School Dance Ticket Software

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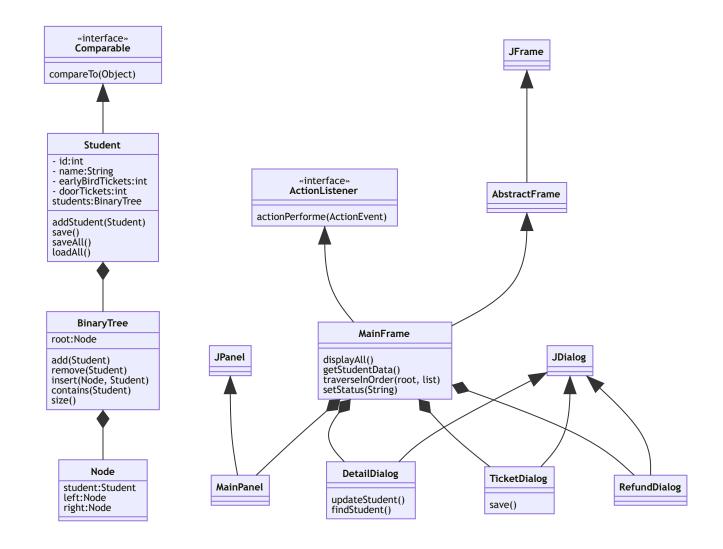
Completion Check

- Methods (add() recursive method)
- ② Loops (insert() while loop,)
- P Decision structures
 - 1. allow student buy early bird tickets for cheap price;
 - 2. allow student buy more than one tickets for guests;
 - 3. allow student buy door price tickets;
 - 4. allow student refund his/her tickets;
 - 5. allow display all students information on a table in the order of student id;
 - 6. if student does NOT exist while refund, the message will be displayed on status bar at the bottom.
 - 7. main window shall display party start time, duration, location and sponsor information
 - 8. it is better to have help document for user.
 - 9. Basic operation check: add, save, load, insert, remove ...
- 10. 🤋 ♀ What is the difference between add() and insert() method in BinaryTree?
- ✓ UML class, attributes, method...

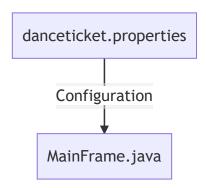
 See below
- ? Original ideas and design complexity
- ✓ Data Structure applicable, Generic [See Node.java and BinaryTree.java]
- ✓ Functionality Ticket(early bird, door price, refund), Find(one.update, all), Help

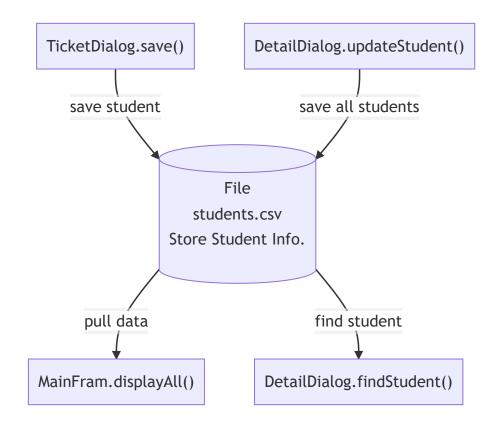
- ✓ Use of Tree data structure BinaryTree, Node
- ✓ Naming conventions (Camel style, upercase for class, lower case for fields and methods)
- ≪ Comments/Docs
- ✓ ✓ Code readability (fields and methods naming, function single responsibility)
- ✓ User Interface (MainFram, MainPanel, DetailDialog, RefundDialog, ...)
- ② UML Layout/presentation
- ✓ File I/O (see Student.save(), Student.saveAll(), Student.loadAll())
- ✓ ? Data Structure (ArrayList, LinkedList, Queue)
 ② May not be used
 ②
- ✓ ② Basic operations (implemented size, contains, add, insert, find, but only used add, find) ② May not be used
- ✓ Advanced operation remove() (BinaryTree.remove()==>refund ticket)
- ✓ Use of a Tree data structure (BinaryTree.java)
- ✓ Use file I/O to load/save configuration (danceticket.properties) and data (tickets.csv)
- ✓ must incorporate your own data structure(s) (BinaryTree, Node, BinaryTree.find,
 BinaryTree.remove)

