

Rekonfigurowalność e-systemów

Repozytorium dla projektów OpenSource w języku
Scala - scalajars.org

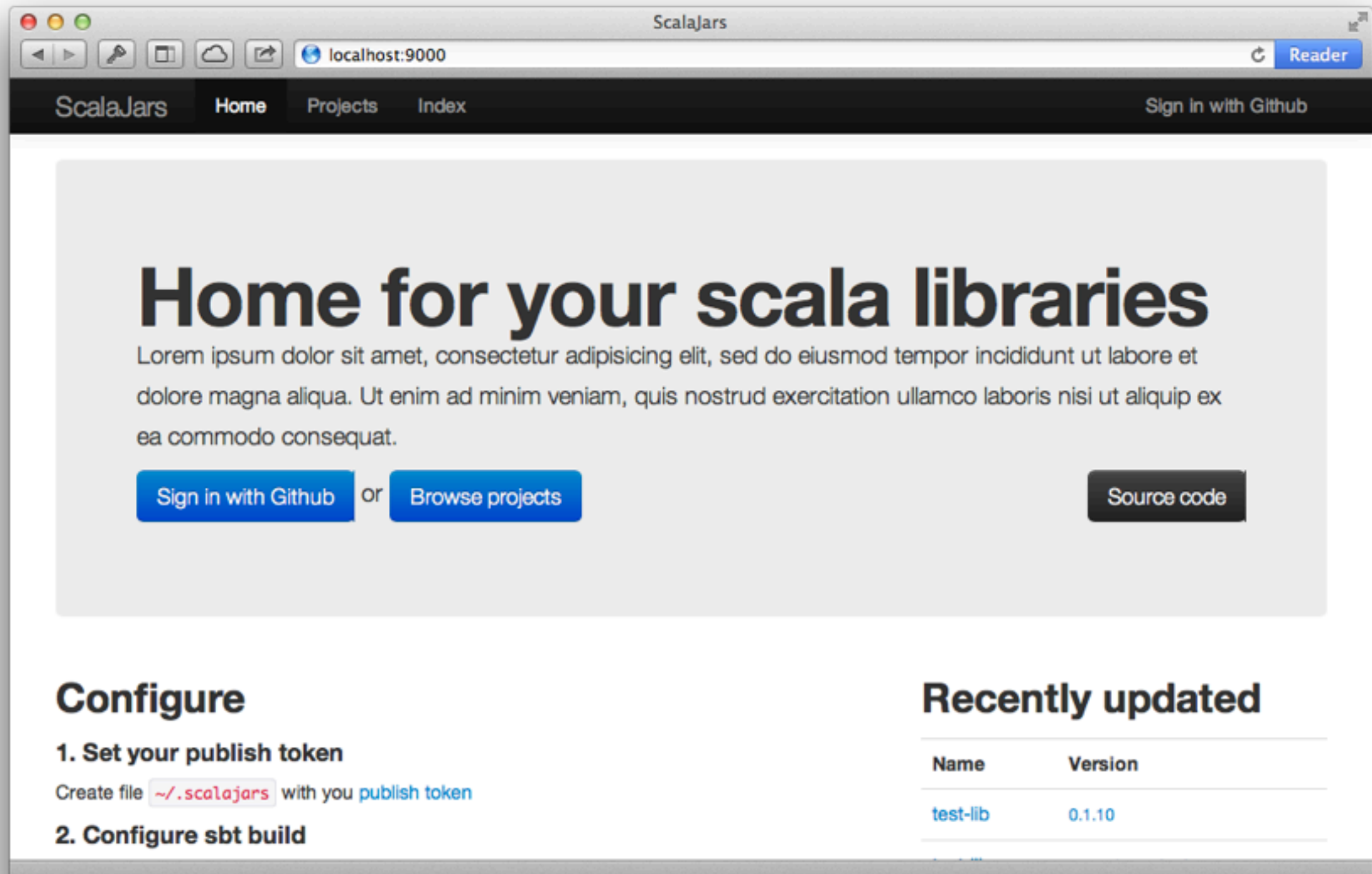
