

# IO6 - PRIMAE: Platform Framework

## Platform Specifications Document

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Participation and Recreation  
through Inclusive Martial Arts  
Education and E-Learning



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## **Executive- Summary:**

The purpose of this document is to provide a clear understanding of the PRIMAE Platform specification. Feedback on this document by the partners or potential stakeholders will be used to revise and finalise it.

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## 1. Candidate Base Technologies/Platforms

1.1 **Moodle LMS:** The Moodle LMS will be utilised in order to host the qualification courses. Accessibility functionality as well as any other additional needed functionality will be a custom build and integrated on top of it, as a plugin, using web technologies (JavaScript, PHP, CSS, HTML, and MySQL).

1.2 **WordPress CMS:** A WordPress CMS instance will be set-up, to be used as the basis of the PRIMAE web platform on which several custom-made plugins will be added to accommodate possible needed functionality, developed using web technologies (JavaScript, PHP, CSS, HTML, and MySQL). Existing plugins might be used as well if judged as needed and suitable.

## 2. User Requirements and System Specification

#	Feature Title	Feature Description	Selected Technology
1	Host Learning Material - Material from the Blended/Full E-learning courses and Transferability ( <i>Pre-Learning</i> )	Resource materials on inclusive education, coaching, and more will make up a central part of the PRIMAE platform. The material will be offered for free and open access to everyone (without registration). The material should be available for access and reading online or downloading to read them locally on a device, for any visitor of the platform. The material will remain permanently accessible to all, even after the project ends.	1.2 WordPress CMS

		<p>This material can be text files, media files (voice, films, etc), instructions for tasks to be completed, etc.</p> <p>Part of this material will be used in the courses for the qualifications.</p>	
2	Accepting new Material / Editing or Deleting Existing Material	<p>Platform's admins (members of the consortium organisations), will be able to at any time upload new material, edit existing material, or delete existing material.</p> <ul style="list-style-type: none"> <li>- User registration/login with an admin account will be mandatory.</li> <li>- No other users will be able to upload/edit material: uploaded material should be suitable, appropriate, privacy-preserving, and trusted.</li> <li>- Material from external users can be uploaded via communication with the admin team only.</li> </ul>	1.2 WordPress CMS
3	Self-Assessment tasks	<p>Assignments, short multiple choice or true/false quizzes.</p> <p>Offered for free and open access to everyone (without registration).</p> <p>The assignment instructions should be available for accessing and reading them online or downloading to read them locally, for any visitor of the platform. The quizzes will be available for using them online, and results (scores) will be given without</p>	1.2 WordPress CMS

		<p>any storing of data (answers, or scores).</p> <p>The assessment material will remain permanently accessible to all.</p>	
4	Host Blended/Full E-learning courses (for <i>Qualifications</i> )	<p>The e-learning courses will be designed and structured in such a way as to accommodate the selected pedagogical methodology (e.g., spiral, flipped, etc). The following functionality should be available:</p> <p>4.1 Creating New Courses</p> <p>4.2 Editing/Deleting Existing Courses</p> <p>4.3. Hosting/Uploading/Accessing Content and Material</p> <p>4.4 Creating/Submitting assessments within a course (of any type e.g., quizzes, assignments, etc)</p> <p>4.5 Course Forum: Students should be able to discuss with teachers and with each other, to communicate and create a community.</p> <p>4.6 New material: uploading of new versions or new material.</p> <p>4.7 Editing/Deleting Existing Material: the material will be able to be edited/upgraded/adapted or deleted from within the courses.</p> <p>4.8 Courses should be able to run more than once as needed.</p> <p>4.9 Control access to material based</p>	1.1 Moodle LMS

		<p>on conditions e.g., move to the next module if you have completed the previous one.</p> <p>4.10 Mark the course as completed based on a grading mark.</p> <p>4.11 Users have different roles and different permissions in the course</p> <p>4.12 User management</p> <ul style="list-style-type: none"> <li>● 4.12.1 User Registration</li> <li>● 4.12.2 User Login</li> <li>● 4.12.3 Reset Password/Username</li> <li>● 4.12.4 Edit Profile/Account</li> <li>● 4.12.5 Delete User account/profile</li> <li>● 4.12.6 Access personal data</li> <li>● 4.12.7 Restrict account</li> <li>● 4.12.8 Privacy policy about data processing. GDPR compliance.</li> </ul> <p>4.13 Displaying course catalogue.</p> <p>4.14 Sending notifications to users.</p> <p>The material of each course within the LMS will be accessible only to registered users of the course. Non-registered users will be able to access the material within the pre-learning platform.</p>	
5	Live online class	In the context of the e-learning courses, live online classes might be held. These classes will be held through external services such as	External

