**Guide2. APT Project Development**

**Capstone Subject**

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

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| APT Project Progress Summary | Advanced to this date, we are finalizing the development stage, in which the development of the Desktop APP is being completed and the APIs to be used are being integrated and developed. In addition, the required documentation is 75% advanced, subtracting only the documentation corresponding to the PDP.  The WEB system is 90% complete, with only the integration of the APIs remaining and in addition to some minor details.  The stages that we have already completed are those of Planning, Analysis and Design. |
| Objectives | The objectives of the project were not changed. |
| Methodology | The work methodology was not changed. |
| Evidence of progress | *Describe the evidence(s) that you will present in this progress report and justify how this evidence(s) allows you to account for the development of the project.*  *If relevant, explain how you safeguarded the quality of your APT Project based on aspects of your discipline (correct application of methodologies, activities, tools, own resources, etc.).*  *In this section, attach the evidence(s) selected to be evaluated by the teacher.* |
| **2. Monitoring of the Work Plan** |
| Carefully examine your work plan, focusing especially on the progress status and adjustments column. |

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| Work Plan | | | | | | | |
| Competence or units of competences | Activities | Resources | Duration of the activity | Responsible[[1]](#footnote-1) | Remarks | Progress status | Settings |
| Design and requirements management | Requirements Gathering | Computer, Trello | 12 | Karla Martinez | Verify that requirements are documented | Completed | No |
| Design and requirements management | Development Use Cases | Look | 12 | Karla Martinez | Use cases must follow pre-defined requirements | Completed | No |
| Software architecture and design | Flowchart Creation | Look | 16 | Cristian Ojeda | Flowcharts must follow previously defined requirements | Completed | No |
| Software architecture and design | Creating Sequence Diagram | Look | 12 | Michael Marin | Ensure that sequence diagrams can cover the interactions that the system has | Completed | No |
| Software architecture and design | Software architecture design | DrawIO | 20 | Vicente Laguna | The architecture must be easy to maintain and scalable | Completed | No |
| Software architecture and design | Creating a Database Diagram | Mysql | 20 | Karla Martinez | Database diagram must be validated to proceed with development | Completed | No |
| Project Management | Development of the articles of incorporation | Articles of incorporation template | 12 | Karla Martinez - Cristian Ojeda - Michael Marin - Vicente Laguna | Articles of incorporation must be approved by interested parties | Completed | No |
| Web application development | Web Environment Development | Visual Studio | 40 | Vicente laguna - Karla Martinez | 100% functional interface and database integration | Current | No |
| Desktop application development | Desktop Environment Development | Netbeans | 40 | Cristian Ojeda - Michael Marin | Integrate with data and ensure resource management | Current | No |
| Platform integration | Creating APIs | Fast Api | 28 | Michel Marin - Karla Martinez | The development of APIs must be reliable to carry out processes | Current | No |
| Platform integration | Payment API Integration | Fast Api | 16 | Cristian Ojeda | They must be tested to ensure information security for transactions | Current | No |
| Process Automation (RPA) | Bot integration for web scraping | Python, Mysql | 20 | Vicente Laguna | Verify that the bot extracts accurate and error-free information | Completed | No |
| Data analysis | Data analysis of the information extracted in web scraping | Power BI, python | 16 | Karla Martinez - Vicente Laguna | Confirm that the generated reports are useful, to provide insights from the analyzed data | Not started | No |
| Evaluate software quality | Testing and Fixes in the System | Selenium | 28 | Karla Martinez - Cristian Ojeda - Michael Marin - Vicente Laguna | Testing must ensure the proper functioning of the system and its processes | Not started | No |
| Evaluate software quality | White March | Monitoring Systems, Test Environment | 20 | Karla Martinez - Cristian Ojeda - Michael Marin - Vicente Laguna | Detect problems in the real environment before uploading it to a productive environment | Not started | No |

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| **3. Adjustments from monitoring** |
| Dig deeper into the observations in your work plan. It analyses the planned activities and points out which aspects facilitated or hindered the execution of the plan. Discuss how you addressed and/or will address the obstacles. Finally, point out the 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:  One of the aspects that has helped us is to be able to show progress with the respective teacher assigned, since with this, we review and obtain the corresponding feedback to guide us and know if we are on the right track within our project.  Perhaps, what makes it most difficult within the development of our project, is the time you have to finish and deliver the finished APT, without a doubt, in a race against time, since it is a lot of documentation to be done, in addition to the systems that must be developed and integrated. In this case, to address the problem of time, some activities have been carried out simultaneously. |

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| Adjusted or removed activities:  No activity has been deleted, but some have been modified in terms of the duration of the activity. |

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| Activities you haven't started or are delayed:  At the moment, no planned activity is delayed or has not been carried out according to plan. |

1. In the event that the APT Project is a group project, in this column they must indicate the name of those responsible for each task or activity. This will later allow differentiating the evaluation by each member. [↑](#footnote-ref-1)