**Guía2. Desarrollo Proyecto APT**

**Asignatura Capstone**

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# Abstract

College Choice Helper es un sitio web el cual, tomando en cuenta las preferencias del usuario, permite guiar jóvenes en el proceso de elegir una institución educativa, en este contexto el presente documento busca registrar el avance en cuanto a la fase 2 de desarrollo, poniendo en evidencia los ajustes realizados y el estado actual del sistema.

College Choice Helper is a website which, based on the user’s preferences, is able to guide high schoolers in the process of choosing an educational institution. In this context the document presented here aims to report on the progress made in the second phase of development, showing the changes made and the current state of the system.

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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 | During the second sprint of development a lot of activities were completed, in the topic of documentation several charts were made (like user stories, backlog, EDT, among others), and in the topic of system almost all the functions were coded, as well as the initial design of the project.  The defined objectives were kept as well as the methodology, although for practical reasons it has been decided to focus the third sprint for aesthetic improvement and UX, and thus leave the fourth sprint for quality testing. |
| Objetivos | There have been no changes regarding the objectives defined in the initial planning. |
| Metodología | There have been no changes regarding the defined methodology, however it was decided to change the plan between the third and fourth sprint to give value for the client in a faster way. |
| Evidencias de avance | For evidence there are many documents alongside the present one that probe the progress of the project, among them there is:  **User stories:** A chart that registers the user stories gathered, which probes that the user’s needs were considered to develop the system.  **Sprint Planning**: The initial planning for the active sprint, which shows the activities to be done for that delivery.  **Scrum Board:** The list of activities from the sprint divided into three states: to do, in process and done, this probes how the activities change their state as the team works.  **Burndown chart:** A graphic that compares the expected effort for the sprint’s tasks with the real effort said tasks took, to show how sometimes the plan doesn’t fit with reality.  **Impediment log:** Chart that reports the impediments or adjustments that had to be done to the original plan.  **Definition of done:** Document that defines the conditions to consider a user history to be done, designing a standard for this labor.  **Sprint review:** Report after the finalization of the sprint to review the work done, considering the completed user stories. Pending user stories and phase resume.  **Retrospective:** Document that reports discussed on the sprint retrospective meeting, where aspects regarding the way our team worked were reviewed and evaluated, considering what was done right, what was done wrong and what can be improved on the next sprint.  **Final report:** Formal detailed document that explains the project from an integral perspective, explaining the problem, why it is important for this project to be done, planning aspects, among many more. |
| 2. Monitoreo del Plan de Trabajo |
| Examina cuidadosamente tu plan de trabajo, enfocándote especialmente en la columna de estado de avance y ajustes. |

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| Plan de Trabajo | | | | | | | |
| Competencia o unidades de competencias | Actividades | Recursos | Duración de la actividad | Responsable[[1]](#footnote-1) | Observaciones | Estado de avance | Ajustes |
| *Nombra las competencias o unidades de competencias que se relacionan con las diferentes actividades requeridas para el desarrollo del proyecto APT.* | *Nombra las actividades que se necesitan para desarrollar el proyecto APT.* | *Nombra los recursos necesarios para llevar a cabo las actividades definidas.* | *Señala la duración de cada actividad.* | *Escribe el nombre del integrante del equipo responsable de cada actividad.* | *Señala las dificultades o facilitadores que se podrían presentar durante la ejecución de cada una de las actividades propuestas.* | *Describe el estado de avance de cada actividad.*  *Tipos de estado:*  *En curso/ Con retraso/ No iniciado/ Completado/ Ajustada* | *Señala los ajustes o reformulaciones que has realizado.* |
| IT Project Management. | Do the final report | Microsoft Word | 4 hours | Álvaro Muñoz |  | In progress |  |
| IT Project Management. | Do EDT | Microsoft Excel | 2 hours | Álvaro Muñoz |  | Completed |  |
| Database modeling | Do a model for the database | Lucid chart | 6 hours | Abel Sánchez |  | Completed |  |
| Software development | Do a model for the website | Canva | 12 hours | Álvaro Muñoz |  | Completed |  |
| Software architecture modeling | Do a model for the architecture | Lucid chart | 6 hours | Abel Sánchez |  | Completed |  |
| Software development | Create and configure the Django project | Python  Django | 2 hours | Alexander Hernández |  | Completed |  |
| Software development | Create the database | Python  Django | 4 hours | Abel Sánchez |  | Completed |  |
| Software development | Create templates and web pages. | Python  Django | 8 hours | Alexander Hernández |  | Completed |  |
| Software development | Code the functions | Python  Django | 16 hours | Abel Sánchez |  | Completed |  |
| Software development  Database queries | Connect to the database. | Python  Django  PostgresSQL | 6 hours | Abel Sánchez |  | Completed |  |
| Fix system vulnerabilities | Implement cybersecurity | Python  Django | 6 hours | Alexander Hernández |  | Not started |  |
| Software development | Aesthetic enhancement | Python  Django | 10 hours | Álvaro Muñoz |  | Not started |  |
| Software development | Hosting | Hosting tool still not defined. | 4 hours | Alexander Hernández |  | Not started |  |
| Fix system vulnerabilities  Quality testing | Quality assurance | Vulnerability mapping | OWASP Zap | 2 hours | Álvaro Muñoz |  | Not started |  |
| Fix system vulnerabilities  Quality testing | Quality assurance | Load and stress testing. | JMeter | 2 hours | Álvaro Muñoz |  | Not started |  |
| IT Project Management. | White march | Broadcast media | 6 hours | Alexander Hernández |  | Not started |  |
| IT Project Management. | Project closure | Microsoft Word | 4 hours | Álvaro Muñoz |  | Not started |  |

