UNIVERSIDADE FEDERAL DE MINAS GERAIS – UFMG
DEPARTAMENTO DE ENGENHARIA ELÉTRICA - DEE
Engenharia de Software - Prof. André Hora

Trabalho Prático 1 - Entrega Parcial I

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Relatório do Lizard

Os relatórios gerados pela ferramenta Lizard, estão descritos abaixo:

```
==================================================
  NLOC    CCN    token  PARAM  length  location
--------------------------------------------------
      5      1     42      0        7 (anonymous)@30-36@src/api.ts
      4      1     31      0        4 (anonymous)@36-39@src/api.ts
      1      1      2      0        1
(anonymous)@10-10@src/controller/CrewController.ts
      7      2     37      0        7
getCrews@6-12@src/controller/CrewController.ts
      1      1      2      0        1
(anonymous)@18-18@src/controller/CrewController.ts
      7      2     45      0        7
getCrew@14-20@src/controller/CrewController.ts
      1      1      2      0        1
(anonymous)@27-27@src/controller/CrewController.ts
      8      2     46      0        8
createCrew@22-29@src/controller/CrewController.ts
      1      1      2      0        1
(anonymous)@36-36@src/controller/CrewController.ts
      8      2     55      0        8
updateCrew@31-38@src/controller/CrewController.ts
      1      1      2      0        1
(anonymous)@44-44@src/controller/CrewController.ts
      7      2     45      0        7
deleteCrew@40-46@src/controller/CrewController.ts
      1      1      2      0        1
(anonymous)@10-10@src/controller/CrewmanController.ts
      7      2     37      0        7
getCrewmans@6-12@src/controller/CrewmanController.ts
      1      1      2      0        1
(anonymous)@18-18@src/controller/CrewmanController.ts
      7      2     45      0        7
getCrewman@14-20@src/controller/CrewmanController.ts
      1      1      2      0        1
(anonymous)@27-27@src/controller/CrewmanController.ts
      8      2     46      0        8
createCrewman@22-29@src/controller/CrewmanController.ts
      1      1      2      0        1
(anonymous)@36-36@src/controller/CrewmanController.ts
      8      2     55      0        8
updateCrewman@31-38@src/controller/CrewmanController.ts
```

```
        1       1       2       0       1
(anonymous)@44-44@src/controller/CrewmanController.ts
        7       2       45      0       7
deleteCrewman@40-46@src/controller/CrewmanController.ts
        1       1       2       0       1
(anonymous)@10-10@src/controller/LaunchController.ts
        7       2       37      0       7
getLaunchs@6-12@src/controller/LaunchController.ts
        1       1       2       0       1
(anonymous)@18-18@src/controller/LaunchController.ts
        7       2       45      0       7
getLaunch@14-20@src/controller/LaunchController.ts
        1       1       2       0       1
(anonymous)@27-27@src/controller/LaunchController.ts
        8       2       46      0       8
createLaunch@22-29@src/controller/LaunchController.ts
        1       1       2       0       1
(anonymous)@36-36@src/controller/LaunchController.ts
        8       2       55      0       8
updateLaunch@31-38@src/controller/LaunchController.ts
        1       1       2       0       1
(anonymous)@44-44@src/controller/LaunchController.ts
        7       2       45      0       7
deleteLaunch@40-46@src/controller/LaunchController.ts
        1       1       2       0       1
(anonymous)@16-16@src/controller/RocketController.ts
        7       2       37      0       7
getRockets@12-18@src/controller/RocketController.ts
        1       1       2       0       1
(anonymous)@24-24@src/controller/RocketController.ts
        7       2       45      0       7
getRocket@20-26@src/controller/RocketController.ts
        1       1       2       0       1
(anonymous)@33-33@src/controller/RocketController.ts
        8       2       46      0       8
createRocket@28-35@src/controller/RocketController.ts
        1       1       2       0       1
(anonymous)@42-42@src/controller/RocketController.ts
        8       2       55      0       8
updateRocket@37-44@src/controller/RocketController.ts
        1       1       2       0       1
(anonymous)@50-50@src/controller/RocketController.ts
        7       2       45      0       7
deleteRocket@46-52@src/controller/RocketController.ts
        7       3       37      0       7
origin@6-12@src/middleware/config/CorsConfig.ts
```

```
         1      2      42      1       1
format@5-5@src/middleware/log/Logger.ts
         1      2      52      1       1
format@10-10@src/middleware/log/Logger.ts
         1      1      15      1       1
format@18-18@src/middleware/log/Logger.ts
         1      1      15      1       1
format@22-22@src/middleware/log/Logger.ts
         5      1      33      3       5
constructor@15-19@src/model/Crewman.ts
         1      1      7       0       1 ManyToMany@13-13@src/model/Crew.ts
         1      1      7       0       1 OneToOne@20-20@src/model/Launch.ts
         1      1      11      0       1
(anonymous)@24-24@src/model/Launch.ts
         7      1      24      3       7
constructor@12-18@src/model/Rocket.ts
         3      1      19      0       3
crewmanServiceGetCrewmans@7-9@src/service/CrewmanService.ts
         3      1      21      1       3
crewmanServiceGetCrewman@11-13@src/service/CrewmanService.ts