Class Diagram



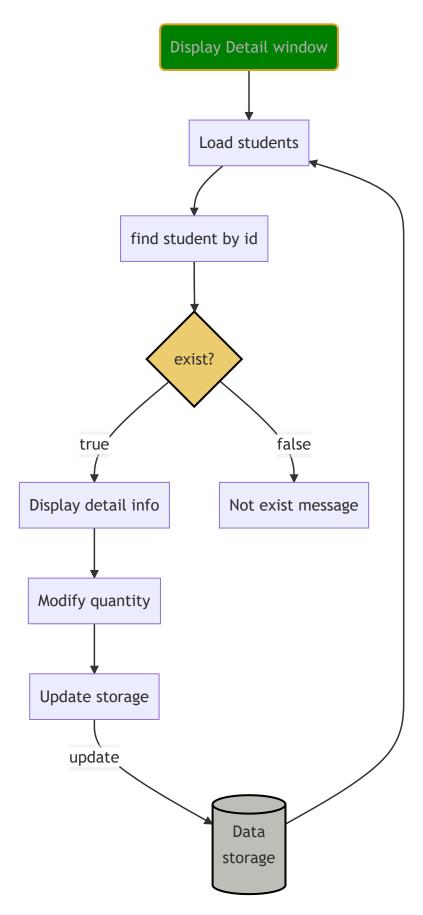
Configuration & Data store files



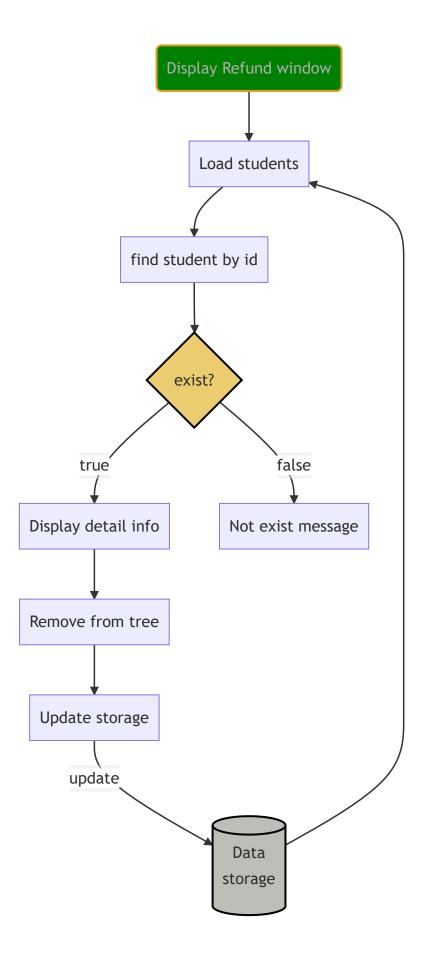


Flowchart

• Detail Operation Logic



• Refund Operation Logic



Test

test BinaryTree add(), loadAll(), saveAll(), Find(), Insert(), Remove()

also test configuration properties load(), Date format.

