Software Engineering
MSc in Engineering in Computer Science
Sapienza Università di Roma

Programming test – July 20, 2020 – Duration 90 mins

The student is required to develop:

- a **RESTful service**, which exposes data about a `Movie` and a collection of `Movies`. The features of a movie are the `title` (a String), a `director` (represented as a String), a `year` of production (again represented as a String) and an `ID` (unique identifier). Please initialize the Web service with at least 15 movies.

  In developing the service, please adopt all simplifications you may deem necessary, and in particular adhere to the simple method(s) presented in classes and lab lessons. The exact design of the interface of the service is up-to-you.

  > *It is required to use a simple database, and to create also a simple external Java program for creating and managing the database (as seen during the lab lessons). The database should have two tables:*
  > *MOVIES (ID, title, year, directorID)*
  > *DIRECTORS (ID, name, yearOfBirth)*
  > *where directorID is a foreign key from MOVIES to DIRECTORS (it allows to link the data of the director to his/her movies)*

- **a simple client** which:
    - allows the user to retrieve the list of all movies, and for each of them to show all its details (including the name of the director and his/her year of birth)