Tymon Tobolski
181037

Środowisko testowe

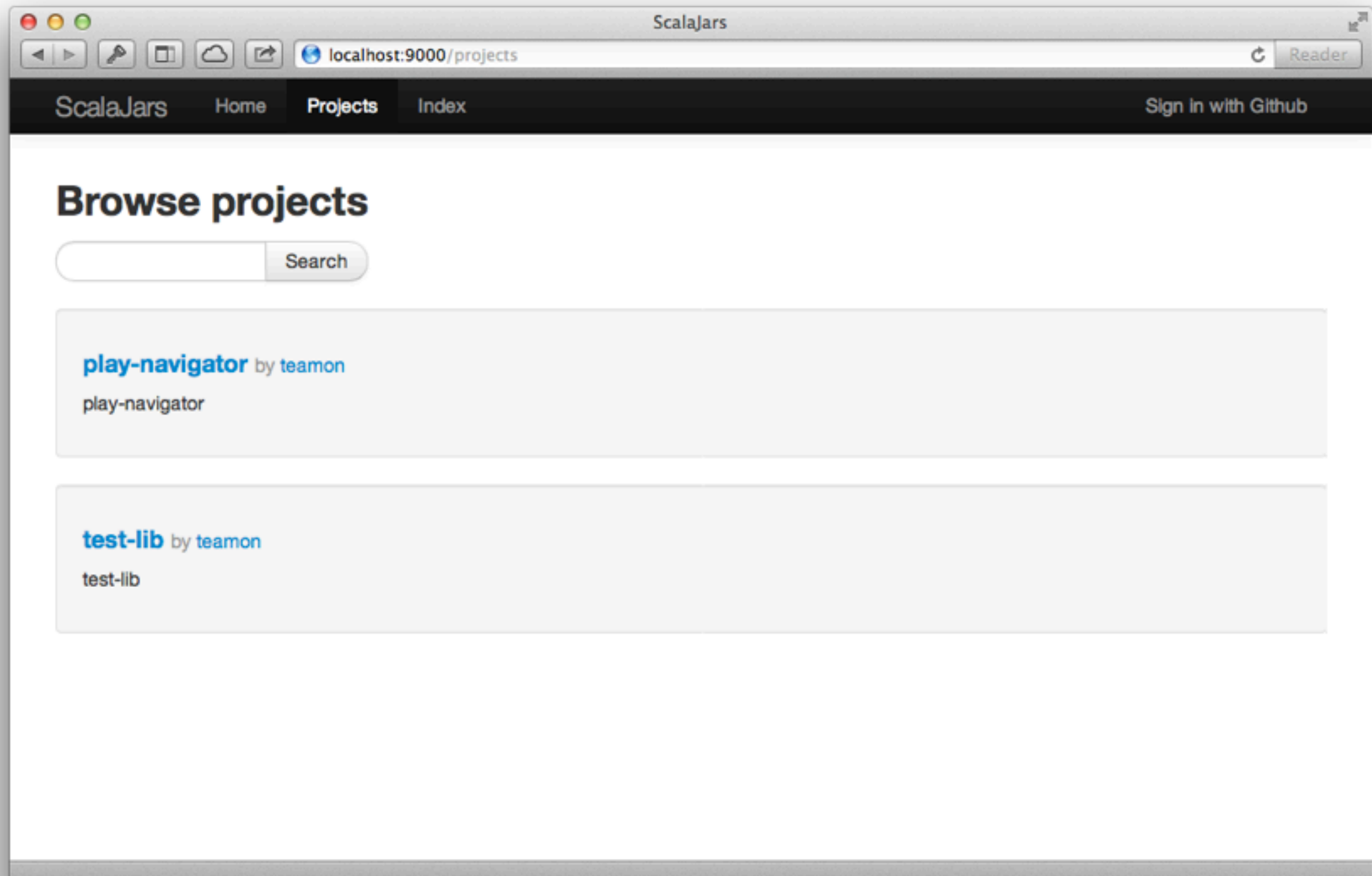
- Intel Core i7 - 8 rdzeni x 3.0 GHz
- 8 Gb RAM
- Debian
- Gatling Tool

