

¡Juntos por un mejor semestre!

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Justification

Abstract- This article presents certain points that will allow to know about the product "*Together for a better semester*", such as the explanation of the idea of the same, the objectives that are intended to be met, the justification of the importance of the product and in the same way the methodology, that is, each phase of development highlighting the most relevant elements as well as the process, monitoring and in the same way the individual contribution report, in addition to the lessons learned and evidence of acquisition of skills as well as fundamental parts such as the project plan and its requirements giving a clear definition of each one of them. All this in order to publicize the development of the entire project and in the same way that the purpose of the product is understood.

Keywords: Plan, user, product, functional, blog.

INTRODUCTION

Many times when entering the career, various issues arise that cannot easily be resolved and that causes a degree of insecurity and uncertainty due to not knowing what to expect during the course of the degree in Software Engineering.

The development of a blog that serves as support for the resolution of this problem that is based on making it understandable for all students. Besides being an easy and accessible tool to use for any student interested in said degree.

The blog "*Together for a better semester*" is a proposal to satisfy the requested needs according to the following:

Objective

The objective is to provide applicants and new students, of the degree in software engineering, both knowledge that they should know prior to the career as well as the experience acquired by students in advanced semesters.

There are a large number of support programs for new students (for example, the one-week induction workshop taught in the same faculty), however, in general, the new student does not know what it is. That exactly you must know prior to entering the bachelor's degree and these programs only focus on students already admitted, they do not take applicants into account.

This product aims to solve the problems already proposed, by providing the knowledge and tools that are considered relevant to applicants and students of the first semester of the software engineering degree.

PROYECT PLAN

The research plan will consist mainly of 2 phases:

Phase1- A short, simple and quick survey will be created, which will focus on collecting the most frequent questions that applicants and first-semester students of the software engineering degree can ask; These questions will address issues such as the services of the faculty where the degree is taught, enrollment in the faculty, the most effective learning methods based on experience, autonomous learning by the student, some questions related to the field labor.

Phase 2- Advanced semester students (seventh and eighth semester students) and people already working in the field of computing, specifically in software development, will be used to answer the questions that students have raised and have not yet received an answer.

REQUERIMENTS

Of user:

The product offered will provide first-semester students of the Bachelor of Software Engineering

with information focused on answering the questions asked by these characters (applicants and first-semester students). This information will be presented through a blog. In addition, it will have an "extra information" section which will have different sources of additional information (YouTube channels, study habits, etc.).

About product:

- Based on the responses collected after the application of the survey, it will be chosen to put together the questions that were repeated the most according to the statistical results, which are provided by google forms.
- The questions that were repeated the most will be referred to as "chosen questions", they will be stored in a document whose extension is .docx; this, in order to operate said questions later.
- In addition to the questions, links will be collected from YouTube channels that are focused on disseminating information related to the degree.
- The document in which the chosen questions are stored will be uploaded to the GitHub repository; so that all team members have access to the document.
- Once the above is done, the questions will be taken to a more formal document, in which the answers to questions will be reflected, these answers will be provided by people who consider themselves qualified as responders.
- Then, the answers will be refined, in terms of their writing and understanding, to later be published by the team responsible for the project.
- The information found in the published document is specifically for software engineering applicants and new students.

Functional

- All information on the system will be presented through a blog and will be available on platforms that have internet access.
- The blog will have a main section of "frequently asked questions", which shows a series of questions with answers that contain information related to the contents of the undergraduate subjects and about aspects of the mathematics faculty.

- The blog will have a section called "Study Habits" that provides a list of tips to keep those habits in mind.

- The blog will have an "Extra Information" section that will show links to YouTube channels that will be directly related to the software engineering degree.

Not functional

- As it is a blog, there will be no way to register for an account.
- The information presented will be updated every semester.
- All system information must respond to the user in less than 5 seconds.
- The process and the information collected will be prior to the preparation of the material.
- Preparation of different previous versions before establishing the final version of the document.
- A final polishing will be carried out on the document.

METHODOLOGY

The planning is based on the process called Waterfall Model

- Requirements specification: They will be specified in the requirements definition.
- Product design: It was specified in the structure design point.
- Construction or implementation of the product: Once the information from the research point plan has been compiled, it will be decided to divide the product into parts, so that each team member works with one part.
- Integration: The parts made by each member at the point of construction or implementation of the product will be joined.
- Testing or validation: Once the sketch is done, it will be previewed and released.
- Deployment or installation: The target market will be asked to provide their opinion, later based on the opinions of the end users the changes will be made and the final version will be published.

- Maintenance: Product modifications will be made every two months, so that a good number of suggestions from the target market are gathered, so that it is worth the maintenance.

PROJECT MONITORING

Defined work process:

Process called "Cascade Model"

Monitoring:

The planning will be monitored to corroborate constant progress in the project, this will be done through a calendar of activities; before reaching a date established in said calendar (approximately 3 to 4 days before), the progress you have will be reviewed to avoid delays in activities.

Individual contribution percentage objectively:

The roles and responsibilities of each team member will define the percentage of individual contribution. Each member has a specific and equally important role in the project.

Alejandro Aké Gamboa-100%

Andrés Kenneth Centro Metri-100%

Carlos Julián Chan Ek-100%

Heidi Sarai Chan Euan-100%

Angel Jaziel Dzib Noh-100%

LESSONS LEARNED AND EVIDENCE OF SKILL ACQUISITION:

The development of our project left us various lessons such as learning to work as a team, adapt to new changes, solve situations through our knowledge, resources, as well as through research and, above all, cooperation on the part of the team.

It is considered that it was a good group that knew how to carry out the project and obtain satisfactory results, we learned to organize since respect was always maintained by listening to everyone's opinions, the responsibility and commitment of everyone was kept in mind, considers that it was essential at the time of work.

Similarly, the development of this project allowed us to develop certain skills that perhaps were not known, such as collaboration, proposing alternatives, communication, decision-making as well as time management, it is worth mentioning that we are aware that the lessons learned will serve us throughout the career.

Another important aspect to mention are the small setbacks that the team faced such as despair, frustration, sometimes bad time management, as well as a factor that at certain times played us badly such as the internet, but the interesting thing about all this is that a way to get ahead was always sought and something that is satisfactory is that a united team was always kept together.

CONCLUSIONS

While the blog Together for a better semester! It is not something new but it is important for all those applicants and students in the Software Engineering degree since it is worth mentioning that it is a reality that there will always be questions that we cannot solve at first but with the help of an easy and accessible to use, students will be able to enter with prior knowledge as well as with greater certainty and security allowing them to be prepared at the time of starting their career.

THANKS

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REFERENCES

[1]<https://github.com/Andres-K-centeno/Juntos-por-un-mejor-primer-semester/tree/main>