

User Documentation

Description

The application is a WPF desktop application. It can be found under the '`\TestTask\Executable`' in the .zip provided.

The application offer a basic user interface to process a race; from the participants selection to the final results processing and exporting of data into an XML format. The race is simulated by a third party simulator.

Application runing

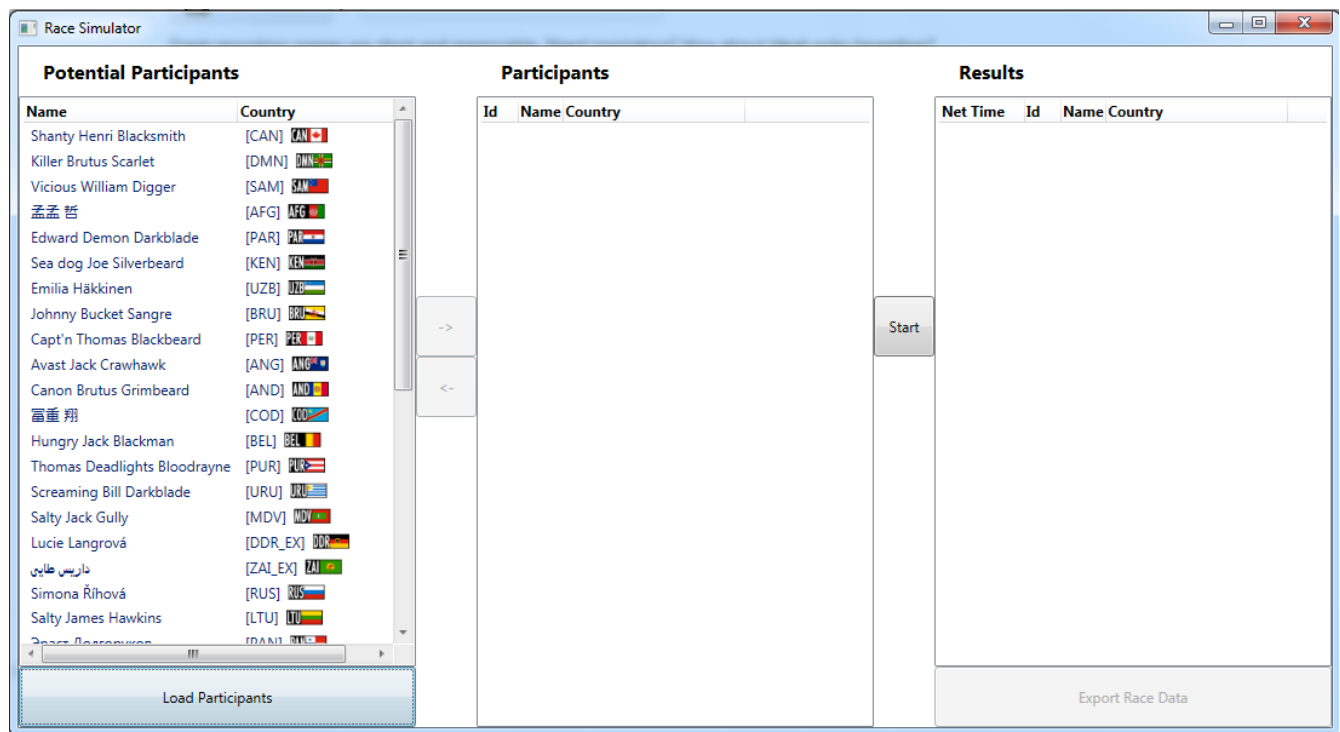
Starting the application

Double click on the 'TestTask' in the application file '`\TestTask\Executable`' folder. The UI will popup. For the application to work, the following files must be presents in the same folder:

- ThirdPartySimulator.dll
- TestTask.exe
- WindowsBase.dll

Using the application

1. Load the potential participants to the Race by clicking the "Load Participants" button and selecting an XML file in the appropriate format [2 files are provided in the 'Data' folder]
 1. root element must be `<EntryList>`
 2. each participant must be described as a `<Person>` node; composed of a `<Name>` and with an 'Id' and 'Country' attributes
2. Add the participants that will take part in the race by selecting one or many "Potential Participants" and clicking the '→' button.
/!\ The order of the selection in the 'Potential Participants' list view will determine the **Id** of the participant.
/!\ When a Participant is removed from the list (by selecting and clicking the '←' button), its previously assigned **Id** is preserved and reassigned to the next selected participant.



- Start the race by clicking the 'Start' button. The race start with the participants order according to their Id value (smaller is first).

The 'Results' list view is populated as the race is running:

- first section is filled with the participants that have finished the race, sorted according to their net time (smaller is first), then are the Abandon, Fault and Withdraw.

Net Time	Id	Name	Country
95	6	Simona Ři	[RUS]
95	8	Afamefula	[JER]
97,6	5	داریس طایی	[ZAI_EX]
99,1	3	Edward D	[PAR]
99,1	10	Милена К	[ISR]
Abandon			
-	4	孟孟哲	[AFG]
-	7	سایمان هسنگر	[FJI]
Fault			
-	1	富重翔	[COD]
-	2	Emilia Häk	[UZB]
Withdrawn			
-	9	Эраст До	[PAN]

Export Race Data

While the race is running, the 'Start' button is disabled.

4. Export Race Data: when the race ends, the results are available to be exported in XML format. The final exported file contains:
 1. the start time for the race
 2. the list of the participants with their **Name**, **Id** (identifier as a participant), **NetTime**, **Country** and **Id** (identifier as a person). It is not necessary to have a separate start list for the participants, as the starting order is determined by the Id.
5. User interaction & Feedback:
 1. The '->' & '<-' are enabled only when items are selected in the list view.
 2. If the user attempts to select more than 10 participants, a dialog box will inform that the maximum number of participants is of '10'.
 3. Loading a new list of "Potential Participants" while the race is running is possible and will not disturb the running of the race nor the displaying & exporting of the race results.
 4. If the user attempts to export data while the race is running, a pop-up dialog will inform that the race has not ended yet and the exporting is not yet available.
 5. When the race ends, a pop-up dialog notifies the user that the race has ended.
 6. If the user attempts to start a new race without having exported the data of the previous race, a confirmation dialog will ask for user confirmation, before erasing the previous race results and processing with the new race.