

SORTING DEMONSTRATION

Presentation begins



TOOLKIT

TEAM MEMBERS

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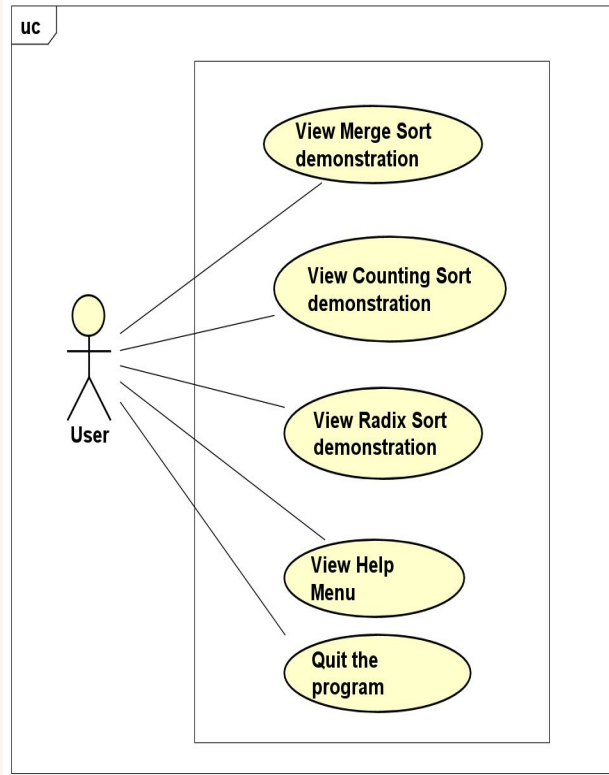
Đinh Công Vũ - 20204896

