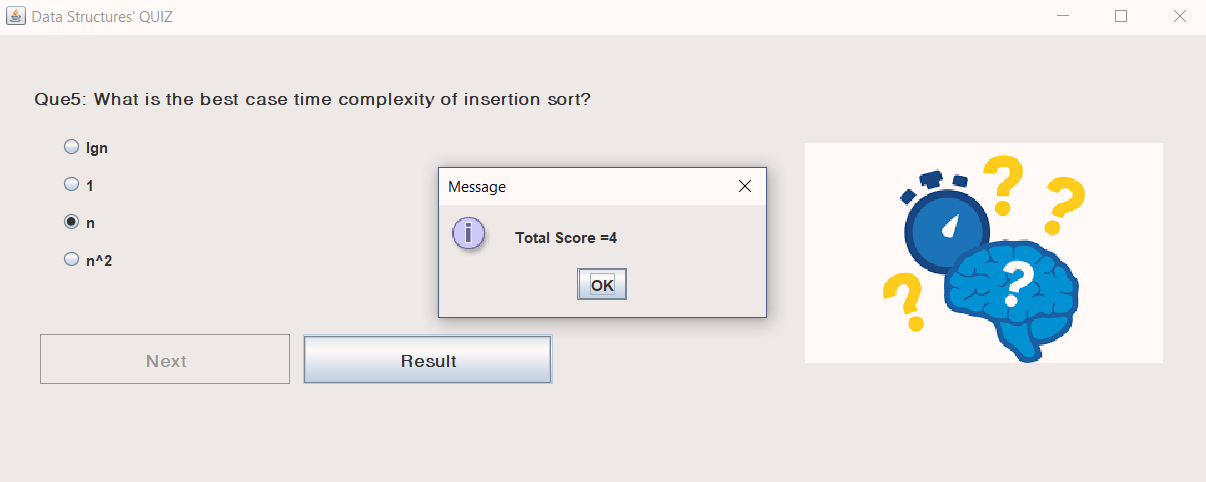
Questions are displayed according to the subject selected:



The bookmarked questions may be visited once again by clicking on the ‘Bookmark[number]’ button. The button appears only if a question has been previously labelled accordingly by the user:



After reaching the final question, the result is displayed in a message prompt that is flashed on clicking on ‘Result’:



# Future Scope

## Basic modifications

* **Framework integration**: Swing shapes the core of this project. However, in today’s time, versatile frameworks and libraries have been successful in overcoming limitations of the traditional Swing. If possible, such frameworks may be incorporated in future either by integrating them with the existing module, or by replacing it.
* **Release:** Depending on the framework used, options for deploying the application on a broader platform could be explored.

## FEATURE ADDITIONS

* **Database extension (Quiz)**: At present, the questionnaire in the quiz session consists of a limited set of questions for prototype demonstration. However, in future, after deployment, a provision can be made for accepting scholarly contributions from all over the world and thus helping our users to enrich their repository of knowledge in subjects of their choice.
* **Flexibility (To Do List):** Instead of having a specific set number of tasks – as in the current version – the task list could expand dynamically along with the additions to it. The list could also have provisions of adding external files (images, documents, or hyperlinks) as tasks to it using the application.

# Bug Reports and Challenges

## Viewing experience

* *NVision* makes the best use of Swing to give its users a simple and aesthetic interface
* For this, the developers have ensured that every button that the application has, has been described aptly so as to avoid any kind of ambiguity for its users
* Appropriate messages are displayed at all times, thus keeping the user updated at all times with his quiz score, tasks completed, etc.

## avoiding errors

* **No errors**: The current version of Nvision is totally bug-free.
* **Ant**: However, some instances of running the application on Eclipse may ask for Ant-build and may be unresponsive to those configurations as well as (new) run setups. In such a case, copying the application source contents to another folder created as a Java project in Eclipse, and re-launching Eclipse with that as the workspace is suggested as a workaround.

# Bibliography

resources referred

|  |  |  |  |
| --- | --- | --- | --- |
| NAME | referred for | link |  |
| Stackoverflow Stackexchange | Resolution of errors | <https://stackoverflow.com/>  <https://stackexchange.com/> |  |
| java T point | Swing Basics | <https://www.javatpoint.com/java-swing> |  |
| Tutorials Point | <https://www.tutorialspoint.com/swing/> |  |

Java Mini Project, Semester 3, Year 2018-19

Subject in-charge: Professor Chitra Sahu,  
  
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**NVision**

