## Internet Multimedia Engineering

#### EXAM

### Internet Programming

Alex Carrega – aless and ro. carrega@unige.it $13^{th}$  June 2024

# Group A

Implement a series of **REST API** functionalities for a simple task management system. In more details, it is necessary to define:

- an **entity** to represent **tasks**;
- an **entity** to represent the task **categories**;
- a relationship to represent the tags.

In particular, in each task must be present the following data:

- status (completed or not);
- date of completion (or *none* if not yet completed);
- belonging category (exactly 1);
- · zero or more tags.

For **each question** the following **bonus** are applied:

- 0.50 points if the code is correctly indented;
- 1.00 points if the variable names are related to the context (it is more simple the understanding of the code):

#### Examples

- If I have to **refer to the book entity model**, the **correct name** can be book, books, etc. and **not** entity\_1, entity\_a, or entityA;
- If I have to refer to the book customer relationship model, the correct name can be BookCustomer, book\_customer, etc. and not relationship\_1, relationship\_2, or relationshipA;

- 0.50 **points** if the **variable** and **function names** are written in **english** (**de-facto standard** in the **programming**);
- 0.75 **points** if the **code** is well **commented** in **english** (**improves** the **understanding** of the **code**).
- 6 Points 1. Creation, update, deletion of a task.
- 6 Points 2. Creation, update, deletion of a category.
- 13 Points 3. Creation, update, deletion of a tag.
  - 5 Points 4. Add a standard authorization mechanism to all the functions defined in the REST APIs