Symulacja

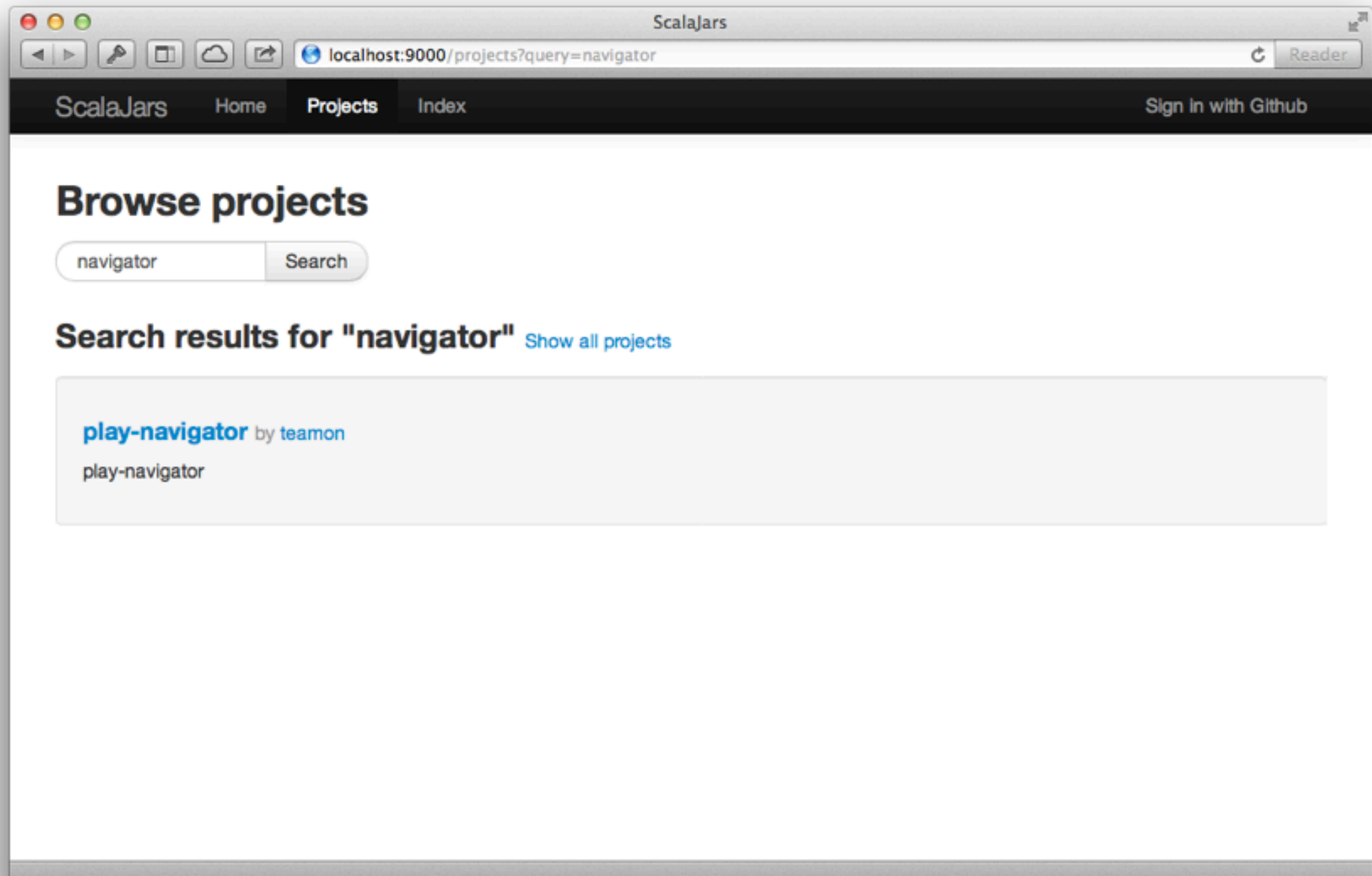
Strona główna



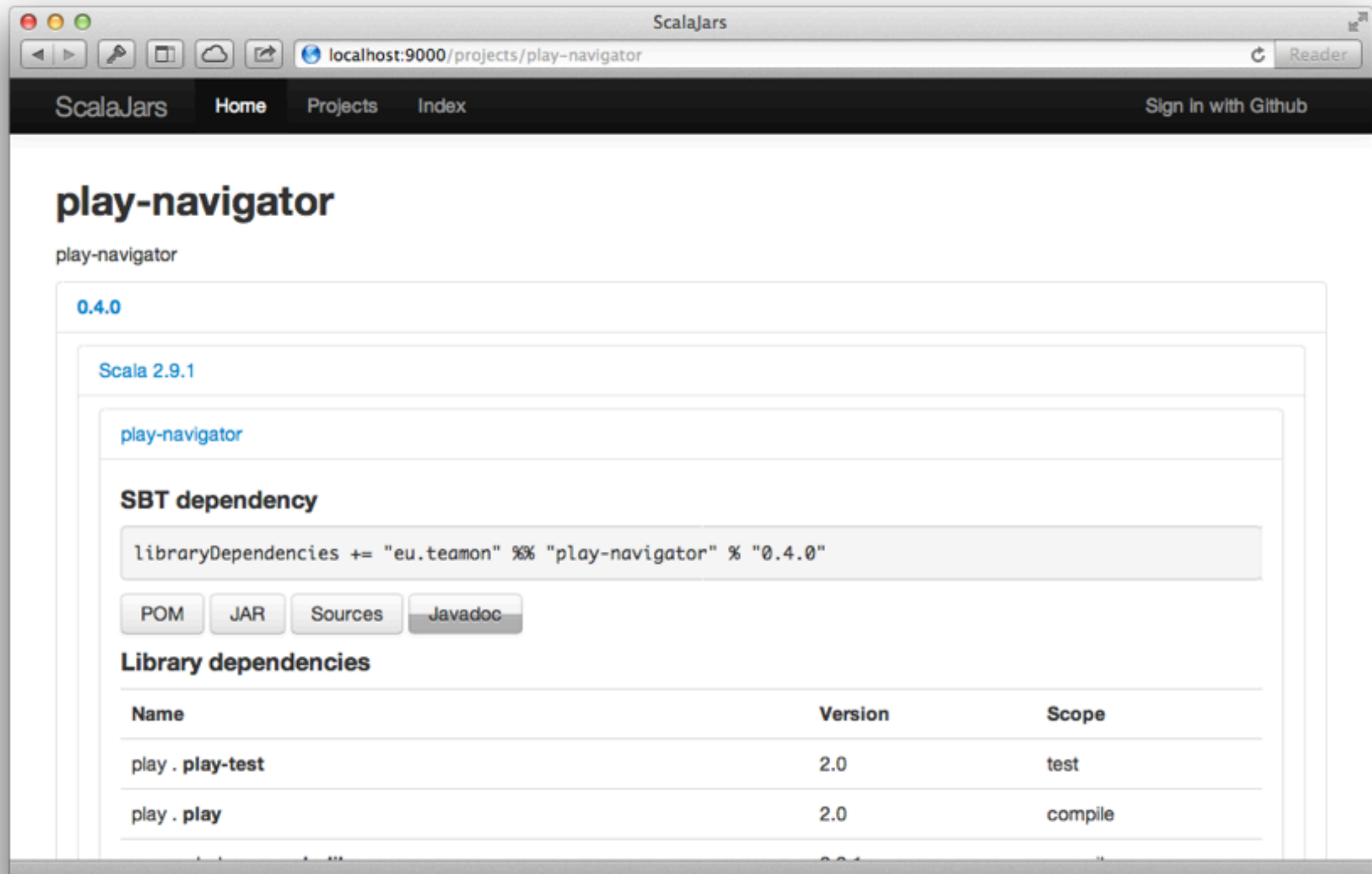
Lista projektów



Wyszukiwanie projektu



Szczegóły projektu



The screenshot shows a web browser window with the address bar at `localhost:9000/projects/play-navigator`. The page title is "play-navigator" and the version is "0.4.0". The page is part of the ScalaJars project, as indicated by the navigation bar. The main content area shows the SBT dependency for the project, which is `libraryDependencies += "eu.teamon" %% "play-navigator" % "0.4.0"`. Below this, there are buttons for "POM", "JAR", "Sources", and "Javadoc". The "Library dependencies" section is also visible, showing a table with columns for Name, Version, and Scope.

