

BÁO CÁO MINI PROJECT MÔN LẬP TRÌNH HƯỚNG ĐỐI TƯỢNG

Team 21 Topic 1: Visualization of operations on tree data structures

Team members and assignment:

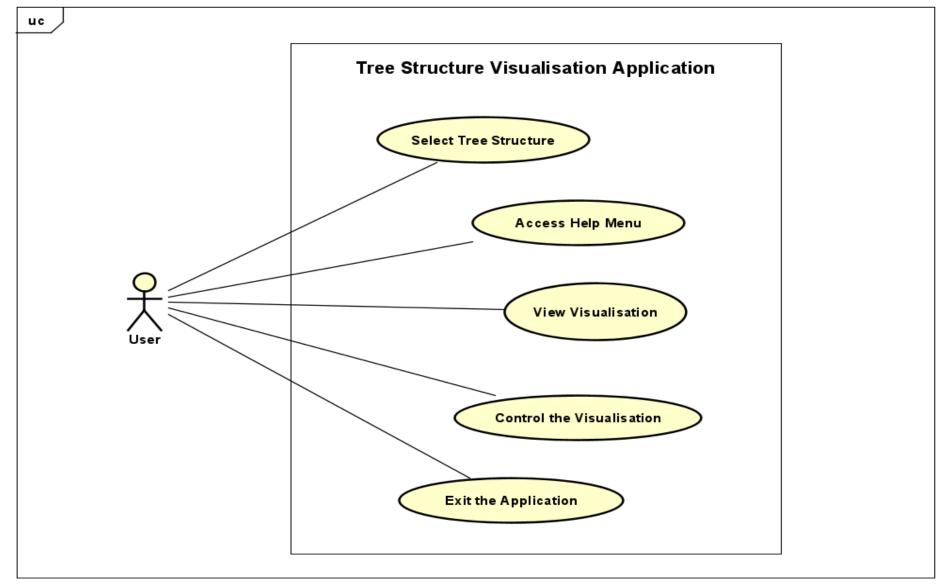
- 1. Lê Quang Minh 20215088 (Leader): Algorithm and UI
- 2. Nguyễn Phúc Mạnh 20215087: UI
- 3. Đoàn Quang Minh 20210606: UI
- 4. Hoàng Nhật Minh 20210607: UI

Problem statement

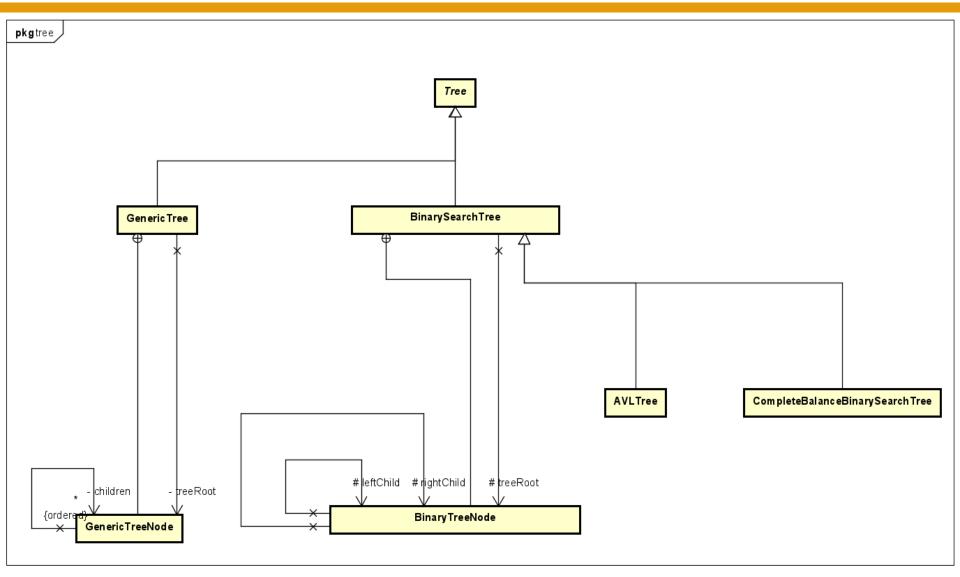
- Tree data structures are interesting and useful, yet not many students can study tree structure that well.
- A tree visualization application can help with that
- Demonstrate step by step of any operations of a tree.



