

# Product and Presentation (PA Component)

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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

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- This component includes the artefacts related to the delivery of the final product.
- Deadline is the same for all groups, end of the last week of classes — 21st January.
- *Presentation dates to be published — week of 24th January.*

A9: Product

## A9: Product

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- This artefact includes instructions for installation and use, and access credentials.
- The product version considered for evaluation is the one available on the group's GitLab Container Registry by the component's delivery deadline.
- That container will be made available at <http://lbaw21gg.lbaw.fe.up.pt> and will be used, from that URL, for the demonstration (A10). No update to the image at the production machine will be done after the submission deadline.

## A9: Product

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- The product should also
  - 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, and
  - identify the development status (in %) of each of the requirements (user stories) initially set in A2.

## A9: Product Evaluation

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- 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)

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<b>A9. Product</b>		
<b>Artefact</b>	<b>1.1</b>	The artefact reference and name are clear
	<b>1.2</b>	The goal of the artefact is briefly presented (1, 2 sentences)
<b>Product information</b>	<b>2.1</b>	Product main features are described
	<b>2.2</b>	Link to the final release source code is included
	<b>2.3</b>	Docker command to start the image from GitLab Container Registry is included
	<b>2.4</b>	URL to the product at the production machine is included
	<b>2.5</b>	Credentials for different roles are included
	<b>2.6</b>	"README.md" is updated with the Docker command, URL and credentials



## A9: Checklist (2/4) - Code Quality

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<b>Code quality</b>	<b>3.1</b>	List of implemented user stories are included
	<b>3.2</b>	All user stories have team members associated
	<b>3.3</b>	All user stories have completion state information (as a percentage)
	<b>3.4</b>	Revision history section with changes to A2 and A7 is included
	<b>3.5</b>	Contextual help is supported
	<b>3.6</b>	About page is implemented
	<b>3.7</b>	Input validation on the client (frontend) is implemented
	<b>3.8</b>	Input validation on the server (backend) is implemented
	<b>3.9</b>	All mandatory (high priority) user stories are implemented
	<b>3.10</b>	User authentication is implemented
	<b>3.11</b>	User registration is implemented
	<b>3.12</b>	User account deletion is implemented
	<b>3.13</b>	Password recovery is implemented
	<b>3.14</b>	User access control is implemented
	<b>3.15</b>	Administration features are implemented
	<b>3.16</b>	Full-text search is implemented
	<b>3.17</b>	Full-text search with multiple weighted fields is implemented
	<b>3.18</b>	Advanced search using filters is implemented
	<b>3.19</b>	AJAX interactions are implemented
	<b>3.20</b>	Feedback messages (e.g. errors, notifications) are implemented

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

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

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

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

# A10: Presentation and Discussion

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- This artefact includes the promotion, a presentation, the demonstration of the product, and a discussion of the developed features.
- The promotion should include a short video of 2 minutes, showcasing the main features of the product.
- For the presentation, the group must follow a presentation script (not to be delivered), and demonstrate the product accessing the official URL at the production machine: <https://lbaw21gg.lbaw.fe.up.pt>. The web application will be available until the grades are published.
- Each group has a 20 minutes slot: 15 min for demonstration + 5 min for questions.

## A10: Checklist (1/2)

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



## A10: Checklist (2/2)

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<b>Presentation</b>	3.1	Application is readily available in production
	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
<b>Features Presented</b>	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