ScalaJars Home Projects Index Sign In with Github

play-navigator

play-navigator

0.4.0

Scala 2.9.1

play-navigator

SBT dependency

```
libraryDependencies += "eu.teamon" %% "play-navigator" % "0.4.0"
```

POM JAR Sources Javadoc

Library dependencies

Name	Version	Scope
play . play-test	2.0	test
play . play	2.0	compile

Symulacja

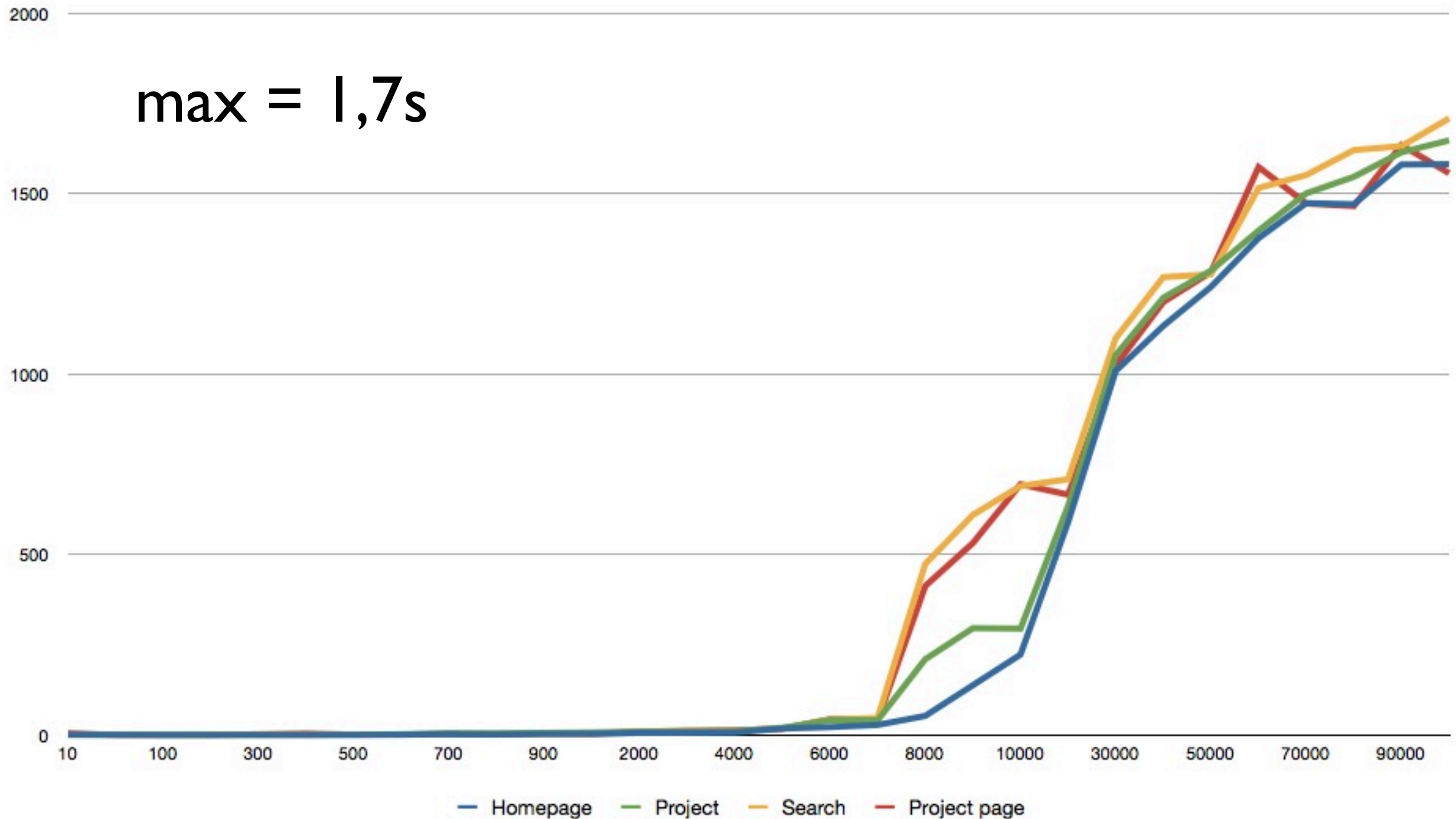
```
class ProjectSearchSimulation extends Simulation {  
  
  def apply = {  
    val httpConf = httpConfig  
      .baseUrl("http://localhost:6020")  
      .acceptHeader("text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8")  
      .acceptLanguageHeader("en-us,en;q=0.5")  
      .acceptEncodingHeader("gzip, deflate")  
      .userAgentHeader("Mozilla/5.0 (Macintosh; Intel Mac OS X 10.8; rv:15.0) Gecko/20100101 Firefox/15.0.1")  
      .hostHeader("scalajars.org")  
  
    val scn = scenario("Project search")  
      .exec(http("Homepage").get("/"))  
      .pause(1)  
      .exec(http("Projects").get("/projects"))  
      .pause(5)  
      .exec(http("Search").get("/projects").queryParams("query", "navigator"))  
      .pause(3)  
      .exec(http("Project page").get("/projects/play-navigator"))  
  
    scn.configure.users(System.getenv("N").toInt).ramp(10).protocolConfig(httpConf) :: Nil  
  }  
}
```


