

# How To Write A New Scheduling Policy

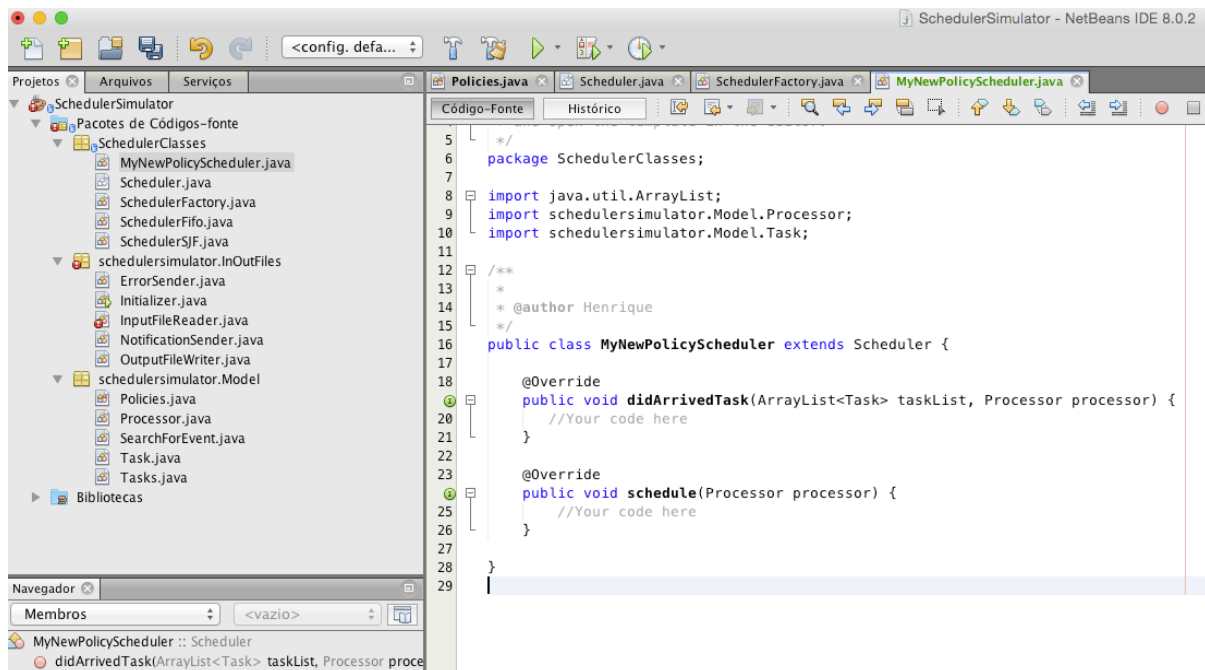
1- Go to the Policies enum file and add the name of your scheduling policy.

```
public enum Policies {  
    Fifo, SJF ,MyNewPolicy ;  
}
```

You must also write an IF in the returnPolicieByName method. It should look like this:

```
/**  
 * This method recives a string with a name of a scheduling policie and  
 * returns the enum of this policie. Case the policie name does not exists  
 * or is not implemented by this system, it will return NULL  
 */  
 * @param S The string with the scheduling policie name  
 * @return The policie that is equal to the stirng recived  
 */  
public static Policies returnPolicieByName(String S) {  
    if (S.equalsIgnoreCase("fifo")) {  
        return Policies.Fifo;  
    }  
    if (S.equalsIgnoreCase("sjf")) {  
        return Policies.SJF;  
    }  
  
    if (S.equalsIgnoreCase("MyNewPolicy")) {  
        return Policies.MyNewPolicy;  
    }  
  
    return null;  
}
```

2-Create a class that have the name of your policy. Make this class extends the class Scheduler.



Now, you will have to implement your scheduling policy using these two methods. You can check the JavaDoc to learn more about how these methods are used and when they are called. After implementing these two methods you can go to the next step.

3- Then you should edit the class SchedulerFactory, adding an IF to the createScheduler Method. It should look like this:

```
/**Creates a new instance of Scheduler
 *
 * @param policieInstance The scheduling policie that you want to use in your scheduler instance
 * @return A scheduler that runs the same policie as passed in param.
 *         EG: param == Policies.Fifo
 *         return: new SchedulerFifo
 */
public static Scheduler createScheduler(Policies policieInstance) {
    Scheduler returningScheduler = null;

    if (policieInstance == Policies.Fifo) {
        returningScheduler = new SchedulerFifo();
    }

    if (policieInstance == Policies.SJF) {
        returningScheduler = new SchedulerSJF();
    }

    if (policieInstance == Policies.MyNewPolicy){
        returningScheduler = new MyNewPolicyScheduler();
    }

    return returningScheduler;
}
```

If you followed all the steps correctly you should be able to use your own scheduling policy in your simulation. If you find any problems, please contact the development team at [linhares.h@gmail.com](mailto:linhares.h@gmail.com) .

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<https://github.com/linharesh/SchedulingTaskSimulator>

Please check the software documentation for more information.