**Guide 2. Project Development APT**

**Course: Capstone**

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| **1. Summary of APT Project Progress** |
| Below, you will find various fields that you must complete with the requested information. |

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| Summary of APT Project Progress | ***So far, the progress we have made on the APT project is as follows:***   * *Project Charter* * *Risk Management Plan* * *Software Architecture Document (SAD)* * *System Requirements Specification Report (SRS)* * *Project Scope Statement* * *Diagrams (Package, Class, Use Case, Deployment, Component, etc.)* * *Gantt Chart* * *Work Breakdown Structure (WBS) Diagram* * *System Requirements* * *Traceability Matrix* * *Development of some system functionalities*   *These are the activities we have carried out and completed so far. These activities were performed in collaboration with different team members. Meetings were held every three days, during which the project leader would assign tasks to each member. Afterward, the leader would check in with each member to ask how they were progressing on their task, what was missing, or if they had completed it. Depending on the status of the task, it was determined what needed to be done next. If the task was finished, it was marked as completed on a list.*  *The specific objectives we have completed are as follows:*   * *Develop a user and product management system.* * *Create a sales and purchase management system, including a shopping cart and payment gateway.* * *Implement a roles and permissions system.* * *Implement a product catalog with advanced search options.* |
| Objectives | * ***Develop a transaction model that serves the function of preventing bank fraud.*** * ***Create an intelligent dashboard*** *that supports analytical insights for the user, allowing them to generate graphs about their sales and create activities that promote the sale of their products.*   *.* ***Create a purchase and sales management system****, including a shopping cart and payment gateway.* |
| Methodology | ***Spiral Methodology****: A change was made to the itinerary as well as the schedule since the spiral methodology required new sections for its development, in addition to the time needed for adaptation. This methodology includes phases such as:*   * *Planning* * *Design and Management* * *Development* * *Testing* * *Deployment*   *Although the sections of the spiral methodology will be used, we aim to develop phases that work and further improve the project. All of this will be done with the goal of achieving the best possible product.* |
| Evidence of Progress | ***The evidence we will present in this report is as follows:***   * ***Project Charter: This document is one of the most important when developing and planning a project. It helps us determine the objectives, the problem, justification, risks, the solution, and the methodology that will be used for the project development.*** * ***Software Architecture Document: This is also one of the most important documents. It describes and explains the type of architecture and implementation that will be used for the project.*** * ***System Requirements Specification Report: This report is also critical. It describes in much more detail the various functionalities that the system will have, including the most important ones and those to be developed in the future.*** * ***Traceability Matrix: This document helps us track the progress of each of the system's functionalities.*** * ***Gantt Chart: This document helps define the activities and the schedule that will be used for project development, determining the resources needed for each activity.*** * ***Risk Management Plan: This document describes and specifies each of the project's risks and how we will manage them, including the budget allocated to each risk, the level of impact, and the mitigation and contingency plan.*** * ***GitHub: This tool helps us manage application version control and show evidence of the changes made over time.*** * ***Demonstration Video: This video will showcase the completed application, demonstrating each of the functionalities outlined in the system requirements report.*** |

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| **2. Work Plan Monitoring** |
| Carefully Review Your Work Plan, Focusing Specifically on the Progress Status and Adjustments Columns. |

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| Work Plan | | | | | | | |
| Competence or units of competence | Activities | Resources | Duration of the activity | Responsible [[1]](#footnote-1) | Remarks | Progress status | Settings |
| **-Programming language development**  **-Project management**  **-Project functional testing execution**  **-Data mining**  **-Database deepening** | *-Communication plan*  *-Outreach management plan*  *-Stakeholder management plan*  *-Transactional model development*  *-Test plan report*  *- Application development*  *-Baseline developed* | *-Internet connection*  *-Computer or device to make the advances*  *-Office account for the use of the tools.*  *-Power supply in the equipment* | *1)Will last approximately 1 working day*  *2)Will last approximately 1 working day*  *3)It will last approximately 1 working day*  *4)It will depend on how much time you are investing, but so far it is not completely finished.*  *5) Will last approximately 1 working day*  *6) It will depend on how much time is being invested, but so far we have some sections already finished or processes that can be done, but it needs more time.*  *7) It will last approximately 1 working day* | *-Software architect and computer engineering*  *-Software architect and computer engineering*  *-Software architect and computer engineering*  *- Backend developer and frontend developer*  *-Software architect and computer engineering*  *-Software architect and computer engineering*  *- Backend developer, frontend developer and application developer.*  *-Software architect and QA* | *1) Several meetings were held to discuss the execution of the team plan.*  *2) Several meetings were held to focus on the execution of the team plan.*  *3) It will be carried out in accordance with conventional meetings within the team members.*  *4) Changes and development will be done in GitHub using this tool.*  *5) Team meetings will be held keeping the conversation going in all the sections.*  *6) Changes and development will be done in GitHub using this tool.*  *7) Meetings are held in the work team keeping the conversation going in all the sections.* | *1) Completed*  *2) Completed*  *3)Delayed*  *4)Delayed*  *5)Delayed*  *6)With delay*  *7)Completed* | *Development times have been prioritized as well as optimization of the team's important activities and the work methodology has been adjusted, which is now expected to help us improve quality.* |

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| **3. Adjustments from monitoring** |
| 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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| Factors that have facilitated and/or hindered the development of my work plan:  Well during the development of the work plan, we have had some problems that have made it difficult for us to develop the plan, for example:  - During the development of the stakeholder management plan, we had organizational problems so we ended up with a not significant delay, but we did have to reorganize and optimize the development of some of the activities that came later.  - On the other hand, we were able to facilitate the development of the communication plan and the outreach management plan, because in the previous activities we were able to optimize the development of these activities and thus have more time to be able to make the communication and outreach management plans. |

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| Activities adjusted or eliminated:  So far we have not needed to adjust or eliminate any activities due to the fact that we have prioritized the times of each of the activities and of each participant who must develop them, for these reasons we have been able to develop the work plan in the way in which it was planned.  Why we did not decide to adjust or eliminate some activities, mainly because everything is already much clearer and in order not to divert or delay more activities. |

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| Activities that you have not started or are delayed:  At this time as scheduled, we have 4 delayed activities which are as follows:  - Stakeholder management plan  - Transactional model development  - Test plan report  - Product and User Management functionality  - QR purchase validation functionality  - Administrator Panel or Dashboard  The reasons for the delays of these activities are that we had to give more time to the previous activities to be able to carry them out in the best way, so they ended up being delayed with not so high times.  The strategies that we were evaluating in order to develop these activities in an optimal time so that the following activities would not be affected are:  - Progress of the activities outside normal working hours.  - Daily meetings to know the progress and time required for the following activities.  - Develop a schedule where we can manage the subsequent activities without any delay, considering the possible risks or problems that we may have in the future. |

1. 1If the FFW Project is a group project, in this column you should indicate the name of the persons responsible for each task or activity. This will later allow differentiating the evaluation for each member. [↑](#footnote-ref-1)