



# RACE ORGANIZER

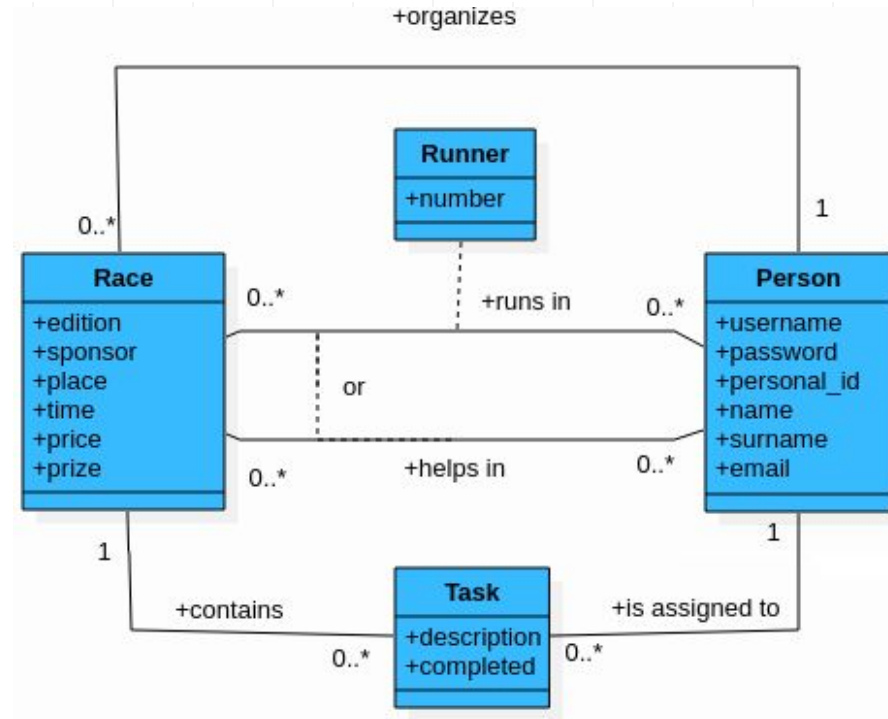
Group 8

# Index

1. Purpose of the Application and its Architecture
2. Brief description of the process using SCRUM
3. Description of the use of YouTrack for Scrum and the integration with GitHub
4. Description of the use of Maven
5. Unit, Coverage and Performance Testing
6. Continuous Integration
7. Use of Doxygen and SLF4j
8. Use of Swagger
9. Events and Difficulties

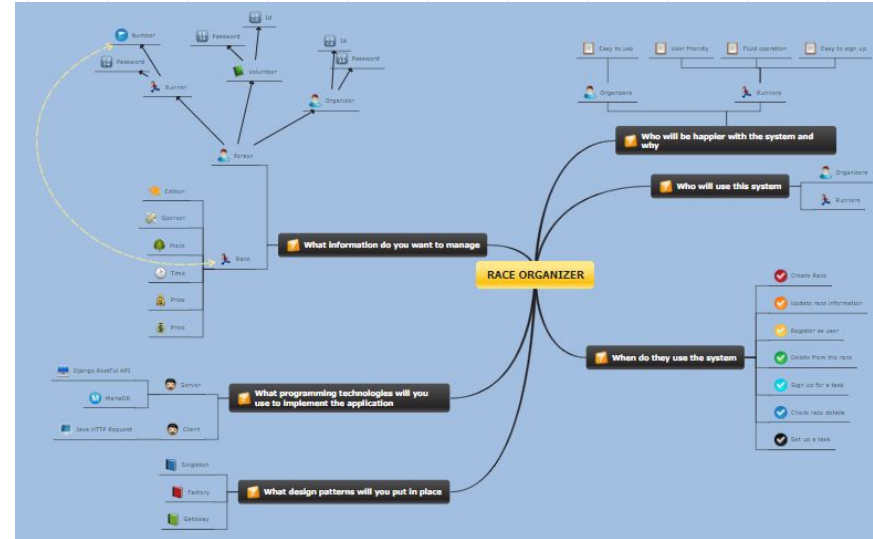
# Purpose of the Application and its Architecture

- Sign up into a race
- Manage Race information
- Manage tasks
- REST client-server architecture
- Server on Django
- Client written in Java
- MariaDB

