WebDev student project assignment (v1.2)

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1 Group composition

The group project is to be done in groups of 6 people, working on the project tasks in three sub-groups of 2 people each.

2 Project description

The project consists in building a website for offering to a person gifts from that person's wishlist. The website must provide the following use-cases and be composed of the following pages:

- Use-case 1: **Gift wishlist creation**
  - **A registration page** for registering as a new user, as well as for logging in.
    Functionalities covered: INSERT, READ data.
  - **A page listing your wishlists**, with buttons for:
    * creating a new wishlist (with a name and a deadline for receiving gifts),
    * accepting/refusing an invitation to a wishlist,
    * editing an existing wishlist,
    * deleting an existing wishlist, and
    * getting the URL for sharing a wishlist with another registered user (for joint creation of the wishlist),
    * getting the URL for displaying the wishlist to everyone (for allowing users to purchase you gifts from this wishlist).

    Functionalities covered: INSERT, READ, UPDATE, DELETE data.
  - **A page for adding/editing/deleting an item to your wishlist**, including:
    * item title,
    * textual description of the purpose of this item,
    * URL to a webpage where this item can be bought.

    Functionalities covered: INSERT, READ, UPDATE, DELETE data.
- Use-case 2: **Purchasing a gift for someone from that person's wishlist**
  - **A page for viewing a person's wishlist** using its sharing URL, with the following sorting buttons:
    * sort items by price in ascending order;
    * sort items by price in descending order.

    Each item should have a purchase button, which leads to the webpage where this item can be bought. Upon clicking this button, two things happen: (1) a webpage is opened where that item can be bought, and (2) a webpage is opened requesting you to upload a purchase proof (see below). When pointing the cursor on an item already purchased by someone, the name of the person who purchased it will appear, together with the accompanying congratulatory message.
    Functionalities covered: READ data.
  - **A webpage for proving the purchase of an item** On this webpage you are requested to upload a purchase proof printscreen for a given item, accompanied by some user-input congratulatory text. Once this purchase proof is uploaded, the item gets grayed out in the wishlist, indicating that it was already bought by someone. The congratulatory text for this item can be later edited by the user who purchased the item.
    Functionalities covered: INSERT, READ, UPDATE data.

- Use-case 3: **Administration**
  - A dashboard, containing:
    (a) the sorted list of the top-3 most expensive items bought for a wishlist.
    (b) the sorted list of the top-3 wishlists by total value of purchased gifts.

    Functionalities covered: READ data
  - A page allowing to view the list of users, as well as lock/unlock/remove their accounts.
    Functionalities covered: READ, UPDATE, DELETE data

Stylistically, the website must respect the IMT graphical charter (style guide). This includes the use of (1) allowed colors, (2) text fonts, and (3) text hierarchy, and margins. Although you are not allowed to use the IMT Atlantique logo, you can edit it to show that it is an IMT Atlantique student project.

References:

1. IMT graphical charter
   `https://intranet.imt-atlantique.fr/assistance-support/communication/charte-graphique/`
2. Text hierarchy: IMT graphical charter, page 10
   `https://intranet.imt-atlantique.fr/wp-content/uploads/2023/11/imt_atlantique_chartegraphique-4.pdf`

3 Evaluation grid

- Conception (30%):
  - Website wireframe(15%)
  - Tree-structure linking the web pages (visual sitemap) (5%)
  - UML Class Diagram for the project (10%)
- Basic functionality (50%):
  - Required functionalities work without error in the nominal case (40%)
  - All pages and functionalities are correctly interlinked (via GET/POST) (5%)
  - Input sanitizing (to avoid errors in the non-nominal case) (5%)
- Security (20%):
  - Only registered users can access/call pages that require authentication. (10%)
  - Protection from SQL injection (5%)
  - Protection from XSS attack (5%)
- Bonus points (20%) for:
  - Appropriate presentation of information in terms of user experience (5%)
  - Appropriate user interface for user input (e.g., forms with highlighted fields to pinpoint missing information, error messages) (5%)
  - Responsiveness: website usable both on wide and narrow screens (5%)
  - Style: respect of a coherent common style sheet and web-page template (5%)

4 Submission

On the evaluation day:

- The project must be accessible online to colleague students and teaching staff via a URL.
- The project code must be uploaded to the Moodle before the specified deadline.
- The project code must be uploaded to the IMT gitlab for students (`https://gitlab-df.imt-atlantique.fr/`), sharing access to the project with Issam Rebai and Mihai Andries.

For any questions, please refer to the author of this document at `firstname.lastname@imt-atlantique.fr`.