Seneka App
Universidad de los Andes
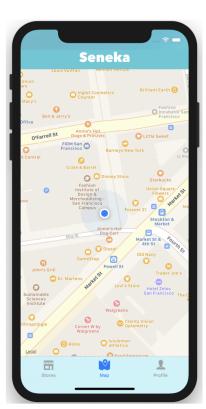## Airbus Fly Your Ideas

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1. Summary

Seneka is a platform with the ability of integrating the basic technology and engineering concepts in order to provide to the flight passengers the capacity of using their time in a pleasant way along the different airports that might be involved in their path during their business or leisure flights. Moreover, the platform brings support to the airport and airlines to allow them tracking, alerting and making contact with a passenger to notify about changes on their flight itinerary. Seneka also supports the interaction between passenger and the airport, a passenger can get notifications about the commercial offerings and the status of his order. Additionally, the passenger becomes an active member of the security team of the airport by informing to the local authorities about any emergency or misbehaviour from any other person using the app. The application has a sign-in interface for user that subsequently directs it to an airport selection interface where he or she will indicate where they want to be located and find optimal routes for their displacement. Likewise, the app has a search selection interface where the users can find stores, boarding gates and places of interest. Furthermore, an user profile interface can be found where it is possible to identify and modify their personal information and verify their flights.

2. Objetives

2.1 Main Objetive

Design a platform that can provide user support on his/her way through an airport by alerting, giving advice and a guidance through his/her corresponding routes within the airport, while giving secure communication channels between airports, airlines and passengers.

2.2 Round 2 Specific Objetives

- Design the business architecture which is consisted of the business canvas, the business ecosystem and the services brochure.

- Validate the acceptance of the idea throughout a market analysis based on surveys, existing companies and their success key factors.

- Create a functional sign-in interface based on the results of the design

analysis (Colors and requirements).

- Develop a broaden knowledge of the technical specifications for the mapping and location of the user.

- Develop a previous map interface to visualize the application on a phone.

2.3 Round 3 Specific Objetives

- Create a functional map interface to guide a passenger to a desired place and find commercial offers through a foreing airport.

- Implement a security bottom thar make the passenger connect inmediately with police or nearly security guard on the airport.

- Implement an "alert flight status" that gives a warning message to the passenger regarding flight status, delays and board gates updates.

- Based in service brochure, we will develope an app which could be used in a cell phone with iOS system.

2.4 Changes

Our idea has changed, from an app to a platform with the intention of provide better services to the different actors. Also, we expand our clientele, now we are creating a new form to improve the airpot traffic efficenty, making four distinct Apps for the passenger, the airport, the airlines and the shops.

3. Description

3.1 Development

En primera instancia planteamos el problema que consiste en la necesidad de los pasajeros de ubicarse y desarrollar diferentes actividades en un aeropuerto extranjero, así como la necesidad de las aerolíneas de que estos pasajeros lleguen a tiempo a sus puertas de abordaje y la necesidad de los aeropuertos de mejorar el tráfico de personas en el.

Seguidamente desarrollamos una arquitectura de referencia que nos permitió estructurar los productos y servicios de TI para formar la solución al problema planteado. Así mismo, definimos el ecosistema y el modelo Canvas de la Plataforma Seneka y basados en estos tres recursos planteados, desarrollamos un catálogo de servicios.

A partir del catálogo de servicios, planeamos un cronograma que especificaba cada uno de los pasos que debíamos seguir en el desarrollo de la aplicación de acuerdo también a los requerimientos que íbamos a tener en el vídeo.

3.2 Resources

Como primer recurso implementamos encuestas para poder definir la problemática mas importante para los usuarios en los aeropuertos. Seguidamente, nuestros recursos para el análisis de estos datos y la continuación del proceso mencionado anteriormente fueron computadores con programas respectivos como XCode, Jupiter, Atom, LaTeX y recursos de internet como Lucidchart, GitHub, Trello y Google Forms.

Para el desarrollo del vídeo de avances publicado en la página de Facebook, utilizamos cámaras de celular, iMovie e imágenes del desarrollo de la aplicación. Así mismo, para el video de esta entrega utilizamos imágenes de internet obtenidas de las páginas sugeridas en el Brief de la ronda 2 y la ayuda de personal y equipos de grabación de la universidad para realizar tomas y edición de este vídeo.

3.3 Results, their reliability and significance

3.4 Innovation

4. Prototype

4.1 Programming process

4.1 Testing process

5. Outcomes

5.1 Achievements

The aeroespace industry will get stronger as the number of passengers could feel confortable with the security and good service. But the aeroespacial industry also includes ground service and people working in it, that is one of the aspects that might have been forgotten or neglected. With Seneka platform and its service Seneka App, passengers, airports and airlines could be beneficiaries of the system of tracking paths within the airport, that's because people could be more in touch with all the services offered inside of it.

Likewise, sales will increase with the arrival of more and new travelers that are more likely to go through this airport with the revolutionary Seneka's way to buy at the airports around the world. The system is easy, the passenger select his/her products and pays in the platform. Then enters his route and the app locates the nearest cupboard in which she/he could get his purchase without going trough the airport. The cupboard are the new spaces that we identify as a pick up station, in which the seller leaves the purchase with a security code that buyer already has. Putting this code, the cupboard autmatically selects the order and deliver it to the buyer in a few seconds.

At the same time, the congestion on hours of simultaneous boarding flights will be better as the number of travelers using Seneka App increases, because they will get an efficiet path to get into the correct gate. The waiting rooms will get full only at the right times because passengers will spent their time in entertaimen places without fear of losing their fligths.

5.2 The new aerospace industry

Aquí explicamos como nuestra idea innovaría la industria y que es necesario para que sea adoptada.