YOOX NET-A-PORTER Group - Technical Test

DATE: June 30, 2016

FROM: YOOX NET-A-PORTER GROUP

SUBJECT: Technical Test – Back-End Developer (Robot Wars)

Author: Maksym Rybak (email: [rybak.maksym@gmail.com](mailto:rybak.maksym@gmail.com), cell: +393348890986)

Solution details

Used framework and programming language:

* Framework .NET 4.5
* C#

Used tools:

* VS2013 for development
* Github for code repository (url of provided solution: <https://github.com/MaksymRybak/RobotWars>)
* Git extension as client for Git

Used external dll/packages:

* LightInject – for IoC
* Moq and Castle – for mocking objects in unit tests
* NUnit – for unit testing
* SharpTestsEx – for write short assertions in unit tests

Solution contains 4 projects:

* RobotWars – main console application, contains logic used to bootstrap application (DTOs, mappers, bootstrap classes)
* RobotWars.Core – contains core modules as business objects (models), factories to instantiate models, enums, system wrappers.
* RobotWars.Core.Tests – contains tests relative to project RobotWars.Core
* RobotWars.Tests – contains tests relative to project RobotWars

As possible enhancement can be:

* Add logging using for example log4net
* Improve error management (using custom exceptions)
* Improve reading and parsing of input data