

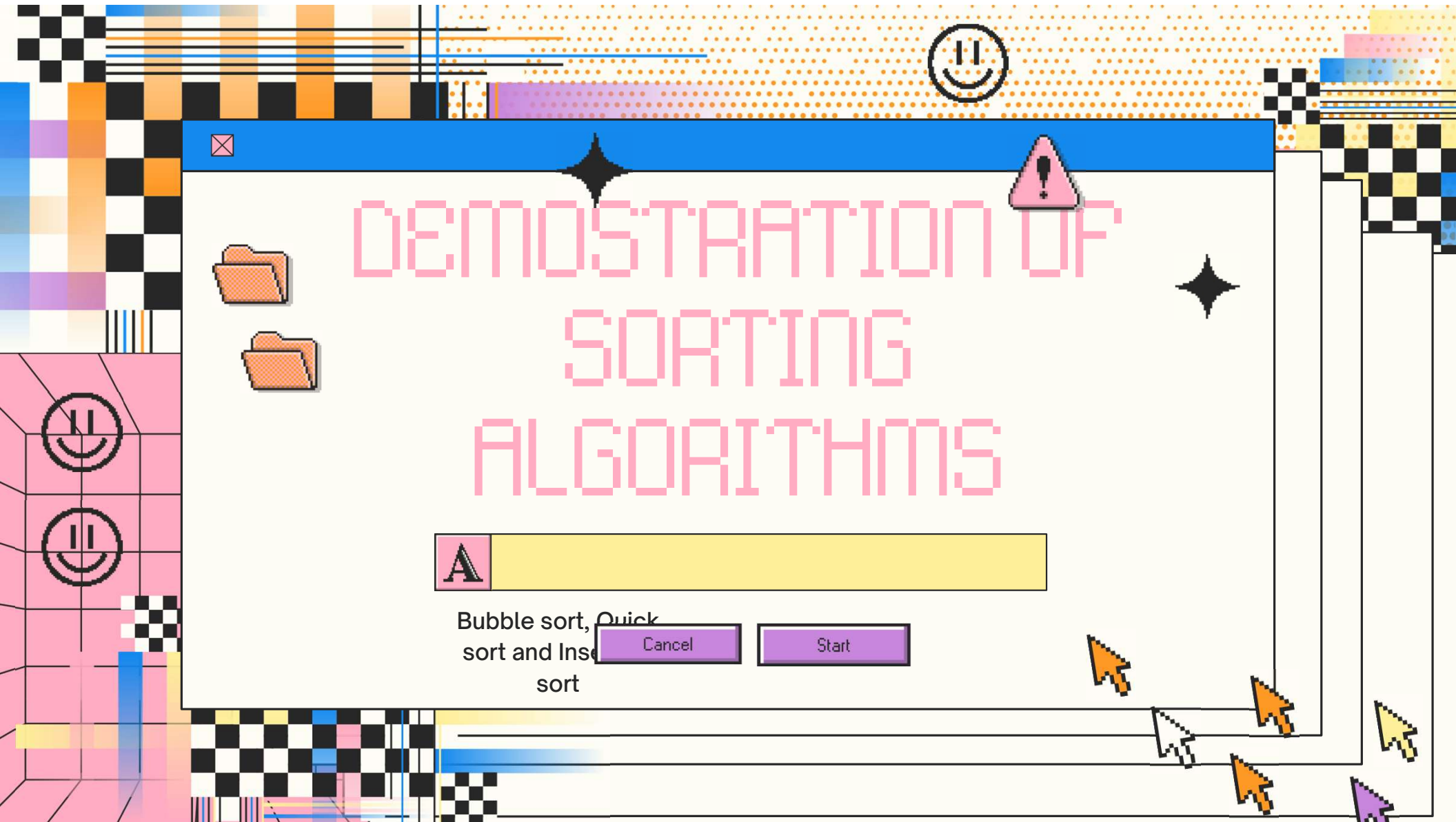
DEMONSTRATION OF SORTING ALGORITHMS

A

Bubble sort, Quick
sort and Insertion
sort

Cancel

Start



MEMBER AND ASSIGNMET

☒ Nguyen Viet Trung - 20214934

- DATACONTROLLER
CLASS
- QUICKSORT CLASS
- WRITE REPORT
- MAKE POWERPOINT
PRESENTATION
- COMBINE CODE

☒ Nguyen Trung Truc-
20214936

- INSERTIONSORT
CLASS
- BUBBLESORT CLASS
- MAKE DEMOSTRATION
VIDEO
- COMBINE CODE

☒ Pham Quang Trung- 20214935

- MENUSCREENCONTROLLER
- DEMONSTRATION
CONTROLLER
- COMBINE CODE

☒ Phan Dinh Truong- 20214937

- MENUSCREEN.FXML
- DEMONSTRATION.FXML
- COMBINE CODE



