**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 completed all the necessary documentation and have started to develop the solution, which includes both the website and the mobile application. In terms of development, progress has been made on the following key functionalities:*   * *Supplier registration.* * *Implementation of the administration panel, which allows to add suppliers and perform the corresponding validations.* * *Development of the shopping cart, which includes the functions of adding products, increasing and decreasing quantities, and automatically generating the purchase order at checkout.* * *Automatic customer registration at checkout.* * *Integration of the payment system with Transbank.* * *Implementation of the first version of the help chatbot.*   *These advances have been possible thanks to a detailed focus on validations and automations to optimize the user experience.*  *We have made an adjustment in the methodology used. Initially we were working with an agile methodology, specifically Scrum, which provided us with flexibility and iterative deliveries. However, we decided to switch to a traditional methodology, opting for the spiral methodology, which has allowed us a more controlled and sequential approach, with greater emphasis on continuous risk analysis and system evolution in each phase.* |
| Objetivos | *Opcional en caso de ajuste*  *No significant adjustments have been made to the objectives so far.* |
| Metodología | *Opcional en caso de ajuste*  *We made a change in the project methodology. Initially we worked with Scrum, an agile methodology that gives us flexibility to perform iterative deliveries of functionalities. However, we decided to switch to the spiral methodology, a traditional methodology that has allowed us to follow a more structured and controlled approach, with a continuous focus on risk assessment and system improvements in each phase.* |
| Evidencias de avance | ***In this case the way we have to safeguard the quality of the project, is constantly reviewing the documentation that we did previously to ensure that this is being respected and also to correct it, in case something has been changed, also meetings are held on Tuesdays at 17:******00, because that time the team is fully available, which helps us to see what we have, what is missing and what needs to be modified, with these actions we are reviewing the quality of the project, documents that are reviewed and has the basis on which we keep to go creating the project are in this folder:***  ***Things done - Google Drive (s. f.).***[***Things done***](https://drive.google.com/drive/u/1/folders/1L3O2o4izn1C7lGxiiXIoayzu6gXbueZV) |

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| **2. Monitoreo del Plan de Trabajo** |
| **Carefully examine your work plan, focusing especially on the progress and adjustments column.** |

