

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

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1 Objectives

The objective of this project is developing a web application that can help new and existing students in the University of Padova. The project will ensure that the products that the students need or no longer need are exchanged or sale/buying only among the students. In this way, it is aimed to ensure a reliable and fast shopping and to prevent fraud and being deceived with defective products.

2 Main Functionalities

XXXX is a web application that can only be used by students. Students will be able to register to the system with their "student e-mail addresses (.....@studenti.unipd.it)". This way, some of the user information will be visible, and a secure environment will be provided. In case of possible complaints, the user can be reported to the necessary authorities. This way, fraud can be prevented.

After registering to the web application, users can list their products for sale (paid/free/barter) based on their needs, or they can search for the product they need among the listed items for sale. The pages of the products for sale contain their own descriptions, visuals, and tags. This way, the buyer will have an idea about the product they will purchase. After the purchase, the buyer can leave a review about the seller, and the seller can be introduced to other buyers through their reviews, and they can act accordingly.

The website is divided in 2 main areas:

- Web application
 - Register with student e-mail adress
 - Create the user
 - Provide logout mechanism for logged in users
 - Provide sign up and login page
- User
 - Update the user information
 - Add profile picture
 - Seller Area:
 - * Create product
 - Update the post
 - Add title
 - Add descriptions
 - Add pictures
 - Add tags
 - Add category
 - Buyer Area:
 - * Search prouct
 - * Seller review

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

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