PROBLEM

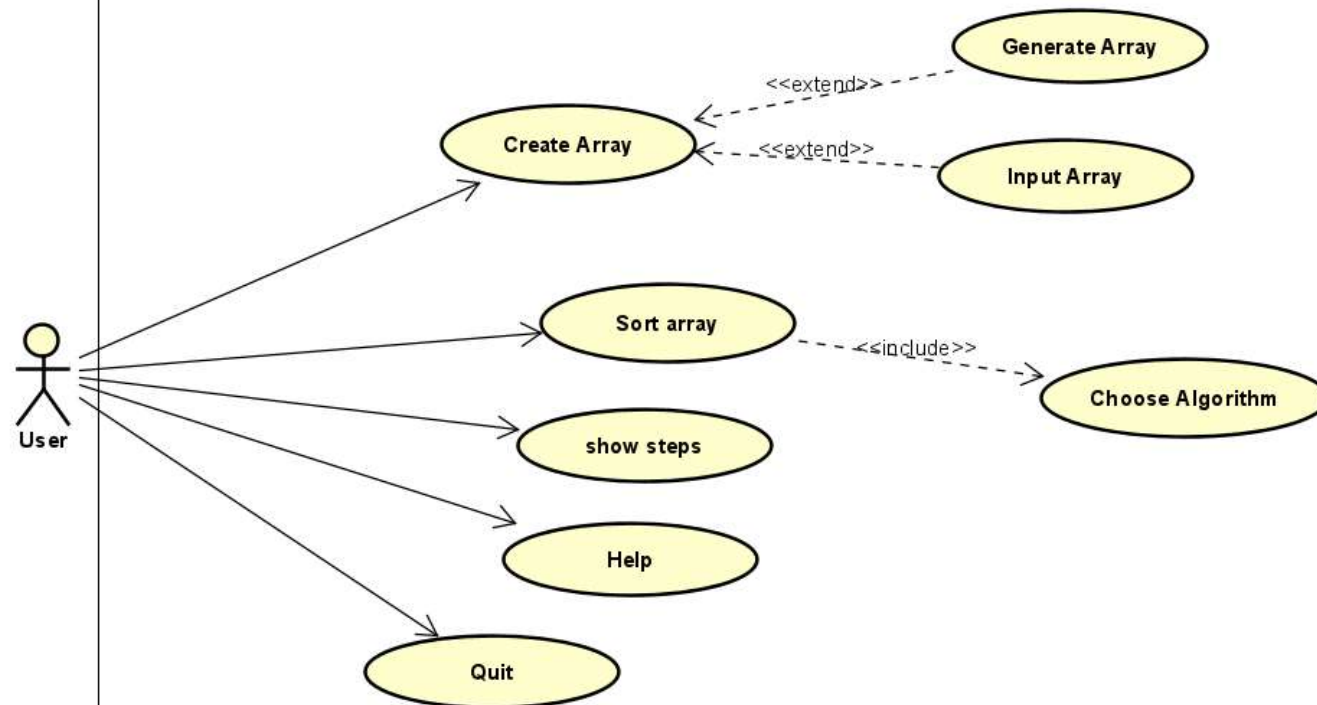
DESCRIPTION

A SORTING ALGORITHM ARRANGES THE ITEMS IN A LIST IN A SPECIFIC ORDER. THE EFFECTIVENESS OF SEVERAL DIFFERENT ALGORITHMS CAN BE INCREASED BY PERFORMING EFFICIENT SORTING. IT IS CHALLENGING TO COMPREHEND AND RECALL EVERY SORTING ALGORITHM THAT HAS BEEN INVENTED TO YET. THE GOAL OF THIS PROJECT IS TO PROVIDE A GRAPHICAL APPLICATION THAT DEMONSTRATES EACH STEP OF THREE FUNDAMENTAL SORTING ALGORITHMS: BUBBLE SORT, INSERTION SORT, AND QUICK SORT. THE GUI WAS MADE USING JAVAFX WHILE THE PROGRAM WAS CONSTRUCTED IN JAVA.



