

**Engineering Fundamentals**

**Edison Lascano PhD**

**NRC:7159**

**REQUIREMENTS**

**TEAM MEMBERS**

SANTORUM SANDOVAL THAIS YETSALEM

TITUAÑA MORENO DANIELA LISSETTE

QUIMBIULCO CARRION JUAN DIEGO

SILVA VELASQUEZ RAUL ANDRES

RAMOS VASCO DANIELA CAMILA

**TEAM 05 PARADIGM**

**TOPIC: SYSTEM REQUIREMENTS**

**LEADER: JUAN DIEGO QUIMBIULCO**

**ESPE mobile application prototype**

We propose to create a mobile application to help not only teachers but for students in general.

We consider the following key elements that our application should have:

* Updated information on administrative processes.
* A pleasant and intuitive interface for the user.
* Efficient customer service through bots.
* Frequently asked questions section.
* Interactive map of internal and external facilities.
* University announcements synchronized in real time with the official social networks.
* Cross-device integration.
* Quick access to relevant student information for useful insights.
* Easy to use teacher and student section.
* Homework, quizzes and activities section.
* Academic record tracking.
* Updated information of the institution.
* Synchronization with digital libraries and services provided by the institution.
* College payment tracking
* Emergency section for teachers and students.

We have decided to choose our teacher Jorge Edison Lascano, not only because he is our software engineering teacher, besides being a teacher himself who is knowledgeable in the area and knows what are the needs to be addressed in the institution, we believe he is the perfect person to support us with the requirements of our project. We have raised several questions that will serve as feedback for our project. We look forward to your collaboration.

* **How is information handled within the university, is it efficient?**

At the moment the most used source for data management is through e-mail, in which we are informed of the beginning of enrollment, loss of free admission, schedules, among others. The banner system used is not really useful.

* **What do you think is the fundamental thing that our application requires to be an effective tool for teachers?**

Information that primarily reaches teachers and it would be very useful to have the features to apply reminders.

* **Do you think the application will help users in a positive way, and why?**

Yes, of course, it will affect us in a positive way, since we will obtain more accurate information and eliminate any doubts or concerns that students may have.

* **Any recommendation or requirement that you consider fundamental for our application.**

One of the essential features your app must have is personalized communication.

* **How would you assess the situation of uninformed students about the university's events and facilities?**

The information currently available in the institution is very confusing, forcing teachers and students to resort to information from third parties or social networks. It would be essential that the information transmitted be personalized and contain individual announcements.

* **In your opinion, what would be the biggest problem that our application should solve?**

The biggest problem would be the communication system, to make the system effective between the institution and its users, in which the announcements, events, etc. are transmitted efficiently.

***USER HISTORY***

***What is the process to upload homework in the espe platform?***

***The process to upload the assignments is to enter the banner of espe and go to the upload assignments section and upload them, then the platform sends to all students who are in the virtual classroom and appears in the assignments section.***

***How is the community informed of an event?***

***If there is an event or an event is to be held, a request is made to the rector's office for permission, once approved, the university informs through the announcements section or informs by e-mail.***

***How are teachers informed if a student is a second tuition student?***

***To find out if a student is a first-time student, the institution first sends a list of which students are first and second-time students and then a list is designed according to the section they belong to, specifying whether they are first or second-time students, but it usually takes a while for the institution to send the list so it is easier to ask the students personally.***

***How to find a specific place in the institution?***

***Since there are no maps to help, the best thing to do is to ask the people at the institution or at the information desk.***

***Requirements***

* ***The system shall have an interactive map that uses services of Google maps.***
* ***The system shall have a filter for new students and students with loss of gratuity.***
* ***The system shall allow visualisation of upcoming events.***
* ***The system shall have a payment history or a payment tracking for students.***
* ***The system shall allow Cross-device integration.***
* ***The system will have a chat for interactions with teachers and students.***
* ***The system shall allow cloud storage for teachers and students.***
* ***The system shall have an academic record tracking***
* ***The system shall allow a connection with the Miespe banner.***
* ***The system will have a more direct handling of homeworks and grades.***
* ***The system shall have an attractive User interface (UI) design.***
* ***The system will have easy communication and updated information.***
* ***The system should be easy to use for everyone.***
* ***The system should have a good organisation of each section of the app.***

***Other Information***

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| ***Actores*** | *Team Paradigm* | |
| ***Descripción*** | *Esta nueva app fue diseñada para ayudar a nuevos estudiantes, mediante mejores categorías de búsqueda, mapas interactivos, foros para una unión mucho mas rapida y congenio entre alumnos, también ayuda exclusivamente a maestros e ingenieros que conforman la Universidad de las Fuerzas Armadas mediante una mejor sección de envíos de mensaje y revisión de notas.* | |
| ***Entradas*** | *Ingreso de datos,numero de identificacion,presupuesto si es segunda matrícula* | |
| ***Salidas*** | *verificación de datos,identificaciones,información de matrícula,entre otros* | |
| ***Proceso*** | ***Actor***  QUIMBIULCO CARRION JUAN DIEGO  RAMOS VASCO DANIELA CAMILA  RODRIGUEZ CEVALLOS MELANIE NICOLE  SANTORUM SANDOVAL THAIS YETSALEM  TITUAÑA MORENO DANIELA LISSETTE  SILVA VELASQUEZ RAUL ANDRES | ***Sistema***  ***Ingeniero***  ***Marketing***  ***Programador***  ***Desarrollador***  ***Diseñador***  ***Programador*** |
| ***Precondiciones*** | * *Información actualizada sobre los procesos administrativos.* * *Una interfaz agradable e intuitiva para el usuario.* * *Servicio de atención al cliente eficiente a través de bots.* * *Sección de preguntas frecuentes.* * *Mapa interactivo de las instalaciones internas y externas.* * *Anuncios de la universidad sincronizados en tiempo real con las redes sociales oficiales.* * *Integración entre dispositivos.* | |
| ***Post condiciones*** | * *Sección de deberes, pruebas y actividades.* * *Seguimiento del expediente académico.* * *Información actualizada de la institución.* * *Sincronización con bibliotecas digitales y servicios proporcionados por la institución.* * *Seguimiento del pago de la universidad.* * *Sección de emergencias para profesores y alumnos.* | |
| ***Flujo alterno*** | *1.Al abrir la app solicitara los permisos necesarios para que pueda funcionar la aplicación sin ningún problema.*  *2.Tendrá un cuadro de inicio de sesión el cual será muy intuitivo en el cual se registraron los datos del usuario.*  *3.Se enlazaran los datos almacenados en los servidores con la plataforma que se esté usando y solicitando.* | |
| ***Prioridad*** | *Esta aplicación tiene como prioridad ayudar a guiar al nuevo alumnado en la Universidad de las Fuerzas Humanas* | |