Symulacja

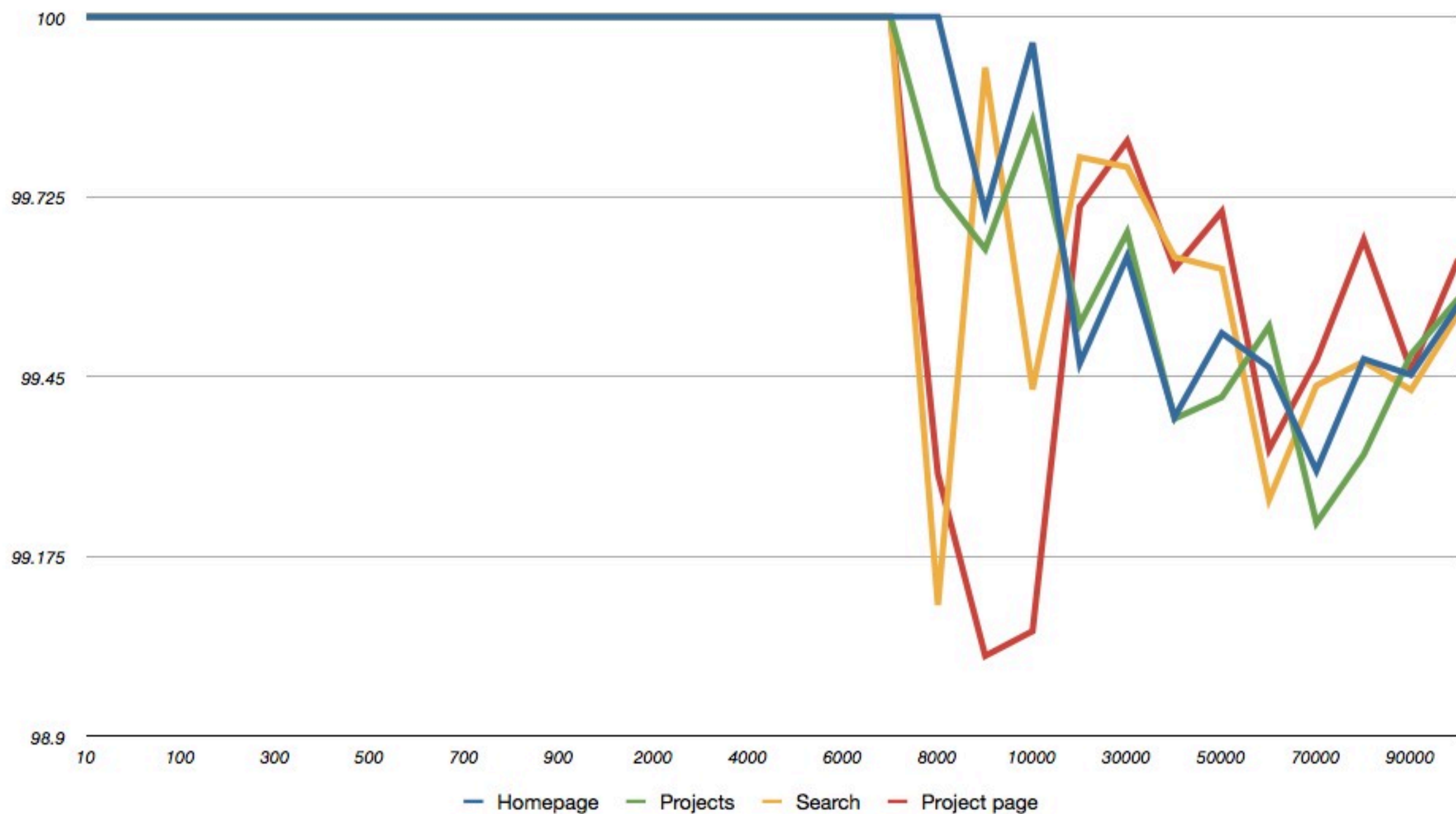
- Od 10 to 100.000 użytkowników
- Wszyscy startują w czasie $t < 10s$

