

Agenda

① Implement all Product APIs

↳ Getting list

↳ Generic and Type Erasure

② Adapter Design Pattern

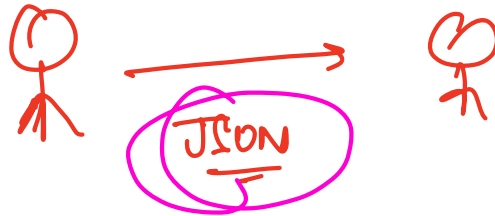
③ Handling Exceptions (@Controller Advice)

④ Lombok

@Data @Getter @Setter

⑤ Intro to gRPC and Protobufs

Only if we
get time



If you didn't
attend prev one,
better leave the
class and watch
recording of prev

→ ArrayList <Integer> arr;
only at Compile time

→ At runtime the info about ^{template} data type of generic is lost.

→ ArrayList . class

list <Integer> → list . class

Before Java 5

List

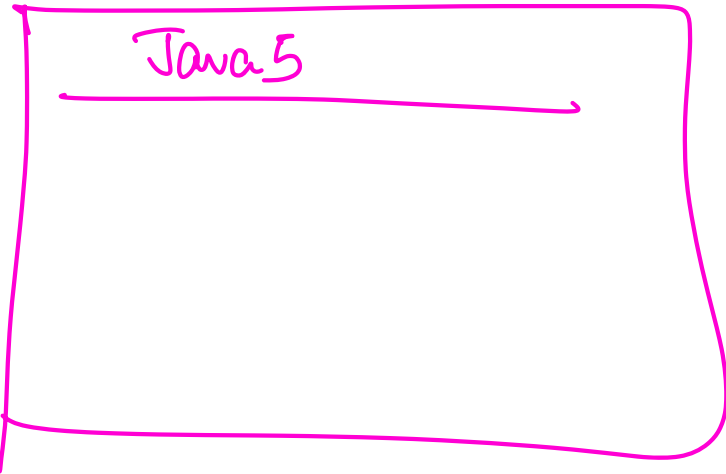
ArrayList

LinkedList

To ensure backward compatibility, Java introduced generics via measure.

→ Java 2
class ArrayList { }
ArrayList c = new ArrayList ();

