**Guía2. Desarrollo Proyecto APT**

**Asignatura Capstone**

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| **1. Resumen avance Proyecto APT** |
| A continuación, encontrarás distintos campos que deberás completar con la información solicitada. |

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| Resumen de avance proyecto APT | *So far, we have made progress in implementing the main features of the LMS platform, including AI-powered lesson planning, attendance tracking, and grade management. We have achieved the specific objectives related to designing the AI functionality and setting up the PostgreSQL database. The SCRUM methodology has allowed us to keep the workflow organized and prioritize key tasks in each sprint. We adjusted the backlog to reflect requirement changes, particularly in optimizing AI integration, ensuring the final product meets the set objectives.* |
| Objetivos |  |
| Metodología |  |
| Evidencias de avance | *The evidence includes functional prototypes of the platform, unit tests for the developed modules, and technical documentation supporting the achievement of specific objectives. This evidence demonstrates progress in technical implementation and alignment with the initial requirements. Additionally, iterative testing was conducted to ensure project quality through the correct use of tools such as Django and PostgreSQL, and the rigorous application of the SCRUM methodology.* |

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| **2. Monitoreo del Plan de Trabajo** |
| Examina cuidadosamente tu plan de trabajo, enfocándote especialmente en la columna de estado de avance y ajustes. |

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| Plan de Trabajo | | | | | | | |
| Competencia o unidades de competencias | Actividades | Recursos | Duración de la actividad | Responsable[[1]](#footnote-1) | Observaciones | Estado de avance | Ajustes |
| *Backend development.*  *Database creation and management.*  *Artificial intelligence implementation.* | *Designing the AI-powered lesson planning functionality.*  *Developing modules for attendance tracking and grade management.*  *Setting up the PostgreSQL database..* | *Django, PostgreSQL, AI APIs.*  *Development tools, technical documentation, and SCRUM support.* | *Each activity was planned to be completed in two-week sprints.* | *Javier Godoy Desarrollador Backend*  *Niclás Mallea*  *Desarrollador fullstack, especialista en IA*  *Francisco Vega Desarrolador Frontend* | *No difficulties observed so far.* | *Lesson planning generation: Completed.*  *Attendance tracking: In progress.*  *Grade management: In progress.* | *Reprioritization of the backlog due to changes in AI optimization requirements.* |

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| **3. Ajustes a partir del monitoreo** |
| Profundiza en las observaciones de tu plan de trabajo. Analiza las actividades planificadas y señala qué aspectos facilitaron u obstaculizaron la ejecución del plan. Plantea cómo abordaste y/o abordarás los obstáculos. Por último, señala los ajustes que realizaste al plan de trabajo a partir de este análisis. |

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| **Factores que han Facilitado o Dificultado el Desarrollo:**  Factores facilitadores: Uso de SCRUM para organizar tareas, herramientas robustas como Django y PostgreSQL.  Factores que dificultaron: Cambios en los requisitos de IA y problemas en la integración inicial de las funcionalidades.  **Acciones para Solucionar Dificultades:**  Factors Facilitating or Hindering Development:  Facilitating factors: Use of SCRUM for task organization, robust tools like Django and PostgreSQL.  Hindering factors: Changes in AI requirements and initial integration issues.  Actions to Overcome Challenges:  We adjusted the backlog to prioritize critical tasks.  We increased the number of iterative tests to improve integration. |

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| **Adjusted or Removed Activities:**  **The initial user interface design was adjusted to prioritize core functionality, delaying secondary elements such as detailed graphic design.** |

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| **Delayed or Unstarted Activities:**  **Some user testing is delayed due to changes in the modules. We are adjusting the schedule to carry them out without affecting the final deadline.** |

1. En caso de que el Proyecto APT sea grupal, en esta columna deben indicar el nombre de los responsables de cada tarea o actividad. Esto posteriormente permitirá diferenciar la evaluación por cada integrante. [↑](#footnote-ref-1)