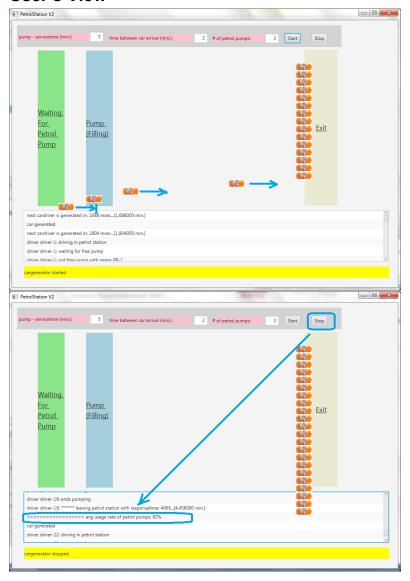
Overview

Simulation of a Petrol – Station

- animation of cars
- usage rate of pump stations

User's View



Gerald Ortner 07.11.2018

Hint for Developers

Control animation via workerprocess:

Controller:

```
public void doAnimationMoving(CarDriver cd) throws Exception {
   ImageView iv = collImages.get(cd.getIdOfDriver()-1);
   Path path = new Path();
   //set start- and endposition
   path.getElements().add(new MoveTo(cd.getOldCooX(), START_Y + LANE_WIDTH * cd.getIdOfDriver()));
   path.getElements().add(new HLineTo(cd.getCurrentCooX()));
   PathTransition pathTransition = new PathTransition();
   pathTransition.setDuration(Duration.millis(ANIMATION_DURATION));
   pathTransition.setPath(path);
   pathTransition.setNode(iv);
   pathTransition.setAutoReverse(false);
   pathTransition.play();
}
```

Worker:

Working with Constant Values

If there are a lot of constants in use which are used in several classes,

- o the constants should be defined in an interface
- o and the interface is implemented by all classes, which need the constants.

```
public interface AnimCoordinates {

public static final int START Y = 100;
public static final int MIDTH = 20;
public static final int LANE MIDTH = 20;
public static final int COO MAITING FUMP = 60;
public static final int XCOO FAMITING FUMP = 60;
public static final int XCOO FAMITING FUMP = 60;
public static final int XCOO FAMITING FUMP = 60;
public static final int XCOO FAMITING FUMP = 60;
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public static final int XCOO FAMITING FUMP = 60;
public static final int XCOO FAMITING FUMP = 60;
public static final int XCOO FAMITING FUMP = 60;
public static final int X
```

Hint for Testers

| Service- | Time-Between- | | Usage-rate per Pump |
|----------|---------------|------------|-----------------------|
| Time | Arrival | # of Pumps | (in theory:=ST/TBA/#) |
| 5 | 5 | 2 | 50% |
| 5 | 3 | 2 | 83% |
| 5 | 2 | 3 | 83% |

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