         3      1      21      1       3
crewmanServiceCreateCrewman@15-17@src/service/CrewmanService.ts
         6      1      54      2       8
crewmanServiceUpdateCrewman@19-26@src/service/CrewmanService.ts
         3      1      20      1       3
crewmanServiceDeleteCrewman@28-30@src/service/CrewmanService.ts
         4      1      24      0       4
crewServiceGetCrews@11-14@src/service/CrewService.ts
         5      2      37      1       7
crewServiceGetCrew@16-22@src/service/CrewService.ts
         2      2      4       0       2
(anonymous)@27-28@src/service/CrewService.ts
         1      1      6       0       1
(anonymous)@28-28@src/service/CrewService.ts
         1      3      19      0       1
(anonymous)@30-30@src/service/CrewService.ts
         12     3      75      1       16
crewServiceCreateCrew@24-39@src/service/CrewService.ts
         2      2      4       0       2
(anonymous)@50-51@src/service/CrewService.ts
         1      1      6       0       1
(anonymous)@51-51@src/service/CrewService.ts
         1      3      19      0       1
(anonymous)@53-53@src/service/CrewService.ts
         13     4      102     2       19
crewServiceUpdateCrew@41-59@src/service/CrewService.ts
```

```
     3       1      20       1        3
crewServiceDeleteCrew@61-63@src/service/CrewService.ts
     3       1      20       0        3
launchServiceGetLaunchs@12-14@src/service/LaunchService.ts
     4       2      34       1        4
launchServiceGetLaunch@17-20@src/service/LaunchService.ts
    20       9     140       1       26
launchServiceCreateLaunch@22-47@src/service/LaunchService.ts
    20      10     216       2       27
launchServiceUpdateLaunch@49-75@src/service/LaunchService.ts
     3       1      20       1        3
launchServiceDeleteLaunch@77-79@src/service/LaunchService.ts
     3       1      19       0        3
rocketServiceGetRockets@9-11@src/service/RocketService.ts
     4       2      31       1        4
rocketServiceGetRocket@13-16@src/service/RocketService.ts
     3       1      29       1        3
rocketServiceCreateRocket@18-20@src/service/RocketService.ts
     5       1      46       2        7
rocketServiceUpdateRocket@22-28@src/service/RocketService.ts
     3       1      20       1        3
rocketServiceDeleteRocket@30-32@src/service/RocketService.ts

(31 file analyzed.)

==================================================================
NLOC    Avg.NLOC  AvgCCN  Avg.token  function_cnt    file
------------------------------------------------------------------
    30      4.5      1.0       36.5          2       src/api.ts
    48      4.2      1.5       23.8         10
src/controller/CrewController.ts
    48      4.2      1.5       23.8         10
src/controller/CrewmanController.ts
    48      4.2      1.5       23.8         10
src/controller/LaunchController.ts
    54      4.2      1.5       23.8         10
src/controller/RocketController.ts
    18      0.0      0.0        0.0          0
src/database/config/dataSourceConfig.ts
    30      0.0      0.0        0.0          0
src/database/migrations/1682003185225-create-entities.ts
    19      0.0      0.0        0.0          0       src/dto/CrewDto.ts
    18      0.0      0.0        0.0          0
src/dto/CrewmanCrewDto.ts
    18      0.0      0.0        0.0          0       src/dto/CrewmanDto.ts
    31      0.0      0.0        0.0          0       src/dto/LaunchDto.ts
```

```
    15      0.0     0.0       0.0        0      src/dto/RocketDto.ts
    16      7.0     3.0      37.0        1
src/middleware/config/CorsConfig.ts
    24      1.0     1.5      31.0        4
src/middleware/log/Logger.ts
    11      0.0     0.0       0.0        0
src/middleware/router/CrewmanRouter.ts
    11      0.0     0.0       0.0        0
src/middleware/router/CrewRouter.ts
    11      0.0     0.0       0.0        0
src/middleware/router/LaunchRouter.ts
    11      0.0     0.0       0.0        0
src/middleware/router/RocketRouter.ts
    18      5.0     1.0      33.0        1      src/model/Crewman.ts
    24      1.0     1.0       7.0        1      src/model/Crew.ts
    38      1.0     1.0       9.0        2      src/model/Launch.ts
    18      7.0     1.0      24.0        1      src/model/Rocket.ts
    38      0.0     0.0       0.0        0
src/repository/CrewmanRepository.ts
    33      0.0     0.0       0.0        0
src/repository/CrewRepository.ts
    28      0.0     0.0       0.0        0
src/repository/LaunchRepository.ts
    10      0.0     0.0       0.0        0
src/repository/Repository.ts
    37      0.0     0.0       0.0        0
src/repository/RocketRepository.ts
    29      3.6     1.0      27.0        5
src/service/CrewmanService.ts
    54      4.1     2.1      28.7       11
src/service/CrewService.ts
    66     10.0     4.6      86.0        5
src/service/LaunchService.ts
    30      3.6     1.2      29.0        5
src/service/RocketService.ts


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No thresholds exceeded (cyclomatic_complexity > 15 or nloc > 1000000 or
length > 1000 or parameter_count > 100)

========================================================================
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Total nloc   Avg.NLOC  AvgCCN  Avg.token   Fun Cnt  Warning cnt   Fun Rt
nloc Rt
```


884	4.3	1.7	29.4	78	0	0.00
0.00						