Internet Multimedia Engineering

Exam

Internet Programming

Alex Carrega – *alessandro.carrega@unige.it*

22nd May 2024

Group A

Implement a series of functions necessary to catalog library books via **REST API**. In more details, it is necessary to define:

- an **entity** to represent **books**;

- an **entity** to represent the various library **customers** (*readers*);

- a **relationship** to represent the **loan of a book to a reader**.

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_a`, 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. **Registration**, **update**, **deletion** of a **new book**.

6 Points   2. **Registration**, **update**, **deletion** of a **new customer**.

13 Points   3. **Registration**, **update**, **deletion** of a **loan**.

5 Points   4. Add a **standard authorization mechanism** to all the functions defined in the **REST APIs**.