PROBLEM

Visualize three sorting algorithms: MergeSort, CountingSort, RadixSort

DESIGN

An UI sorting visualizer

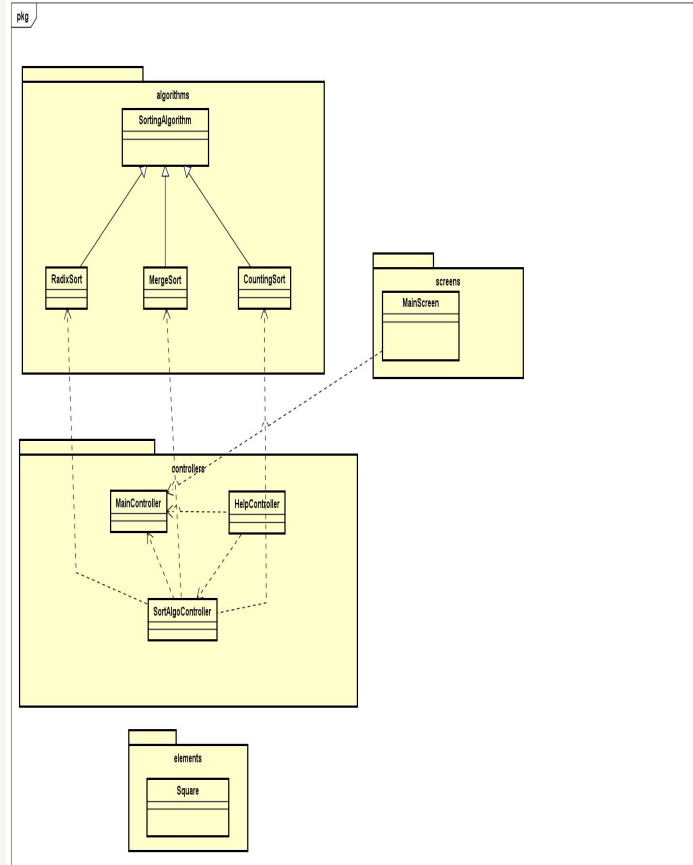


USE CASE DIAGRAM

User can choose to view one of the three counting algorithms

User can choose to view the help menu

User can choose to quit the program



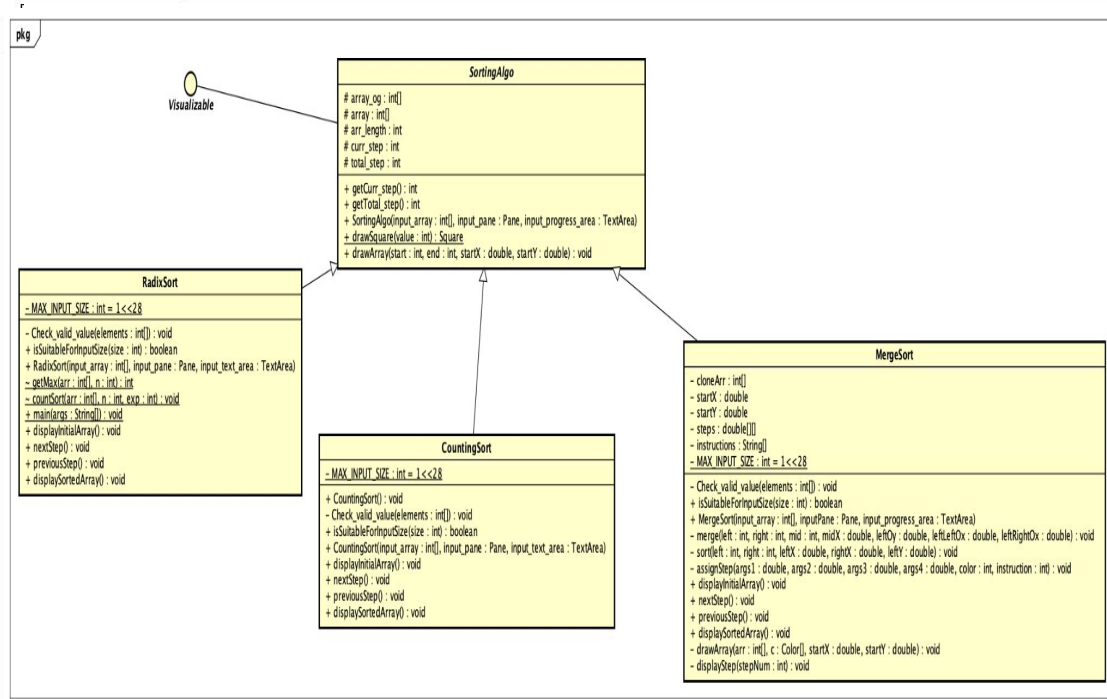
GENERAL CLASS DIAGRAM

'algorithms' package : Store 3 algorithms with abstract class `SortingAlgorithm`

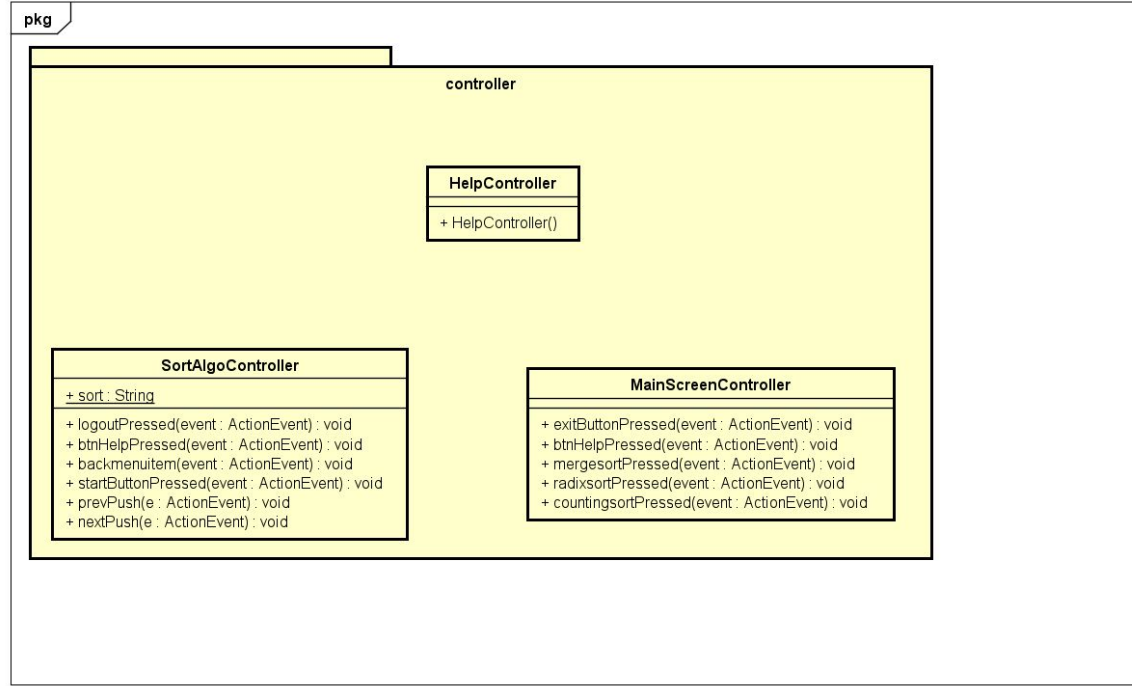
'controllers' package : Store the two controller and the helpmenu controller

