

Web Applications A.Y. 2022-2023
Homework 1 – Server-side Design and Development

Master Degree in Computer Engineering
Master Degree in Cybersecurity
Master Degree in ICT for Internet and Multimedia

Deadline: 28 April, 2023

Group Acronym	ACME	
Last Name	First Name	Badge Number
Asgharian Shirvan	Saeid	2089602
Borsato	Alessandro	2089108
Campagnol	Andrea	2091178
Cardillo	Vittorio	2091429
Lenartavicius	Vaidas	2092135
Maglie	Mattia	2095330
Marcato	Francesco	2082155
Pallante	Laura	2092566
Talukder	Md Imran Faruck	2041440
Villani	Matteo	2090299
Zago	Giovanni	2087645

1 Objectives

This project is intended to be a Web App that will be used by ESN Padova, an active section of ESN Italia. It would help them to streamline and facilitate tasks of registering members and maintaining a membership list different every year (currently made by volunteers). The use of a web application would then likely increase the visibility of its events to international students and make it easier to register for events organized by ESN Padua, just from their smartphones.

Furthermore, that allows volunteers to manage events and Erasmus students, since there is the opportunity to join some events only if you're a member of ESN Padova (that corresponds in getting an ESNcard and pay a fee).

At the moment, subscription is made with a paper form, the payment by cash or POS and the overall database is a spreadsheet. Events are managed by communication manager, who post them on Instagram, website and Facebook group. Mainly former platform.

As result, this is a very time consuming process, that requires a lot of effort from volunteers and, what is more, it is not very efficient.

Overall goal is to facilitate the process and build a stronger database.

2 Main Functionalities

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3 Data Logic Layer

3.1 Entity-Relationship Schema

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3.2 Other Information

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4 Presentation Logic Layer

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4.1 A page

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5 Business Logic Layer

5.1 Class Diagram

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5.2 Sequence Diagram

5.3 REST API Summary

URI	Method	Description	Filter
What is the URI?	What HTTP method uses?	Describe briefly the result of calling the URI	is it behind a filter?

Table 2: Describe in this table your REST API

5.4 REST Error Codes

Error Code	HTTP Status Code	Description
Error Code Identifier	Corresponding HTTP Status Code	Description of the error

Table 3: Describe in this table your REST API

5.5 REST API Details

A resource

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- URL: the URL to retrieve it
- Method: Method to retrieve it
- URL Parameters:
- Data Parameters:
- Success Response:
- Error Response:

6 Group Members Contribution

Saeid Asgharian Shirvan

Alessandro Borsato

Andrea Campagnol

Vittorio Cardillo

Vaidas Lenartavicius

Mattia Maglie

Francesco Marcato

Laura Pallante

Md Imran Faruck Talukder

Matteo Villani

Giovanni Zago