PASS+: A NEW WAY OF SAVING LIVES

João Armandes Vieira
Costa[1] João Arthur Gonçalves
Rodrigues[2] Gustavo Henrique
Couto Antunes[3] Antônio Martins
Costa Filho[4] Arthur Augustinho
dos Anjos[5] Kevin Diogenes
Fonseca[6]
Guilherme Francisco Alves Ribeiro[7]

Resumen

One of the most unfortunate situations in Brazilian health is found in queues at health centres, where people often spend a considerable time of their days in queues waiting to be attended to. In order to soften this problem and guarantee more free time for people who expect to be seen at clinics and health posts, we started the production of the Pass+. In making the idea for this application, we used the best software engineering practices for project management and requirements creation, respectively supported by ScrumBan (a combination of the organizational frameworks "Scrum" and "Kanban") and Lean Inception, defining that the application will have support for IOS and Android, later having a web version. In addition to defining that the application will be a simple way of notifying the customer about an appointment and will facilitate the appointment scheduling process, Lean Inception also facilitated the process of definition of non-functional requirements, such as issues related to accessibility, which will be a key point in the creation of this project, as it is an application that will be available for all ages. In addition, we can also mention Figma, which is a great ally in the design and prototyping process, helping to validate what must be in the app and how it will be implemented. Finally, it can be said that in the current phase of the project, we are in the prototype validation period in Figma, which is already dynamic and usable, with the prospect that in the next Sprint (implementation cycle of one or more functionalities within the Scrum model) we will start coding the project. Keywords: queues, reduction, health, accessibility.

Keywords: queues, reduction, health, accessibility.

[1] Acadêmico em Engenharia de Software, Universidade Evangélica de Goiás - UniEVANGÉLICA, Brasil. kjoaoarmandes@gmail.com:

[2] Acadêmico em Engenharia de Software, Universidade Evangélica de Goiás - UniEVANGÉLICA, Brasil. joaoarthurr74@gmail.com:

[3] Acadêmico em Engenharia de Software, Universidade Evangélica de Goiás - UniEVANGÉLICA, Brasil. gustavocout3@gmail.com:

[4] Acadêmico em Engenharia de Software, Universidade Evangélica de Goiás – UniEVANGÉLICA, Brasil.

[5] Acadêmico em Engenharia de Software, Universidade Evangélica de Goiás - UniEVANGÉLICA, Brasil. arthuraugustinho35@gmail.com:

[6] Acadêmico em Engenharia de Software Universidade Evangélica de Goiás - UniEVANGÉLICA, Brasil. kevindff@hotmail.com:

[7] Acadêmico em Engenharia de Software, Universidade Evangélica de Goiás - UniEVANGÉLICA, Brasil. guilhermevs54@gmail.com:
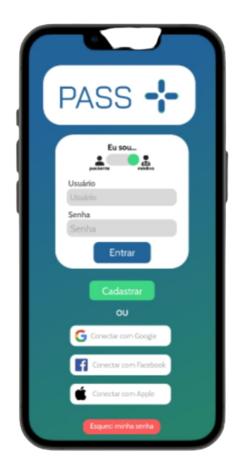
Introduction

Can you imagine making appointments through your cell phone, waiting your turn without queues and without delay? In order to facilitate your search for health care, PASS+ came to make life easier with health, promoting agility and quality in health service. This work aimed at optimizing care in clinics and hospitals within the objective of ending queues by building an app PASS+.

The results obtained by theoretical means, was the documentation of requirements planning and process of application development through the Scrum methodology with time management through the technique Ideal days and pomodoro.

With this we obtained an App, that contributes the reduction of queues, facilitating the lives of several people bringing comfort and practicality, reducing the waiting time for treatment health posts and clinics, without queues

Scientific method

In our initiative, we took advantage of several tools for the development of production, some tools were removed from the "Agile Manifest", in order to improve and speed up the application of the project. Scrum is an agile framework for project management with emphasis on the software process, making the projects simpler and clearer, as it keeps visible records of the progress of all steps. Kanban is also an Agile framework, it is a visual system to manage work, it moves through the process, our team is currently using Trello as a way to make every single person see the progress we make, and the steps we do individually, for an easy view of everyone on the team. These are the main frameworks used by the team, and we also use several other tools, such as Figma and Visual Studio Code.

Result /Discussions

The use of prototyping makes it possible to visualize the idea of creating the project in an interactive way based on the initial version of the system, considering possible evolutions and discards. In the initial design of the system in the midst of prototyping, start screens, scheduling, settings and history were then determined. It is expected that the user can interact in the best way through an accessible and facilitating interface, thus solving the problem of long waiting lines in health clinics. The prototyping can be seen below (image 1).

Conclusion

Pass+ consists of an application that will initially be available for Android and later on IOS, and will also have a website, which is intended to solve a current problem in clinics and health posts: managing passwords that cause waste of time for the customer in these locations. Soon, the application will allow appointment scheduling. In addition, Pass+ will schedule appointments and provide post-appointment information. So, it is evident a device that has a great capacity to improve the organization and agility in the health area.

References

In our initiative, we took advantage of several tools for the development of production, some tools were removed from the "Agile Manifest", in order to improve and speed up the application of the project. Scrum is an agile framework for project management with emphasis on the software process, making the projects simpler and clearer, as it keeps visible records of the progress of all steps. Kanban is also an Agile framework, it is a visual system to manage work, it moves through the process, our team is currently using Trello as a way to make every single person see the progress we make, and the steps we do individually, for an easy view of everyone on the team. These are the main frameworks used by the team, and we also use several other tools, such as Figma and Visual Studio Code.