		Zoom, Skype, Google Meet, etc. The selection will be based on the tutor's and/or students' preferences. Within the course in the LMS, a link and instructions will be provided for the students to join the course. The tutor is then responsible to give the lecture in an inclusive way.	
6	Linking pre-learning and e-learning	<ul style="list-style-type: none"> <li>- Links will be given within the pre-learning platform (Technology 1.2 <b>WordPress CMS</b>) towards the e-learning platform LMS (Technology 1.1 <b>Moodle LMS</b>), for each course currently offered, or scheduled to be offered.</li> <li>- Links will be given for the general information of each e-learning course hosted within the LMS, towards the repository of the specific material in the pre-learning platform.</li> </ul>	1.1 Moodle LMS 1.2 WordPress CMS
7	Registration/Enrolment to the e-learning course	<p>Registration to the e-learning courses will be done as follows:</p> <ol style="list-style-type: none"> <li>1. Participants register at any time via the registration form available on the PRIMAE project platform or the leading organization's website.</li> <li>2. One tutor/coach is assigned to each participant manually, outside the system.</li> <li>3. The tutor registers the student to the e-learning course within the LMS, manually.</li> </ol>	1.1 Moodle LMS 1.2 WordPress CMS



8	Issuing Certification	After the successful completion of an e-learning course, the coaches should obtain the respective recognised and certified qualification (EU level). This will be produced and given outside the web platform's system. The successful completion of the course will be indicated by the system.	
9	Multilingualism	Some of the functionalities of the platform will become adapted to some of the partners' languages. Sections of the selected technologies that are to be translated will be defined from the onset before development commences.	
10	Payments	Payment should be done in order to enrol a student on a qualification course (i.e., Moodle LMS course). Payments will be done outside the scope of the platform e.g., via bank transfer. The receipt of such payments should be communicated with the instructor/person in charge in a respective communication, after sending the registration form, before the registration of the student to the course.	

## 2. Accessibility

The aim of integrating accessibility requirements is to give the ability to the platforms to offer accessible information for all, and to lift this task from the tutor's responsibilities, by allocating it to the supporting technology and tools. The target is to remove any possible barriers and overcome the disability by offering accessible e-learning environments to all (social model of disability).

Both the platforms and the material will be inclusive and accessible to the largest degree possible with regards to the WCAG 2.1 (AA). Some aspects of accessible design to be considered include:

- Providing good contrast between background and foreground.
- Be mindful of the experience on different devices.
- Considering font size and type.
- Offering accessible links (i.e. there is both a clickable link and a direct URL).
- Alternative text for images.
- Closed captions for videos/transcripts for videos.
- Avoiding embedding text in images.
- Correct use of HTML tags.
- Supporting navigating pages using only a keyboard.
- Using labels, perhaps even help descriptions where needed, with form inputs.
- Using appropriate page titles.
- Using ARIA attributes to support dynamic interaction.

## 3. Non-Functional Requirements

### *Usability Requirements*

A user-friendly and interactive interface must be offered in order to provide a better user experience to all users and to maximise the platform's usability. All the features provided should be easy to use, with to-the-point keywords and descriptive instructions. All menu links and buttons must be easy to find. The design should be simple, minimal and appropriate for the specific platform's purposes.

### *Performance Requirements*

All features should function properly without any user-perceived delays.

Platforms should be able to support more than 1000+ students.

### *Privacy and Security Requirements*

All data collected will be processed in a manner that ensures appropriate security, including protection against unauthorised or unlawful processing and accidental loss, using appropriate technical or organisational measures.

The platform should comply with the GDPR. All data shall be processed lawfully, fairly and in a transparent manner in relation to the data subject (the individual associated with them). The platform will ensure a level of security appropriate to the risk assessed as existing.

## **4. Complementary Documents**

- PRIMAE Online Learning v2.0.doc
- PRIMAE Platform Timeline and Methodology v2.0.doc

## **Legal Disclaimer**

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