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USECASE DIAGRAM

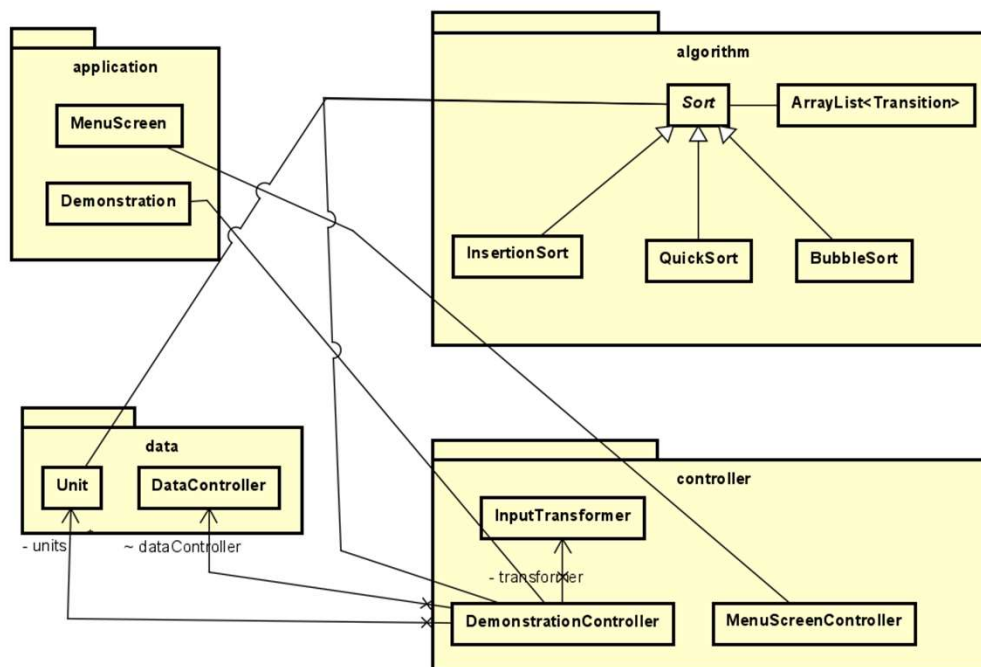


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GENERAL CLASS