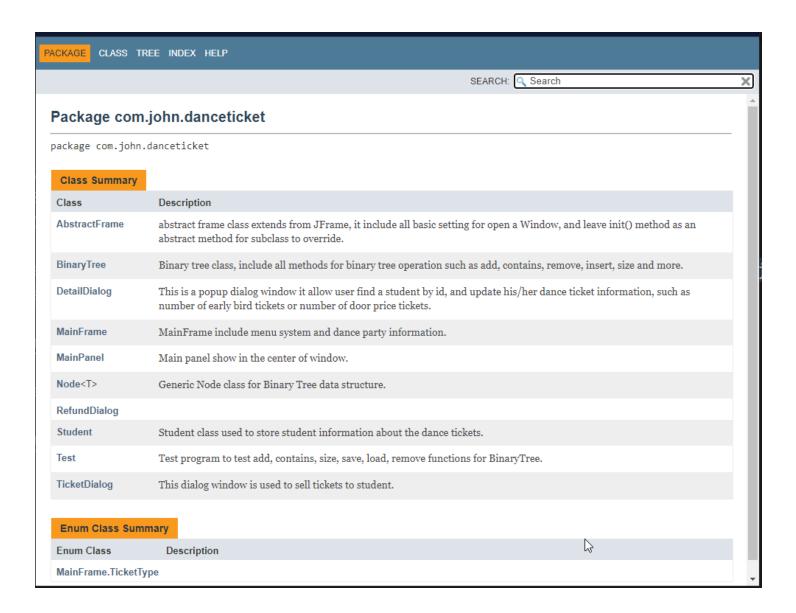
Java Docs

Open DOS command window, cd to the folder below, type in javadoc command

 $\verb|C:\Users\12818\workspace\Rodney\java\doc\danceticket> javadoc - source path ../../john/src - subpackages com.john.dar - subp$

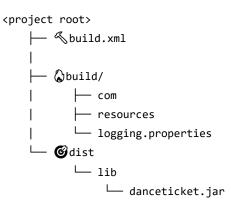
Name	Date modified	Туре	Size
com	12/4/2021 8:58 PM	File folder	
resources	12/4/2021 8:58 PM	File folder	
script-dir	12/4/2021 8:58 PM	File folder	
allclasses-index.html	12/4/2021 8:58 PM	Microsoft Edge H	7 KB
💽 allpackages-index.html	12/4/2021 8:58 PM	Microsoft Edge H	3 KB
constant-values.html	12/4/2021 8:58 PM	Microsoft Edge H	4 KB
element-list	12/4/2021 8:58 PM	File	1 KB
🔃 help-doc.html	12/4/2021 8:58 PM	Microsoft Edge H	7 KB
💽 index.html	12/4/2021 8:58 PM	Microsoft Edge H	2 KB
🔃 index-all.html	12/4/2021 8:58 PM	Microsoft Edge H	23 KB
jquery-ui.overrides.css	12/4/2021 8:58 PM	Cascading Style S	1 KB
member-search-index.js	12/4/2021 8:58 PM	JavaScript Source	5 KB
module-search-index.js	12/4/2021 8:58 PM	JavaScript Source	1 KB
overview-tree.html	12/4/2021 8:58 PM	Microsoft Edge H	12 KB
package-search-index.js	12/4/2021 8:58 PM	JavaScript Source	1 KB
script.js	12/4/2021 8:58 PM	JavaScript Source	5 KB
search.js	12/4/2021 8:58 PM	JavaScript Source	13 KB
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stylesheet.css	12/4/2021 8:58 PM	Cascading Style S	19 KB
ıs tag-search-index.js	12/4/2021 8:58 PM	JavaScript Source	1 KB
s type-search-index.js	12/4/2021 8:58 PM	JavaScript Source	1 KB

Double click index.html file name



Deployment (jar)

- 1. Ant build
- 2. target: dist
- 3. Generate danceticket.jar



```
cd <danceticket.jar folder>
java -jar danceticket.jar
```


- 1. In order to run the jar file, put all configuration and resource files (logging.properties, dance.jpg, danceticket.properties) in classpath.
- 2. use InputStream to read file, instead of FileReader.

```
String imageFile = parent.getProp().getProperty(IMAGE_FILE_PROP);
// load image file by using InputStream
        InputStream imgIn = MainPanel.class.getClassLoader().getResourceAsStream(imageFi
        try {
                img = ImageIO.read(imgIn);
        } catch (IOException e) {
                e.printStackTrace();
        }
private void loadProperties() {
        logger.info("loadProperties() ...");
        prop = new Properties();
// load resources/danceticket.properties file using InputStream
        InputStream in = MainFrame.class.getClassLoader().getResourceAsStream(PROP_FILE)
        try {
                // load a properties file
                prop.load(in);
        } catch (IOException ex) {
                logger.severe(ex.getMessage());
        }
}
```

Run danceticket.jar on DOS command window.

```
C:\Users\12818\workspace\Rodney\java\john\dist\lib>java -jar danceticket.jar
file:/C:/Users/12818/workspace/Rodney/java/john/dist/lib/danceticket.jar!/logging.properties
```

Logging

- Logging configuration file: logging.properties
- 2. logging output file: /workspace/Rodney/java/mylogs%u.log

3. Create logger

Software include

