

## Homework 6 – Advanced Software Service Engineering (Fall 2017)

**Deadline:** Dec. 4<sup>th</sup>, 2017 at 1:59 PM.

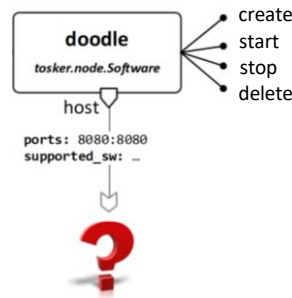
Solution code **MUST** be submitted to Moodle<sup>1</sup> as a single *surname\_name\_hw6.zip* file.

All submissions will be checked for **plagiarism**. Plagiarised solutions will be awarded with an F (0) grade.

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**Exercise** – Download the Doodle Primer from the Moodle<sup>1</sup>.

(1) Complete the `doodle.yaml` file that describes the Doodle application developed in Lab 1.



(2) Complete the four shell scripts to create, start, stop and delete the Doodle application, so that:

- `create_doodle.sh` moves to the main project folder and run Maven to package the application into a jar file,
- `start_doodle.sh` runs the jar file obtained at (1),
- `stop_doodle.sh` retrieves the process id of the Java instance currently running (`pidof`) and kills it (`kill -9`),
- `delete_doodle.sh` removes the project main folder.

(3) Submit the `doodle.yaml`, the `doodle.completed.yaml` files and the four scripts (`create_doodle.sh`, `start_doodle.sh`, `stop_doodle.sh`, `delete_doodle.sh`), along with a brief report (250 words max) in which you show the step-by-step running of TosKeriser and TosKer over the Doodle application (as in the class slides annotated with “\*”).

### Learning Outcomes

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- ✓ Learn about TOSCA Yaml.
- ✓ Learn on TosKer.
- ✓ Learn on TosKeriser and orchestration with TOSCA and Docker.

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<sup>1</sup> <https://elearning.di.unipi.it/course/view.php?id=106>