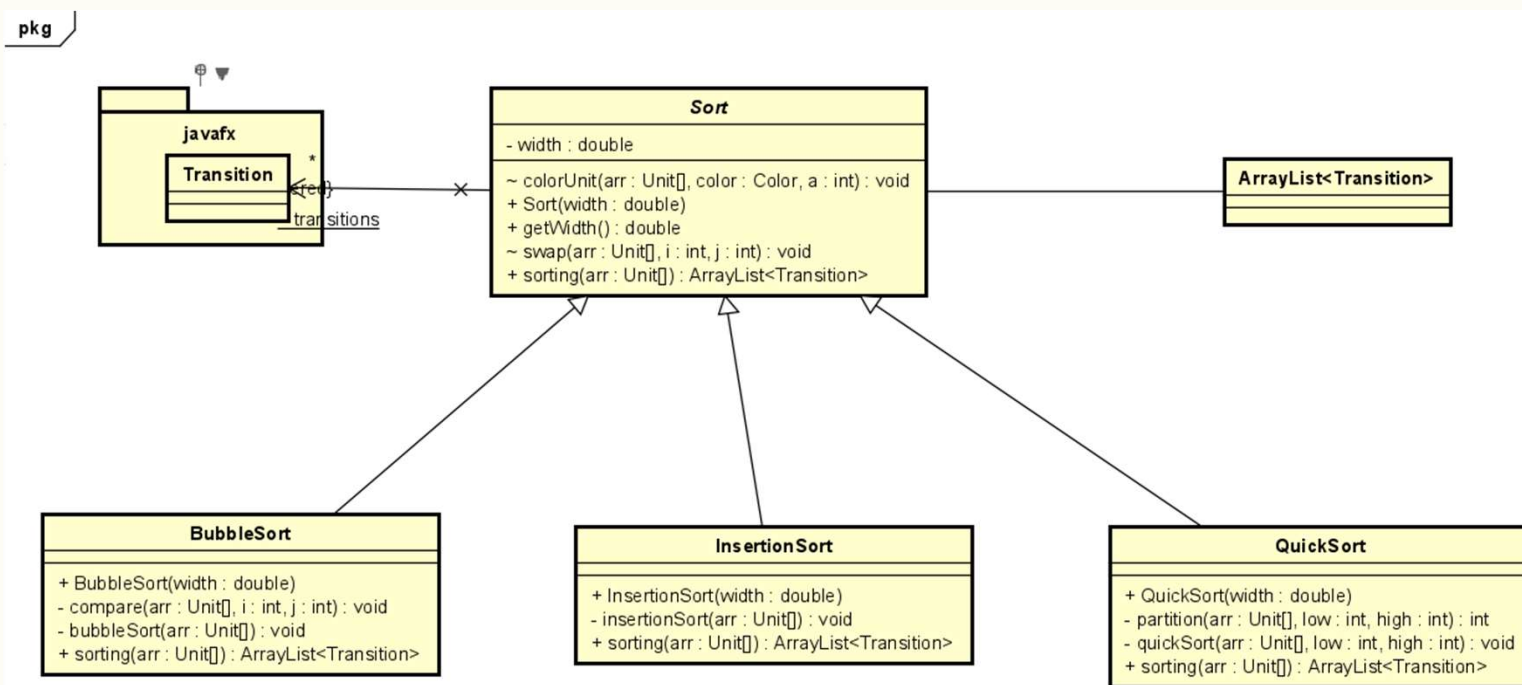
DIAGRAM

pkg



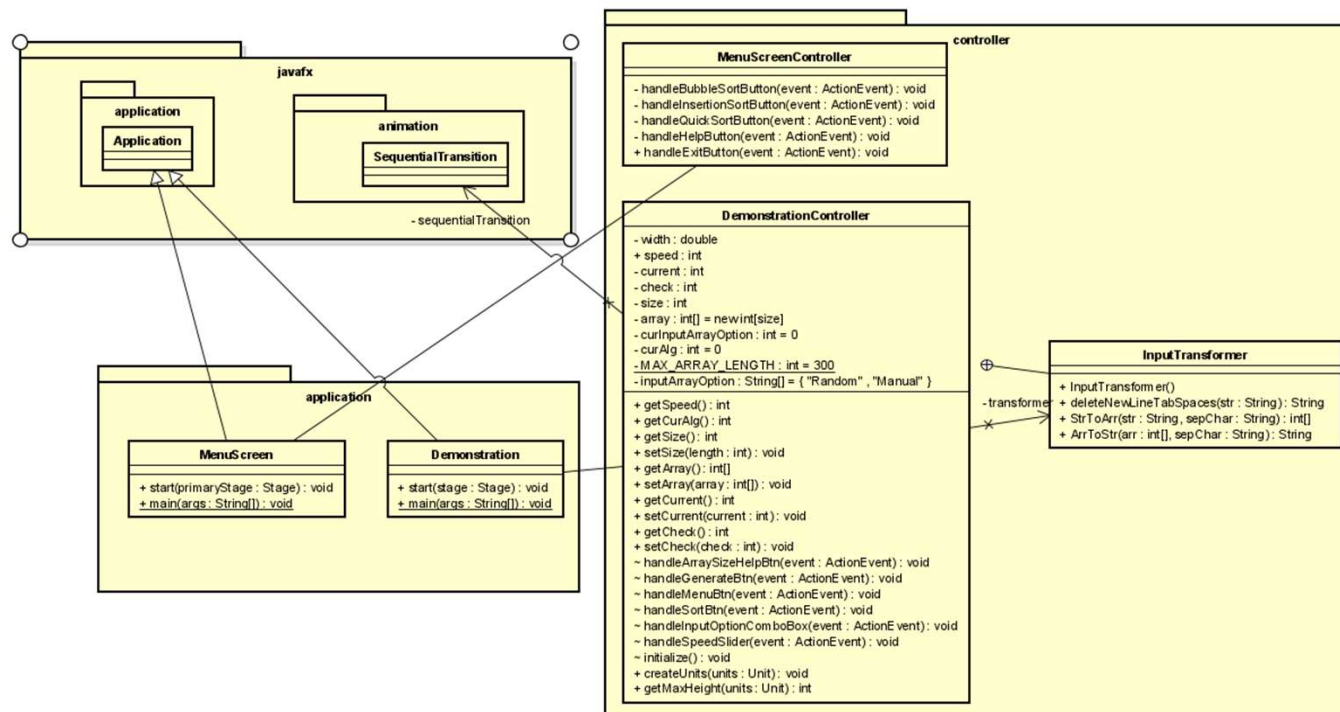
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DETAIL CLASS DIAGRAM