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| 3. Ajustes a partir del monitoreo |
| Profundiza en las observaciones de tu plan de trabajo. Analiza las actividades planificadas y señala qué aspectos facilitaron u obstaculizaron la ejecución del plan. Plantea cómo abordaste y/o abordarás los obstáculos. Por último, señala los ajustes que realizaste al plan de trabajo a partir de este análisis. |

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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.*  Entre los factores que, como equipo, encontramos nos han facilitado el desarrollo del plan de trabajo son:  Among the factors that as a team we found to make the development of the work plan easier are:  -Good disposition / readiness: The team was eager to work and is not shy to take responsibilities  -Collaborative work: The team can work on different fronts simultaneously, being able to complete various tasks in an efficient way.  -Good guidance: The teacher has solved all of the doubts of the work team, and her help has been really useful.  Going into the difficulties the team found and how they were dealt with, they are:  -Uncertainty about the deliverables: With the big number of documents to do, the team wasn’t sure how to get aboard many of them. To deal with this the team used a strategy consisting of completing, however we could do those documents and then fix the details while also applying formal formats with the help of the teacher.  -Tasks overlap: Some activities, most notably those related with the confection of User Stories, that needed a lot of work, more than the team initially thought, while also being key to even start other related documents, which created a bottleneck on the team’s workflow, in order to deal with this the team had to be flexible on their approach, not waiting for the entire document to be completed and instead implementing functions as fast as they were defined on the user stories chart, which while not ideal did allow the team to keep up. |

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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.*  No activity was deleted, but there was a decision made to change the approach of the third and fourth sprints, meaning the third sprint is to be used on aesthetic improvement and the fourth sprint will be focused on quality and security assurance, and also it was added final user’s training since it is a quite important aspect that the team undersaw initially.  This decision was taken because after analyzing the big picture this approach is more logical since the client can start using a version close to the end product earlier, meaning that the team who will eventually make use of the system can start trying it and find potential improvement while the development team works on quality control. |

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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.*  At the time being the team has not found any delayed activities from the initial planning, at least no “big activity” as such, there was the bottleneck mentioned before and how that was dealt with, using a more flexible approach to keep up the workflow.  There is two user stories that were planned to be done on this sprint (second) and that in the end weren’t completed, these being the inclusion of statistics for the administrator and alerts for the user of the outcome from the functions he had used, these were delayed and pushed to the next sprint, this was done due to other more important stories having a higher priority, so these two went to the backlog for the third sprint. |

# Conclusiones (in English)

Abel: On my behalf, I think the project so far has put the team to the test mainly on the time management aspect, I don’t think we have encountered something that, for technical reasons, couldn’t do but we have been stressing out a bit on fulfilling an schedule for some of the artifacts, still I would say the project is going well and I do believe it will end successfully.

Alexander: I believe in the realization of this project, aside from the difficulties found while doing mostly documentation, I can assure that it has been the toughest obstacle during this part of the project. If I talk about the development aspect, we haven’t had any major impediments whatsoever.

Alvaro: I think that the biggest part in this chapter of the project is the “application of schedule”. Since we are already running all aboard in the developing and documentation aspect of things, the major difficulty is getting used to it. I think that my team got the hang of it pretty quickly, giving a real impression of things working out. On my behalf I'm still struggling to find an actual footing, but I feel very confident in saying that things will work out well for us.

# Reflexión final (in English)

To summarize, the development of this project is going fine, not “perfect” if one would consider that to be totally accurate with the original plan, but still the team has managed to make the necessary tweaks in order to compensate for the inconveniences found.

1. En caso de que el Proyecto APT sea grupal, en esta columna deben indicar el nombre de los responsables de cada tarea o actividad. Esto posteriormente permitirá diferenciar la evaluación por cada integrante. [↑](#footnote-ref-1)