Średni czas odpowiedzi

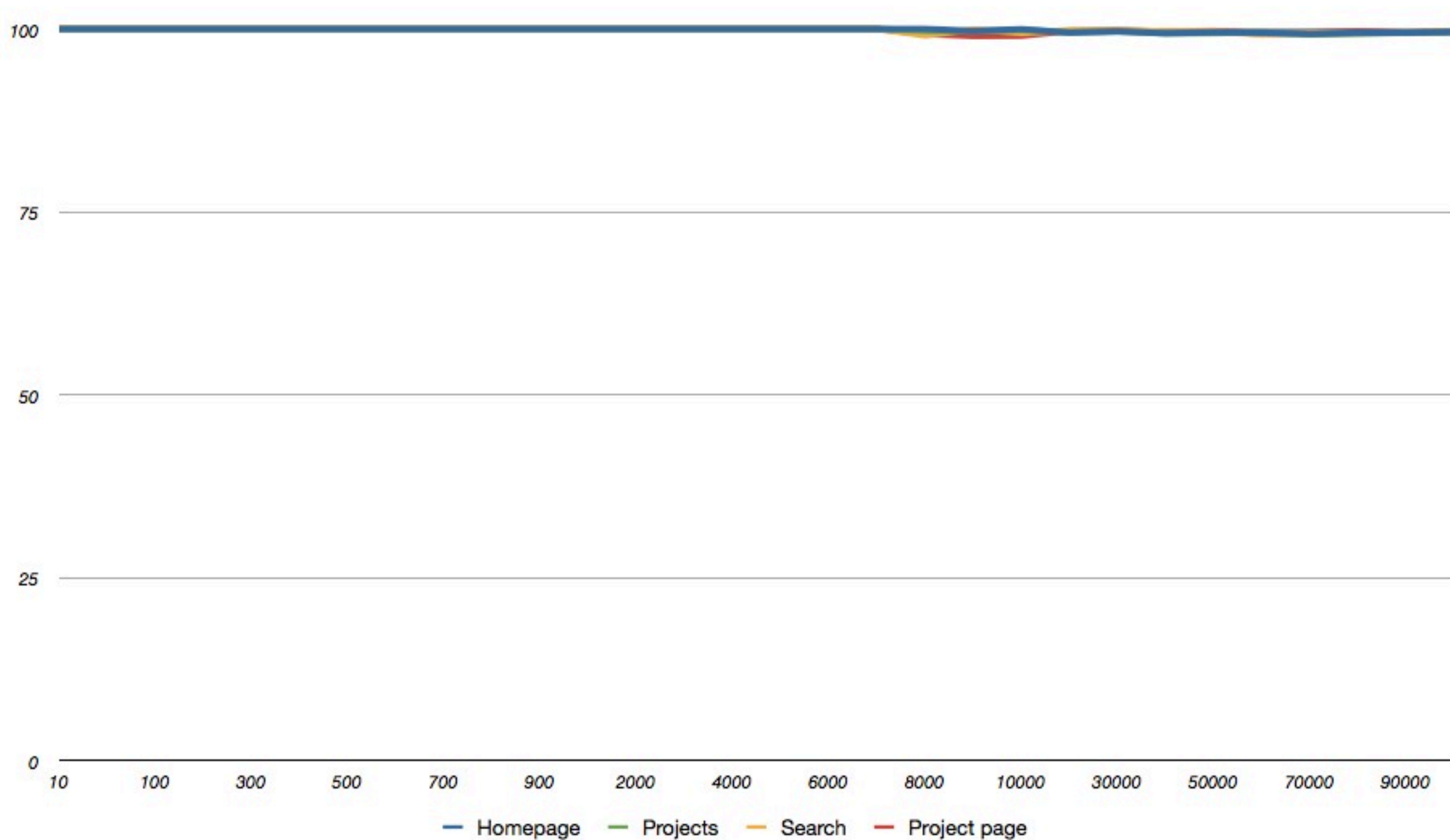
max = 1,7s



Gotowość



Gotowość



Wnioski

- 99% gotowości
- Szybki timeout ($< 2s$)

Wnioski

- JVM + Scala + akka == ♥
- Model aktorów + Asynchroniczne IO