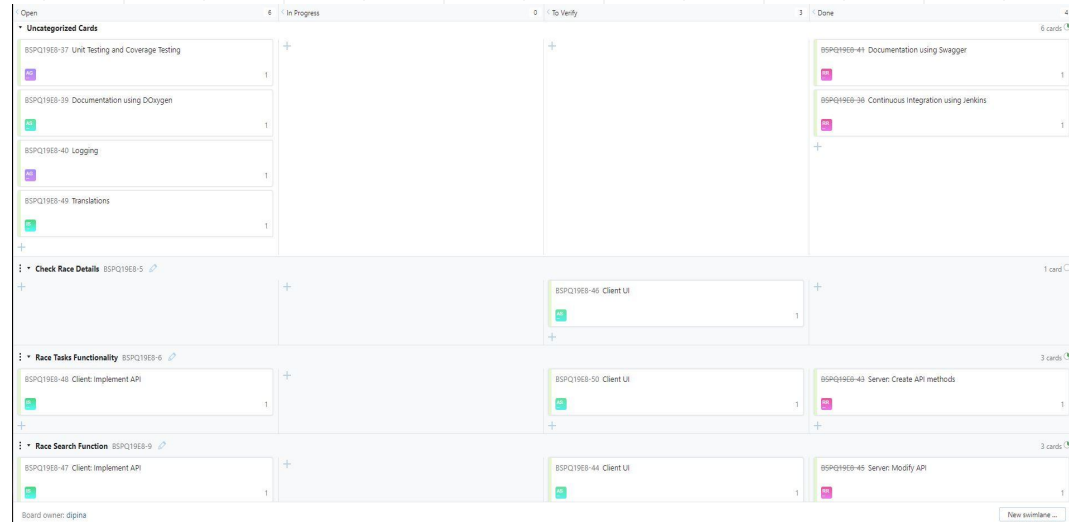
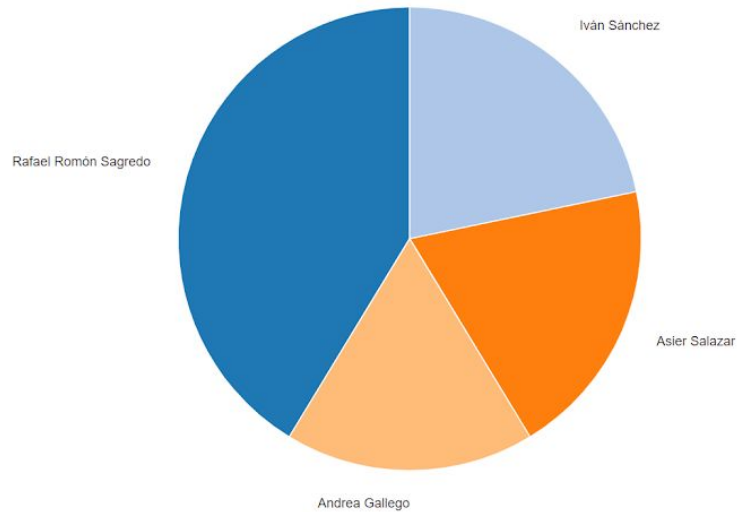


# Brief description of the process using SCRUM

- Product owner
- Scrum master
- Product backlog
- Architecture
- Mindmap
- 3 sprints of 2 weeks - Meetings
  - Planning
  - Review
  - Retrospective



# Description of the use of YouTrack for Scrum and the integration with GitHub



# Description of the use of Maven

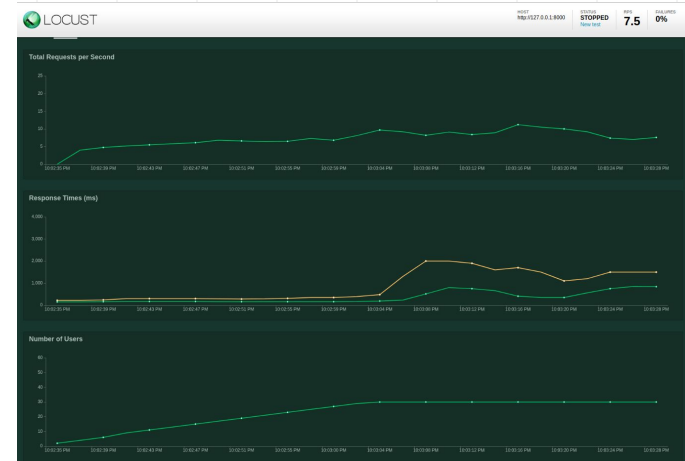
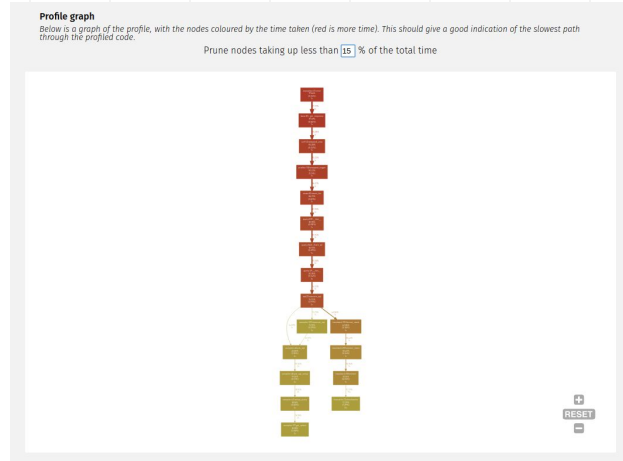
- Run Client
- Run Tests
- Dependencies/Plugins
  - HttpComponents
  - commons-logging
  - JUnit

```
<version>1.11</version>
</dependency>
<!-- https://mvnrepository.com/artifact/commons-logging/commons-logging -->
<dependency>
  <groupId>commons-logging</groupId>
  <artifactId>commons-logging</artifactId>
  <version>1.2</version>
</dependency>
<!-- https://mvnrepository.com/artifact/org.apache.httpcomponents/fluent-hc -->
<dependency>
  <groupId>org.apache.httpcomponents</groupId>
  <artifactId>fluent-hc</artifactId>
  <version>4.5.8</version>
</dependency>
<!-- https://mvnrepository.com/artifact/org.apache.httpcomponents/httpclient-cache -->
<dependency>
  <groupId>org.apache.httpcomponents</groupId>
  <artifactId>httpclient-cache</artifactId>
  <version>4.5.8</version>
</dependency>
```