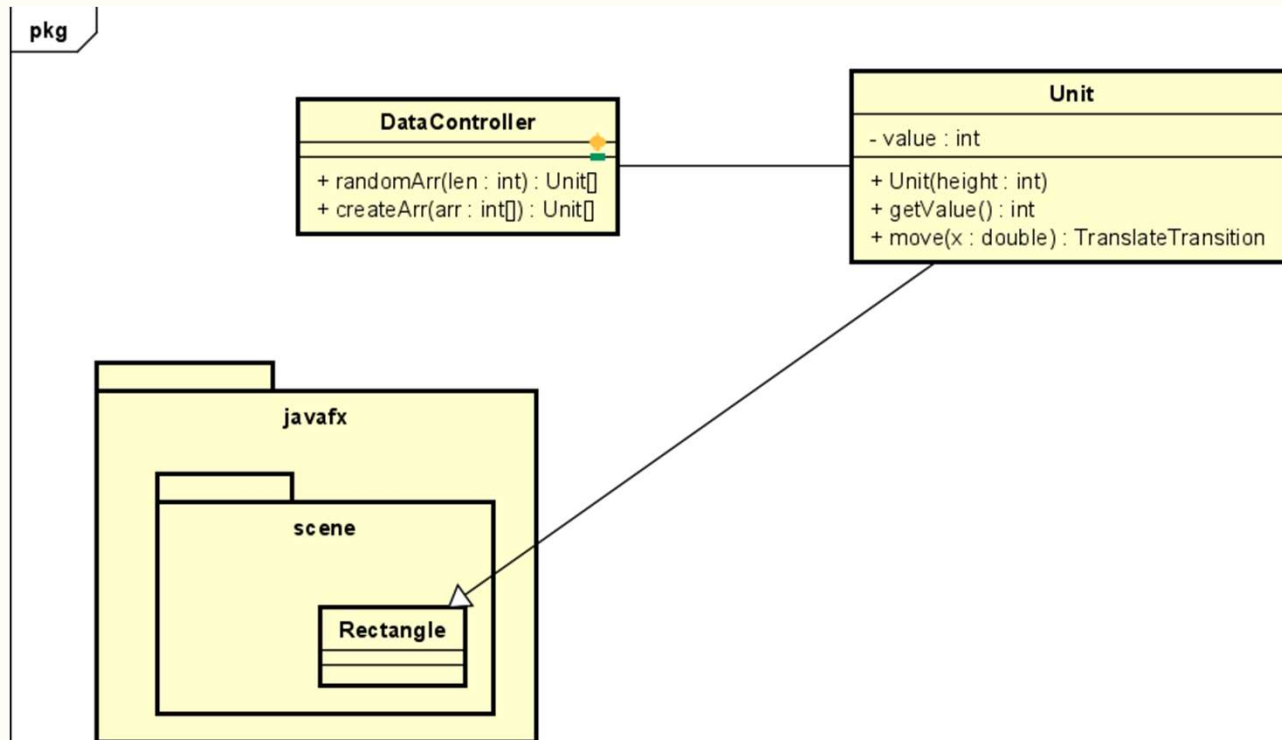
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DETAIL CLASS DIAGRAM



NỘI DUNG ĐOÀN VĂN BẢN CỦA BẠN

DETAIL CLASS DIAGRAM



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OOP

TECHNIQUES

Inheritance

- QuickSort, BubbleSort and InsertionSort inherit from the class Sort
- Unit class inherit from the Rectangle class from Javafx

Polymorphism

- Sort class used to for all 3 algorithm in DemonstrationController

Association

DemonstrationController associates with Unit, DataController Class, Sort class





OOP

TECHNIQUES

Association

DemonstrationController associates with Unit, DataController
Class, Sort class

MenuScreen associates with MenuController

DemonstrationController and MenuController associate with
many javafx class

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