Use case diagram

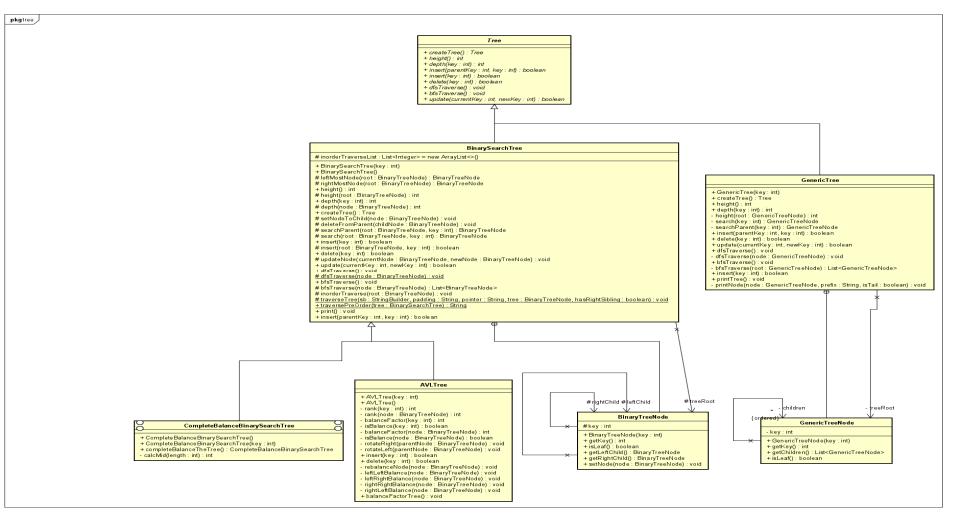


General class diagram





Class diagrams for packages/modules





Inheritance

- GenericTree, BinarySearchTree inherit abstract Tree
- AVLTree, CBBST inherit BinarySearchTree



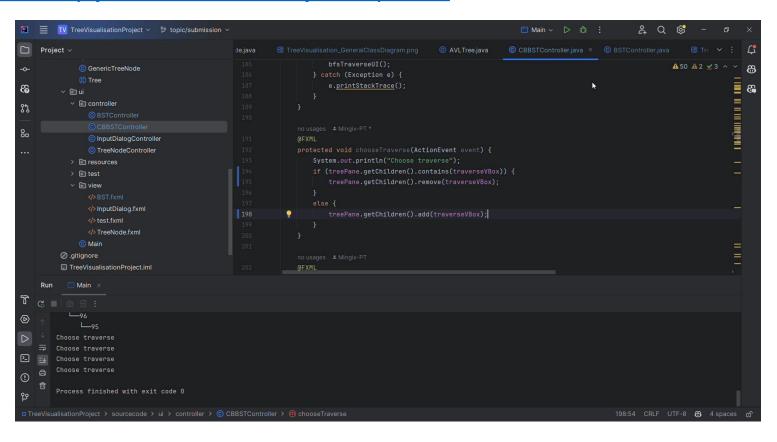
Association/Aggregation/Composition

- GenericTree contains GenericTreeNode (Aggregation)
- BinarySearchTree, AVLTree, CBBST contain BinaryTreeNode (Aggregation)



Demo scenario

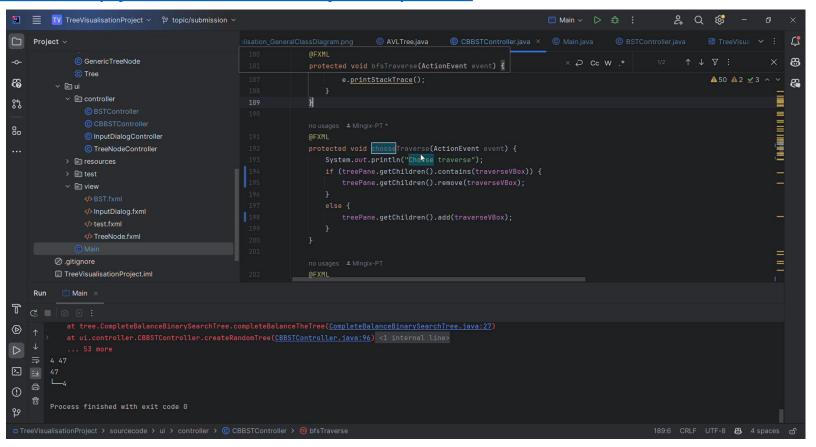
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Demo scenario

 https://husteduvnmy.sharepoint.com/:f:/g/personal/minh_lq215088_sis_hust_edu_vn/EmYWON1QnCREr oOsiEsDZTEByajtv1NTOWhlrd37D0mjHA?e=yA453V







THANK YOU!