# Unit, Coverage and Performance Testing

- Server Test → 93% Coverage
- Performance Testing using Locust
- Profiling silk

100% files, 93% lines covered in 'api'	
Element	Statistics, %
migrations	100% files, 100% lines covered
__init__.py	
admin.py	100% lines covered
apps.py	100% lines covered
models.py	83% lines covered
tests.py	100% lines covered
urls.py	100% lines covered
views.py	90% lines covered



# Continuous Integration



 Some checks haven't completed yet  
1 queued, 1 pending, and 2 successful checks

[Hide all checks](#)

-  **Travis CI - Pull Request** Queued — Build Created [Details](#)
-  **continuous-integration/travis-ci:pr** Pending — The Travis CI build is in progress [Details](#)
-  **Travis CI - Branch** Successful in 45s — Build Passed [Details](#)
-  **continuous-integration/travis-ci:push** — The Travis CI build passed [Details](#)

 **BSPQ18-19 / BSPQ19-E8**  build passing




Current [Branches](#) Build History Pull Requests

More options 

## Default Branch

✓ master 16 builds	# 20 passed 2 days ago	c96264b  Rafael Romón	✓	✓	✓	✓	✓
-----------------------	---------------------------	---	---	---	---	---	---

## Active Branches

✓ client 13 builds	# 46 passed 33 minutes ago	3b72d85  ivykoko1	✓	✓	✓	✓	✓
✓ dev 3 builds	# 32 passed a day ago	e52bb3c  Rafael Romón	✓	✓	✓		
✓ server 8 builds	# 30 passed a day ago	69d34d0  Rafael Romón	✓	✓	!	✓	✗



# Use of Doxygen and SLF4j

- Doxygen is an automated multi-language doc generator.
- It allows to export docs to PDF, LaTeX or HTML.
- Simple Logging Facade for Java (SLF4J) serves as a simple facade or abstraction for various logging frameworks such as Log4j, which we have used.



# Use of Swagger

- Swagger makes it easy to visualize RESTful APIs and their responses.
- Documentation for the API follows the OpenAPI standard

racess Operations about Races

GET /api/races Get list of all races

POST /api/races Add new race

GET /api/races/{race\_id} Get race by ID

POST /api/races/{race\_id}/add\_runner Adds new Runner to a Race

POST /api/races/{race\_id}/add\_helper Adds new Helper to a Race

GET /api/races/{race\_id} Get race by ID

```
{
  "race_id": 0,
  "edition": "string",
  "sponsor": "string",
  "place": "string",
  "time": "2019-05-20T06:16:14.889Z",
  "price": 0,
  "prize": 0,
  "organizer": {
    "user_id": 0,
    "username": "string",
    "first_name": "string",
    "last_name": "string",
    "email": "string"
  },
  "runners": [
    {
      "user_id": 0,
      "username": "string",
      "first_name": "string",
      "last_name": "string",
      "email": "string",
      "number": 0
    }
  ]
}
```

# Events and Difficulties

- Main difficulty: integration and learning new technologies.
- Lack of communication makes integration between two different platforms more difficult.
- Server DB creation difficulties using MySQL instead of MariaDB.
- Adapting to use a project management tool, like YouTrack.
- Time management.