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**Guide 1.**

**APT Capstone Project Definition**

1. **PART I**

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| **1. Personal information** |
| The following table which must be completed with the required information. |

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| Student name | 1. **Pablo Gonzalez** 2. **Luis Velásquez** 3. **José Bautista** |
| Rut | 1. **15.643.231-8** 2. **19.587.658-4** 3. **17.094.005-9** |
| Degree | **Ingeniería en Informática** |
| Campus | **Antonio Varas** |

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| **2. APT Project Description** |
| In the description, you should briefly mention the name of your Capstone APT project and the competencies from the degree profile that you will put into practice. If your program defines specific performance areas, also mention which performance areas the project is related to. |

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| Project name | Proyecto Bels |
| Work area | Our work area will be on mental health services where we will work as full stack developers. |
| Competences | * Perform certification tests for both products and processes using industry-defined best practices. * Manage IT projects, offering decision-making alternatives according to the organization's requirements. * Build data models to support the organization's requirements based on a defined and scalable design over time. * Develop a software solution using techniques that allow for the systematization of the development and maintenance process, ensuring the achievement of objectives. |

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| **3. Justification of the APT Project** |
| The following are various fields that you need to complete with the requested information. This section aims for you to describe your project in detail and justify its relevance and pertinence. |

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| Relevance of the APT project | According to statistics, 23.6% of Chileans suspect they have some type of mental disorder. This includes disorders such as depression, anxiety, and other mental health issues. These disorders often make it difficult for people to manage daily tasks on their own, and to recover, they need psychological and psychiatric support. Additionally, establishing a well-designed work plan is crucial for their recovery. Currently, this work is performed by occupational therapists who, among other things, manually conduct a test called BELS, which measures a person's ability to be self-sufficient in performing basic daily living tasks. All of this requires time and effort, as well as the need for an appropriate professional to carry it out. |
| Description of APT project | We have decided to support the Renoval Rehabilitation Center and automate the BELS test through a mobile application that can not only conduct the test but also, through the use of artificial intelligence, create an appropriate work plan for each individual in order to help them regain their autonomy. The AI used in this project will be responsible for automatically developing this work plan, which will assist users in resuming their usual activities and improving their quality of life. |
| Relevance of the Project to the Graduation Profile | The project to be developed, hereafter referred to as the BELS Test, is entirely aligned with the graduation profile of the program, as it is an IT project that involves application programming, project management using Jira and GitHub, cloud-based databases, and innovation through the use and integration of AI for designing the work plan. It is important to mention that the development of the application will include the corresponding quality tests in each sprint, as we will be using agile methodology, specifically Scrum. |
| Relation with personal interests | Specifically, the professional interests of the team are directly related to data analysis, cybersecurity, and data engineering. In this sense, the APT project will be a unique opportunity to apply all these aspects in a real-world environment and address an existing societal issue. |
| Feasibility of Developing the APT Project | There are several key factors that justify the feasibility of developing the APT project:  Technology Availability: We have the Ionic framework, which is an open-source UI for developing web and mobile applications, and we already have experience using it for these types of developments.  Development Team Capacity: The team possesses the necessary knowledge and experience to carry out a project of this type.  Project Planning: The APT project, when planned in detail and well-structured, will enable its successful completion.  Market Demand: According to studies, 23.6% of Chileans suffer from some form of mental disorder. These disorders can make it difficult for individuals to take care of themselves. The app provides an alternative to regain self-sufficiency and assist with basic daily tasks. |

1. **PARTE II**

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| **4. Goals** |
| In this section, you should define the general and specific objectives of the APT Project. It is important to clarify that the objectives should be stated clearly, concisely, and without further explanations, meaning they should be self-explanatory. It is suggested to draft them using an infinitive verb, as this requires specifying concrete actions. |

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| General objective | Facilitate the process of taking the BELS test and the subsequent development of a personalized work plan through a mobile application that uses artificial intelligence, contributing to the recovery of people's autonomy and helping them save money. |
| Specific objectives | **1.Define the structure and content of the BELS test** Create a standard format of 26 questions that covers all key areas of basic daily living skills to be evaluated in the BELS test, developed within a timeframe of 2 weeks. This format will allow for a more structured and comprehensive assessment of users, which is essential for creating personalized work plans.  **2.Automate the BELS test-taking process through a mobile application** Develop a mobile application that automates the BELS test-taking process, optimizing the procedure and reducing waiting times. The application will decrease the time required for taking the test and creating the work plan by 50% compared to the manual process. Automating the test will enable faster evaluations with greater accuracy, enhancing the user experience.  **3.Automate the process of creating a work plan using AI** Implement artificial intelligence in the mobile app that automates the generation of personalized work plans based on the results of the BELS test. The project team will collaborate with a therapist to ensure that the automated work plan meets expectations. The AI will be implemented within a period of 4 months from the project’s initiation.  **4.Provide an intuitive and accessible user interface** Design a user interface that is intuitive, accessible, and easy to use, so that any user can navigate it without the need for additional training. This includes conducting usability tests to ensure that at least 75% of users can complete tasks without assistance. |

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| **5. Methodology** |
| In the following section, you should describe the methodology specific to your discipline that you will use to address the APT project described above, including the stages and methods of work. |

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| Methodology description |
| The work methodology Will be based on Agile Methodology. This will enable the delivery of small deliverables which are created at the ending of a sprint. The sum of all this deliverables will give as a final result the final product delivery.  This methodology was chosen because there was a need for adaptability in the face of unforeseen changes, and this methodology makes it possible.  Since this project is a group effort, it has been decided to incorporate the definition of the functions, tasks and responsibilities of the following members:   * Technical Leader: Pablo González * Fullstack developer 1: Luis Velásquez * Fullstack developer 2: Jose Bautista |

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| **6. Evidences** |
| Describe which evidences will be evaluated in the progress report and the final report of your APT project. This evidences must be agreed upon with your teacher. Evidence is understood as the products that are developed during the project and whose purpose is to visualize or document how the work has been implemented. |

**Interfaz de usuario gráfica

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| **7. Plan de Trabajo** |
| En la siguiente tabla define la planificación de tu Proyecto APT de acuerdo a lo requerido. |

**Tabla

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| **8. Gantt chart** |
| Find a Gantt Chart format that suits you and organize the activities planned in the previous point, considering the period assigned for the development of your APT Project. You must maintain the temporality of the academic period in the development of the three phases contemplated by the Degree Portfolio Subject. |

Escala de tiempo

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