Product and Presentation (PA Component)

Databases and Web Applications Laboratory (LBAW)
Bachelor in Informatics Engineering and Computation (L.EIC)

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Product and Presentation (PA) Component

PA: Product and Presentation

- This component includes the artifacts related to the delivery of the final product.

- **Deadline is the same for all groups**, last week of classes — 20th Dec (Friday).

- **In-class presentation**, last week of classes / lab class.

  - Present the product to your teacher.

  - All students are expected to participate.

  - We are aware the product will evolve until the deadline.

- **Final presentations** (A10), 13th and 14th of January.

  - Presentations made to "clients" (other teachers).

A9: Product

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- This artifact includes:

  - implemented features;

  - updated openAPI for the product;

  - instructions for installation and use;

  - access credentials.

- The product version considered for evaluation is the one available on the group's GitLab Container Registry by the delivery deadline.

- The container should be used for the demonstration (A10).

A9: Product

- In detail, the product should:

  - identify the development status (in %) of each of the requirements (user stories) initially set in A2 — all high and medium priority user stories should be included;

  - describe the web architecture of the product with an updated OpenAPI specification;

  - describe the type of assistance supported by the web application (context-sensitive help, notifications, help pages, etc.);

  - describe and briefly justify the revisions introduced to the initially defined requirements and architecture.

A9: Product Evaluation

- The product is evaluated by observing the operation of the developed web application and the delivered code.

- The following items will be assessed:

  - Product usability — accessibility, usability of interfaces and online assistance (e.g. help online).

  - The features implemented — minimum set of features considered essential.

  - The architecture and the use of technology — modularity of the solution, the quality of the source code, proper use of languages and technologies.

  - The robustness of the product — absence of failures during operation, error handling (the access to the database and business logic in PHP), form validation in HTML and JS.

A9: Checklist (1/4) - Product Information

A9. Product			
Artefact	**1.1**	The artefact reference and name are clear	
	1.2	The goal of the artefact is briefly presented (1, 2 sentences)	
Product information	**2.1**	List of ALL user stories is included (implemented or not)	
	2.2	All user stories have team members associated	
	2.3	All user stories have completion state information (as a percentage)	
	2.4	Revision history section with changes to A2 and A7 is included	
	2.5	Link to the final release source code is included	
	2.6	Docker command to start the image from GitLab Container Registry is included	
	2.7	Credentials for different roles are included	
	2.8	"README.md" is updated with the Docker command and access credentials	

A9: Checklist (2/4) - Features

Features	3.1	Contextual help is supported
	3.2	About page is implemented
	3.3	Input validation on the client (frontend) is implemented
	3.4	Input validation on the server (backend) is implemented
	3.5	All high and medium priority user stories are implemented
	3.6	User authentication is implemented
	3.7	User registration is implemented
	3.8	User account deletion is implemented
	3.9	Password recovery is implemented
	3.10	User access control is implemented
	3.11	Administration features are implemented
	3.12	Full-text search is implemented
	3.13	Full-text search with multiple weighted fields is implemented
	3.14	Advanced search using filters is implemented
	3.15	AJAX interactions are implemented
	3.16	Feedback messages (e.g., errors, notifications) are implemented

A9: Checklist (3/4) - Architecture and Technologies

Architecture and technologies	4.1	All non-essential LBAW template code was removed
	4.2	List of additional libraries or packages used is included
	4.3	No non-authorized libraries or packages are used
	4.4	Complex code blocks are explained with comments
	4.5	Feedback messages (e.g., errors, notifications) are implemented
	4.6	No temporary files are left on the final product
	4.7	No resource hotlinking from other servers (e.g., images, PDFs)
	4.8	Laravel routes are correctly used
	4.9	Laravel controllers are correctly used
	4.10	Laravel templates are correctly used
	4.11	Laravel data access is correctly used
	4.12	Laravel policies are correctly used
	4.13	HTML validation report is included
	4.14	CSS validation report is included
	4.15	HTML semantic elements are used
	4.16	Minimal redundancy in CSS used (i.e. use cascading features)
	4.17	Product not vulnerable to URL manipulation
	4.18	Product not vulnerable to user input manipulation
	4.19	Internal errors are handled
	4.20	Laravel APP_DEBUG variable is set to TRUE in .env

A9: Checklist (4/4) - Product Usability and Accessibility

Product usability and accessibility	5.1	Usability checklist report is included
	5.2	Accessibility checklist report is included
	5.3	Responsive design is implemented

A10: Presentation and Discussion

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- This artifact includes the promotion, a presentation, the demonstration 0f the product, and a discussion of the developed features.

- The promotion should **include a 2-minutes video**, showcasing the main features of the product.

- For the presentation, the group **must use** the product available in their GitLab's Container Registry.

- Each group has a **20 minutes slot**: 15 min for demonstration + 5 min for questions.

A10: Checklist (1/2)

A10. Presentation		
Artefact	**1.1**	The artefact reference and name are clear
	1.2	The goal of the artefact is briefly presented (1, 2 sentences)
Materials	**2.1**	Brief product presentation is included
	2.2	Instructions to run the product are included
	2.3	URL to the video is included
	2.4	Video includes textual or audio descriptions
	2.5	Product data is realistic (e.g., no 'lorem ipsum' records)

A10: Checklist (2/2)

Presentation	3.1	Application is published in group's GitLab Container Registry
	3.2	The presentation is well structured
	3.3	Communication is clear
	3.4	The time limit is not exceeded
	3.5	Main features are shown
	3.6	No bugs nor unexpected fails happen
	3.7	Answers during the discussion are clear
Features Presented	4.1	Authentication & Authorisation
	4.2	CRUD operations
	4.3	User input validation on client (HTML, JS)
	4.4	User input validation on server
	4.5	User account creation
	4.6	User account deletion
	4.7	Password recovery
	4.8	Help features (contextual and others)
	4.9	AJAX calls
	4.10	Full-text search
	4.11	User administration