'Screen' package : Store the screen of the program

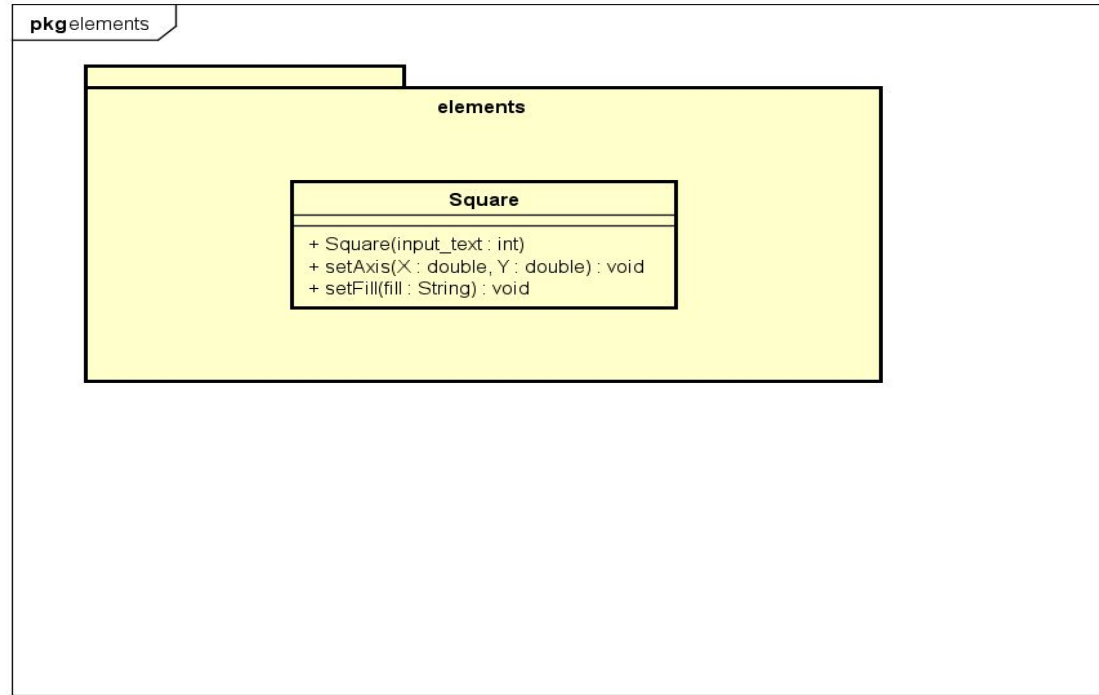
'ElemenOnScreen' package : store the class 'square'



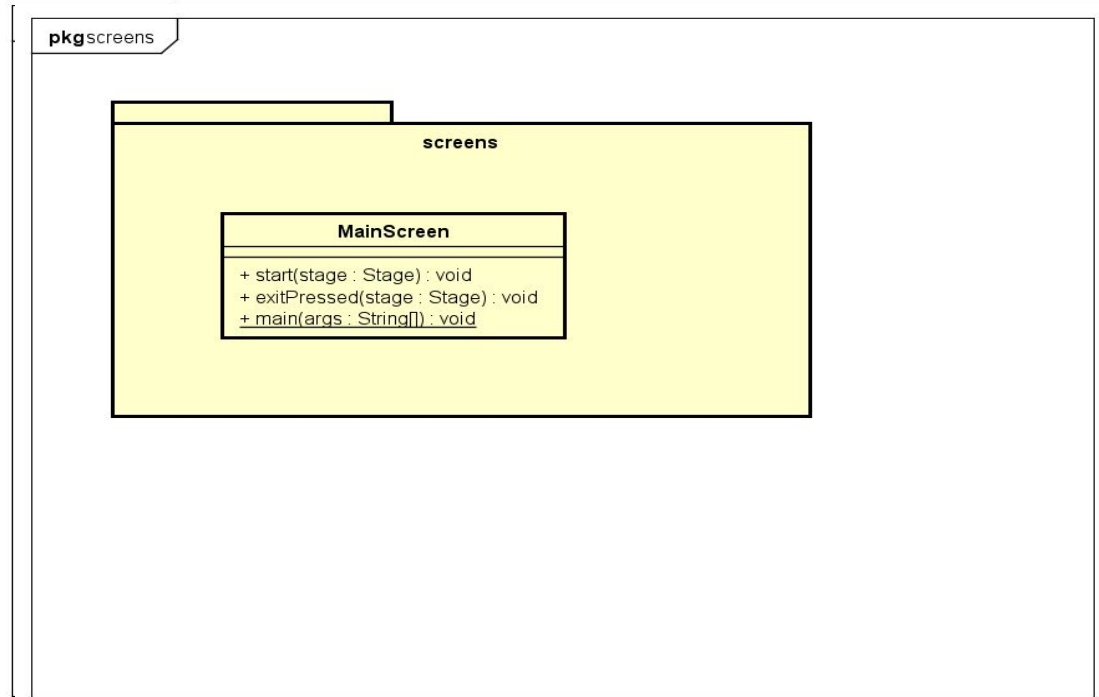
Sorting algorithm package



Controller package



Elements package



Screens package

- An abstract class sorting algorithm, the 3 algorithms inherit it.
- Encapsulated methods and attributes in classes, avoid direct access from users.

OOP TECHNIQUE

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[link...](#)

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