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ASPARK-STARTER

1. WHAT IS IT ?!

A demo application which will help you to grasp the Apache Spark concept.

2. INSTALLATION AND CONFIGURATION

This section presents the steps needed to perform to deploy the aspark-starter tool. Note, that the commands are for Ubuntu, thus if you are on different OS choose, google the names of the packages applicable for your OS.

2.1. Ensure you have the following prerequisite binaries

The must have binaries are:

bash, perl, zip

The nice to have are:

tmux, vim ,ctags

The examples are for Ubuntu - use you OS package manager ...

apt-get autoclean
apt-get install --only-upgrade bash
sudo apt-get install -y perl
sudo apt-get install -y zip
apt-get upgrade

create your product dir:

DO NOT CD into the new dir !!!!

2.2. Fetch the source - option 1

Fetch the source from git hub as follows:

mkdir -p /opt/csitea/
cd /opt/csitea/
fetch the source
git clone git@github.com:YordanGeorgiev/aspark-starter.git

2.3. Ensure you have all the prerequisite binaries

Ensure you have all the prerequisite binaries by issuing the following command

bootstrap the product instance dir bash aspark-starter/src/bash/aspark-starter/install-prerequisites-for-aspark-starter-on-ubuntu.sh

2.4. Build the first aspark-starter instance

Build the aspark-starter instance by running the bootstrap script

bootstrap the product instance dir bash aspark-starter/src/bash/aspark-starter/bootstrap-aspark-starter.sh # the script should prompt you to cd

2.5. Check the runnable actions

You could check the functions which could be run - aka "actions" by issuing the following command.

```
# check the runnable with the -a cmd arg actions
find . -name '*.func.sh' | sort
```

2.6. Run the examples

You can run all the examples by first checking which actions are configured for the next test run and perform the actual test run as follows:

```
# check the actions to run
 cat src/bash/aspark-starter/tests/run-aspark-starter-tests.lst
# STDOUT
# sbt-compile-verbose
# sbt-clean-compile
# sbt-compile
# sbt-stage
# sbt-run
bash src/bash/aspark-starter/test-aspark-starter.sh
# now the tool will start producing output
# 2017-09-14 08:26:11 START test-aspark-starter test run report
# result start-time stop-time action-name
   ok 08:26:11 08:26:59 sbt-compile-verbose
   ok 08:27:00 08:27:25 sbt-clean-compile
   ok 08:27:25 08:27:34 sbt-compile
   ok 08:27:35 08:27:49 sbt-stage
   ok 08:27:49 08:27:59 sbt-run
```

2.7. Start hacking

Start hacking ... or wait check at least the test call running all the functions of the tool ...

```
# opionally if you are in the vim camp open the "project relative files list file"
vim meta/.dev.aspark-starter

# Ctrl + Z , to put it on the backgound
# check the actions to test ( uncoment line in include in test run )
less src/bash/aspark-starter/tests/run-aspark-starter-tests.lst

# Ctrl + Z to put in the background
# Action !!! - aka now run the tests
bash src/bash/aspark-starter/test-aspar-starter.sh
```

2.7.1. **Build and**

compile

Build and compile

bash src/bash/aspark-starter/aspark-starter.sh -a sbt-compile

2.7.2. Run the

example

Run the example

bash src/bash/aspark-starter/aspark-starter.sh -a run-local-app

3. PROJECT STATUS

You could track the advancement of the project from the following url:

https://docs.google.com/spreadsheets/d/e/2PACX-1vR0wo5N32EpubwxBfeFxi6X-

eOmXwOPg4WSyA4gBSz1Yu0EyU34jl0xlCgWzrFUSeEA aC4RF7LRgx9/pubhtml

Note that the content on the url is updated on project actual status update (i.e. meaningful work or milestones & tasks comppletion)

4. ADDITIONAL DOCUMENTATION

You can find the full installation and operations instructions in the docs/md dir of the project:

The UserStories:

 $\underline{https://github.com/YordanGeorgiev/aspark-starter/blob/master/doc/md/aspark-starter-user-stories.md}$

The Requirements:

https://github.com/YordanGeorgiev/aspark-starter/blob/master/doc/md/aspark-starter-requirements.md The DevOps Guide:

 $\underline{https://github.com/YordanGeorgiev/aspark-starter/blob/master/doc/md/aspark-starter-devops-guide.md}$

The Features and Functionalities Description:

https://github.com/YordanGeorgiev/aspark-starter/blob/master/doc/md/aspark-starter-features-and-functionalities.md

The same files could be retrieved in pdf format from the doc/pdf dir of the project.