a code written for prev version of Java should also work in new version of Java



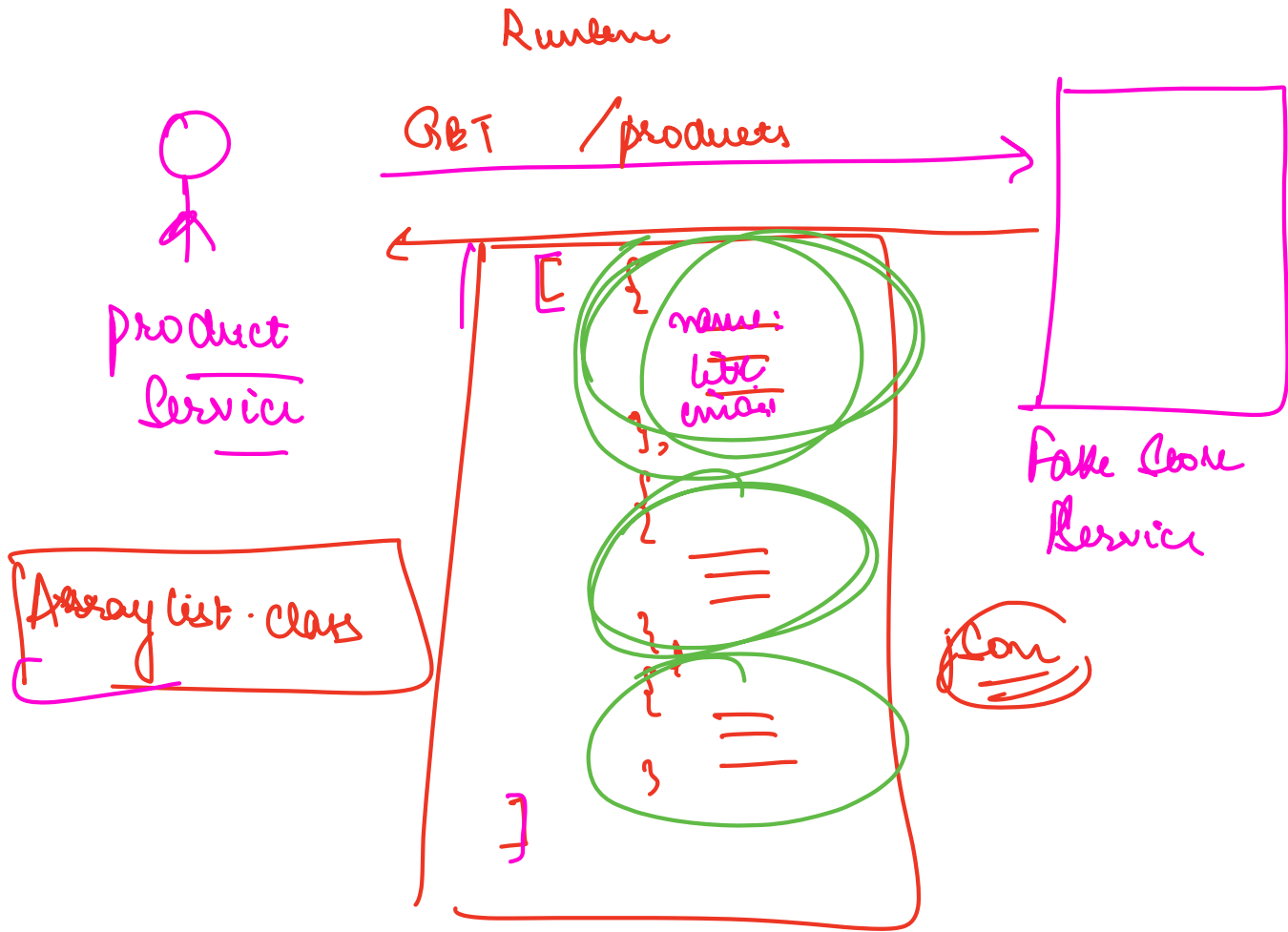
$\text{List} < \text{Animal} > l = \{$

this info is only req^d at compile time

Animal or
 Any of its
 child

At run time, the info about the data type of template variables is erased

$\text{List} l = \{$



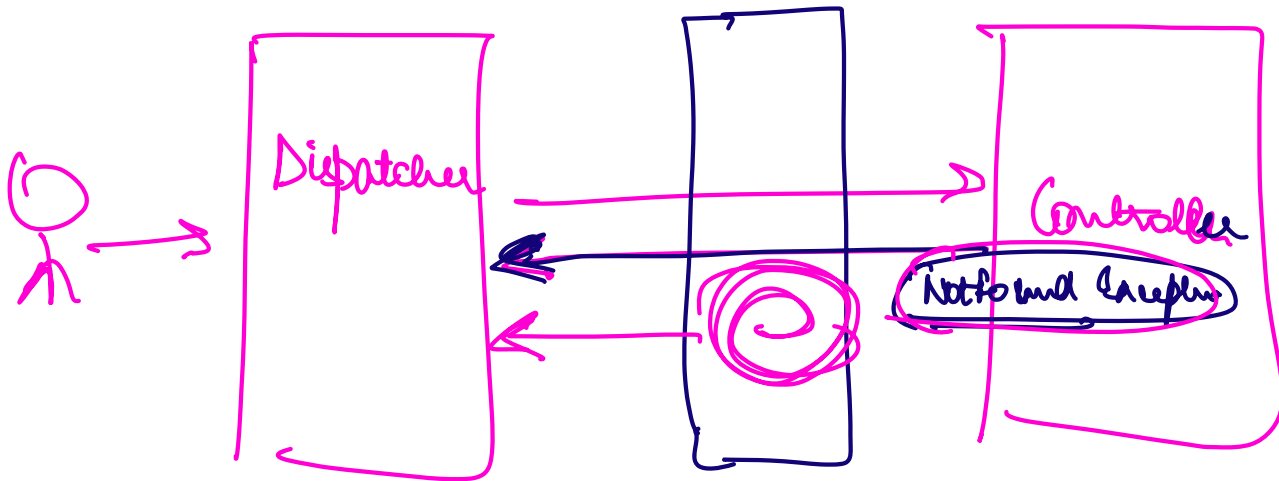
Break till 10:18

$list < SomeObject >$

SomeObject {
 Status ;
 Product Obj -

}

Controller Advice



H/W

- ⇒ Implement (PS) till where we have done yourself
- ① ⇒ Read about course on generics
- ⇒ Implement update product
- ⇒ Article on exception handling

Open API (Swagger)
API Versioning
Exceptions (20x)