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| **Plan de Trabajo** | | | | | | | |
| Competencia o unidades de competencias | Actividades | Recursos | Duración de la actividad | Responsable | Observaciones | Estado de avance | Ajustes |
| IT project management | Team organization | *Project Manager/Designer*  *Software Engineer*  *QA*  *Full Stack Developer* | 1 day | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* | *N/A* | Completed |  |
| IT Project Management | Establish the Team and Roles | *Project Manager/Designer*  *Software Engineer*  *QA*  *Full Stack Developer* | 1 day | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* | Possible dissatisfaction with role by some team member | Completed |  |
| IT Project Management | Kick Off | *Project Manager/Designer*  *Software Engineer*  *QA*  *Full Stack Developer* | 1 day | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* | Difficulties may arise if a team member is unavailable for the meeting | Completed |  |
| IT Project Management | Project Charter | *Project Manager/Designer*  *Software Engineer*  *QA*  *Full Stack Developer* | *2 days* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* | Lack of knowledge may hinder the task | Adjusted | Review documentation |
| IT Project Management | ERS report | *Project Manager/Designer*  *Software Engineer*  *QA*  *Full Stack Developer* | *4 days* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* | Class materials as support for creating this document | Adjusted | Review documentation |
| IT Project Management | Project Management | Project Manager/Designer, Software Engineer, QA, Full Stack Developer | *2 days* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | Adjusted | Review documentation |
| IT Project Management | Initial Risk Identification | Project Manager/Designer, Software Engineer, QA, Full Stack Developer | *2 days* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | Completed |  |
| IT Project Management | Initial Risk Analysis Document | Project Manager/Designer, Software Engineer, QA, Full Stack Developer | *1 day* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* | Class materials as support for creating this document | Completed |  |
| IT Project Management  Web and Mobile Software Development | Mockups | Project Manager/Designer | *2 days* | *Juan Herrera* |  | Completed |  |
| IT Project Management  Web and Mobile Software Development | Use Case Diagram | Project Manager/Designer, Software Engineer | *1 day* | *Juan Herrera*  *Matias Arteaga* | Support from previously created diagrams | Completed |  |
| IT Project Management  Web and Mobile Software Development | Use Case Specification | Project Manager/Designer, Software Engineer | *2 days* | *Juan Herrera*  *Matias Arteaga* | Support from previous project documents | Ongoing |  |
| IT Project Management  Web and Mobile Software Development | Activity Diagram | Project Manager/Designer, Software Engineer | 1 day | *Juan Herrera*  *Matias Arteaga* | Support from previously created diagrams | Adjusted | Review diagrams for possible adjustments |
| IT Project Management  Web and Mobile Software Development | Sequence Diagram | Project Manager/Designer, Software Engineer | 1 day | *Juan Herrera*  *Matias Arteaga* | Support from previously created diagrams | Adjusted | Review diagrams for possible adjustments |
| Web and Mobile Software Development  IT Project Management | Class Diagram | Project Manager/Designer, Software Engineer | 1 day | *Juan Herrera*  *Matias Arteaga* | Support from previously created diagrams | Completed |  |
| Web and Mobile Software Development  IT Project Management | Component Diagram | Project Manager/Designer, Software Engineer | *1 day* | *Juan Herrera*  *Matias Arteaga* | Support from previously created diagrams | Completed |  |
| Web and Mobile Software Development  IT Project Management | Package Diagram | Project Manager/Designer, Software Engineer | *1 day* | *Juan Herrera*  *Matias Arteaga* | Support from previously created diagrams | Completed |  |
| Web and Mobile Software Development  IT Project Management | Deployment Diagram | Project Manager/Designer, Software Engineer | *1 day* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* | Support from previously created diagrams | Completed |  |
| Database Administration  Web and Mobile Software Development | Database Diagram | Project Manager/Designer, Software Engineer | *1 day* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* | Support from previously created diagrams | Not Started |  |
| IT Project Management Business Intelligence | Process Diagram (BPM) | Project Manager/Designer, Software Engineer | *1 day* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* | Support from previously created diagrams | Ongoing |  |
| IT Project Management | Design Risk Review | Project Manager/Designer, Software Engineer | *2 days* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* | Potential errors when detecting risks due to conceptual issues | Ongoing |  |
| IT Project Management | Risk Document Update | Project Manager/Designer, Software Engineer, QA | *2 días* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | Completed |  |
| Web and Mobile Software  DevelopmentDatabase Administration | Development Environment Setup | Software Engineer, Full Stack Developer | *1 day* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* | Prior projects to recall code and reuse components/functions | Ongoing |  |
| Web and Mobile Software Development | Feature Development | Software Engineer, Full Stack Developer | *18 days* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* | Prior projects to recall code and reuse components/functions | Ongoing |  |
| Web and Mobile Software Development IT Project Management | Continuous Integration | Software Engineer, Full Stack Developer | *4 days* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* | Prior projects to recall code and reuse components/functions | Not started |  |
| Web and Mobile Software Development IT Project Management | System Integration | Software Engineer, Full Stack Developer | *2 days* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* | Prior projects to recall code and reuse components/functions *componentes/funciones.* | Not started |  |
| IT Project Management | Technical Risk Monitoring | Project Manager/Designer, Software Engineer, QA, Full Stack Developer | *2 days* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | Not started |  |
| Data Science *AI Implementation* | Data Science Integration | Software Engineer, Full Stack Developer | *2 days* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | Not started |  |
| Web and Mobile Software Development IT Project Management | Functional Testing | *QA* | *2 days* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | Not started |  |
| Web and Mobile Software Development IT Project Management | Integration Testing | *QA* | *2 days* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | Ongoing |  |
| Web and Mobile Software Development | Component Unit Testing | *QA* | *2 days* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | Not started |  |
| IT Project Management | User Testing | *QA* | *2 days* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | Not started |  |
| IT Project ManagementWeb and Mobile Software Development | Final Integration Testing | *QA* | *2 days* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | Not started |  |
| IT Project Management | Test Risk Assessment | *Jefe de Proyecto/Diseñador*  *Ingeniero de Software*  *QA*  *Desarrollador Full Stack* | *1 day* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | Not started |  |
| IT Project Management | Staff Training | Project Manager/Designer | *1 day* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | In progress |  |
| IT Project Management | Closing Report | Project Manager/Designer  Software Engineer  QA  Full Stack Developer | *1 day* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | Not Started |  |
| IT Project Management | Project Closure Report | Project Manager/Designer, Software Engineer, QA, Full Stack Developer | *1 day* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | Not Started |  |
| IT Project Management | Lessons Learned Documentation | Project Manager/Designer, Software Engineer, QA, Full Stack Developer | *1 day* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | Not Started |  |
| IT Project Management | Final Risk Review | Project Manager/Designer, Software Engineer, QA, Full Stack Developer | *1 day* | *Juan Herrera*  *Matias Arteaga*  *Franco Olave*  *Dante Ruiz* |  | Not Started |  |

