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**Guide 3. APT Project Final Report**

**Capstone Subject**

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| **1. APT Project Final Report** |
| The objective of this report is for you to describe the most relevant aspects of your APT Project. It is important that you justify the decisions you had to make throughout the process.  Below you will find different fields that you must complete with the requested information, which will summarize your APT project and its main results. |

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| Project name | **MyASODI** |
| Area(s) of performance(s) | Agile Project Management - Web Application Development - Mobile Application Development |
| Competencies | * Build programs and routines of varying complexity to provide solutions to organizational requirements, in accordance with market technologies and using good coding practices. * Implement comprehensive systemic solutions to automate and optimize business processes according to the needs of the organization. * Build data models to support the organization's requirements according to a defined and scalable design over time. * Manage IT projects, offering alternatives for decision-making according to the organization's requirements. * Program queries or routines to manipulate information from a database according to the organization's requirements. |

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| **Contents of the final report** | |
| 1. Relevance of the APT project | The client ASODI, the Association of Dialysis Patients and Transplant Patients of Chile, located at Rancagua 0226, Providencia, Santiago, is an institution dedicated to providing comprehensive care to chronic kidney patients and providing support to transplant patients. They are a non-governmental, non-profit organization that has been contributing to improving the quality of life of our members and their families for over 40 years, supporting them in each of the stages of kidney disease.  ASODI as a company faces problems when it comes to meeting these deadlines established by health entities.  Among these problems, the quality of information that ASODI receives stands out. This is due to patients who do not keep a record of their medical operations, incorrect contact information, or even incorrect relevant personal information such as the RUN. This generates time losses when contacting the client and rectifying this information.  In addition to possible misinformation, there are problems when contacting clients to inform them of their appointment. Although the phone calls and emails that ASODI sends to its patients do not present problems as such, it is necessary to keep a record of these contact attempts in case of;   * The patient arrives for care outside the date and time established by ASODI * Serve as a response for hospitals that refer their patients through agreements, regarding ASODI's attempts to contact them, in the event that the patient reports that he or she will not attend, does not answer, or is informed that the patient has died.   Currently, the process is carried out manually and the patient data or records are in physical documents. This creates a problem when determining which patient is close to reaching the time limit for their treatment, not to mention the human errors that may occur during the process.  The value contribution that this project provides to ASODI would be the ability to efficiently manage its patients from agreements (which represent the vast majority) allowing ASODI to:   * Comply with the deadlines established in the contracts of the agreements and the GES law, avoiding penalties and fines by hospitals or Fonasa. * Streamline the time of all staff related to the patient intake process with agreements (secretaries and doctors). * Opt for new agreements without the risk of not being able to meet the deadlines of other agreements. |
| 2. Objectives | General objective  Optimize the process of admission and management of patients from agreements.  Specific objectives   * Digitize patient information entry with easy-to-use digital forms * Generate a record of the contact attempts that ASODI has with its patients. * Generate a system to monitor how long the patient has been admitted to the system, in order to meet the deadlines established in the agreements * Generate metadata about patients who are admitted and those who have already been treated at ASODI (rejected patients, accepted patients, etc.) * Generate a mobile platform where patients can easily enter and update their personal and contact information. |
| 3. Methodology | The methodology used to carry out this project is SCRUM  This project is divided into 3 phases, for the purposes of the methodology we seek to carry out the project in 3 Sprints of 3 weeks each.  The reasons for using this methodology come largely from factors external to the project:   * On the one hand, from the CITT (Innovation and Technology Transfer Center) and the Capstone Subject, we are asked to present versions of the project during its development, which generates the need to divide the workload into periods, as agile methodologies do. * On the other hand, it is necessary to generate feedback with respect to our client, because, if we seek to optimize a company process, it is necessary to verify that the solution we are delivering to ASODI is of quality. |
| 4. Development | The stages and activities carried out for the development of the project were:  First, version 1 of the MiASODI application is analyzed, after which a brainstorming session is held to implement improvements since this was also requested by the CITT. After this   * **Sprint 1**: * The first activity was to start building the MiASODI application from scratch, which was the priority at that time. * Once the sprint is finished, the first meeting is held with the client to introduce the work team and show the progress of the application. However, the client makes it known that although the mobile application can help them, what they need right now is a system that helps them manage the patients from the agreements. * After this meeting, the decision was made to redo the project planning due to the major change in priorities, determining that the following sprint 2 would serve as the MPV (minimum viable product) of the system requested by ASODI.   .   * **Sprint 2**: Some pending functions of the MIASODI APP are finalized and after this the web application begins to be developed, managing to finish several planned functionalities. * **Sprint 3**: A meeting is held with the client to learn about the process that the secretariats follow to process a patient from an agreement. After the meeting, the second stage of the sprint begins by implementing the remaining functionalities of the administrative profile.   It is worth noting that after Sprint 1, communication from our client has presented delays in its response times, which has generated problems for the generation of certain user stories, but above all, in the scheduling of meetings to show the progress of the work team in a possible Sprint review.  On the other hand, what facilitated the development of the project the most was the guidance of the teacher Arturo Vargas in providing us with solutions to the difficulties mentioned above and also in contacting the client. |
| 5. Evidence | As evidence that can allow others to visualize and understand the different stages of the project, two short videos were generated that present the MIASODI APP and the Web system.  On the other hand, there are diagrams belonging to the 4+1 architectural view model.  Regarding requirements documentation, it was decided to use the JIRA platform for sprint planning and the generation and prioritization of user stories.  Project link in Jira: https://ignacio-ralph-cabezas.atlassian.net/jira/software/projects/MA/boards/6/timeline?shared=&atlOrigin=eyJpIjoiZjNjODlhYTdiNzY2NGU4MmIyOTc1MDhlNzI3YTU2YTAiLCJwIjoiaiJ9  Documents and videos are uploaded to a repository on Github  Repository link: https://github.com/edu1694/MiAsodiProject.git |
| 6. Professional interests and projections | **Ignacio Ralph**  Professional interests:   * Big data * Data analysis * Project management   How did your APT project help you to gain a better understanding of your professional interests? Are your professional interests still the same as those you stated at the beginning of the course?  What professional interests would you like to explore or continue to deepen? How do you see yourself professionally after completing your APT project?   * Providing experience with the tools and documents that agile methodologies such as SCRUM use   **Eduardo Cardenas**  Professional interests:  How did your APT project help you to gain a better understanding of your professional interests? Are your professional interests still the same as those you stated at the beginning of the course?  What professional interests would you like to explore or continue to deepen? How do you see yourself professionally after completing your APT project?  **Jordan Piña**  Professional interests:  How did your APT project help you to gain a better understanding of your professional interests? Are your professional interests still the same as those you stated at the beginning of the course?  What professional interests would you like to explore or continue to deepen? How do you see yourself professionally after completing your APT project?    **Marcos Mayorga**  Professional interests:   * Web development, both frontend and backend * Cybersecurity * Database management   How did your APT project help you to gain a better understanding of your professional interests? Are your professional interests still the same as those you stated at the beginning of the course?   * Developing the project gave me a better understanding of my professional interests. My professional interests remain the same.   What professional interests would you like to explore or continue to deepen? How do you see yourself professionally after completing your APT project?   * I am interested in continuing to explore and delve deeper into web development. Professionally, I envision working in a company dedicated to web systems development where I can apply and acquire more knowledge. |