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┌─────────────────┐      ┌─────────────────┐      ┌─────────────────────┐      ┌─────────────────┐
│ Upload Java File │─────▶│ Extract Zip file │─────▶│ Two cases:          │─────▶│ Execute the      │
│ (Zip file)       │      │ (Scripting       │      │ 1. If already have  │      │ .class file      │
│                  │      │ language is      │      │ the object file in  │      │ (Scripting       │
│                  │      │ used for         │      │ submitted file then │      │ language is      │
│                  │      │ extraction)      │      │ use that.           │      │ used)            │
└─────────────────┘      └─────────────────┘      │ 2. If not compile   │      └─────────────────┘
                                                    │ the source java     │
                                                    │ file (Scripting     │
                                                    │ language is used    │
                                                    │ for compilation)    │
                                                    └─────────────────────┘
```

Upload Java File (Zip file)

Extract Zip file (Scripting language is used for extraction)

Two cases:
1. If already have the object file in submitted file then use that.
2. If not compile the source java file (Scripting language is used for compilation)

Execute the .class file (Scripting language is used)

Analyze the code to find if the program followed proper indentation, comments, wiide spaces etc

Analyze the code whether it is efficient or not (To find out program taking long or short time)

Test case are performed on the code

Test Case 1

Pass

Test Case 2

Pass

Test Case n

Apply Data Visualization tools and techniques to visualize the data

Database

Fail (Store the information in student profile to give feedback and visulaition

Fail (Store the information in student profile to

Pass

give feedback and
visulaition