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| **3. Ajustes a partir del monitoreo** |
| **Go deeper into the observations of your work plan.** **Analyze the planned activities and point out which aspects facilitated or hindered the implementation of the plan.** **Discuss how you addressed and/or will address the obstacles.** **Finally, note any adjustments you made to the work plan based on this analysis.** |

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| Factores que han facilitado y/o dificultado el desarrollo de mi plan de trabajo: *Describe los factores que han facilitado y/o dificultado el desarrollo de tu Proyecto APT hasta ahora. En el caso de las dificultades debes describir qué acciones tomaste y/o tomarás para solucionarlas.*  **Facilitating factors:**   * **Team collaboration**: Good organization and communication among team members has been key to efficiently advance planned activities. The use of project management tools has allowed adequate follow-up and clear assignment of tasks. * **Prior knowledge**: Previous experience in similar projects has facilitated the creation of diagrams and documentation, speeding up the delivery of activities related to design and planning.   **Difficulty factors:**   * **Team availability**: During the kick-off, some team members were unable to attend the initial meeting, which delayed the formal start of the project. To address this, additional meetings were set up to bring the absent members up to speed.   + Action taken:     - The lack of availability was resolved by setting up flexible meetings and reviewing minutes from previous meetings to ensure everyone was aligned. |

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| Actividades ajustadas o eliminadas: *Señalar los ajustes que realizaste a tu plan de trabajo o actividades que eliminaste y, justifica por qué lo hiciste.*  *En el caso de que tu plan de trabajo no haya requerido ni requiera ajustes, justifica esta decisión a partir de los facilitadores que te han permitido desarrollarlo como fue planeado.*  **Activities eliminated:**   * The *Risk Testing* and *Residual Risk Report* activities were eliminated . The decision was made because the team felt that, given the current approach and methodology employed, separate risk testing is not warranted at this stage of the project. Instead, these aspects will be integrated within the functional and integration testing process, ensuring that risks are addressed on an ongoing basis throughout development.   **Reason for elimination:**   * The elimination of risk testing activities and residual risk reporting seeks to optimize team time and resources, allowing for a more integrated and effective approach to risk management within the overall project development. |

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| Actividades que no has iniciado o están retrasadas: *En caso de que* ***no hayas iniciado actividades o estén retrasadas*** *de acuerdo a tu planificación, señala los motivos por los que no has podido cumplir dichos plazos y qué estrategias utilizarás para avanzar en dichas actividades y no afectar tu proyecto APT.*  **Process Diagram (BPM):**   * **Reason for delay: This activity has not been initiated due to prioritization of tasks related to initial software development, which have required more time and resources than anticipated.** * **Strategy for moving forward: Plan to schedule specific work sessions to create the diagram, involving the entire team to ensure that the process structure is captured correctly.** **This will be done once the most critical development activities are completed.**   **Functional Testing**:   * **Delay Reason:** This activity is scheduled to be performed after major functionality development is complete. Currently, development is ongoing and therefore testing has not been able to start.   **Strategy for moving forward: Once major functionality is completed, dedicated blocks of time will be set aside for testing.**   * **In addition, a list of tests will be generated that will allow a more organized and agile process.**   **Integration testing**:   * **Reason for delay:** Like functional testing, these are tied to development progress and have not yet reached this stage. * **Strategy for moving forward:** We will implement parallel scheduling between the development of new functionality and the preparation of integration testing so that there are no significant delays once development is complete.   **Staff training**:   * **Reason for delay:** This activity has not been initiated because software development and implementation has been prioritized, leaving training for a later phase. * **Strategy moving forward:** Intensive training will be scheduled for the team once the functionalities are complete, ensuring that all members are aligned with the project tools and processes.   **Closeout minutes and lessons learned documentation**:   * **Reason for delay:** These activities are scheduled for the end of the project, so they have not been initiated. * **Strategy for moving forward:** These activities are planned to be performed in a structured manner at the end of the project, ensuring that all lessons learned are captured and the team's experience is adequately documented.   **Final Risk Review**:   * **Reason for delay:** This activity is dependent on the completion of testing and analysis of risks identified during development.   **Strategy for moving forward: Regular reviews are scheduled to assess risks as each phase is completed, ensuring that these activities are performed in a timely manner.** |