

Introduction and Goals

The development will consist of a WebApp whose objective is to be a decentralized chat, using SOLID technologies. This chat will allow users to exchange messages in different formats (audio, text, video), as well as other functions such as: share screen or video call; It will also allow you to save friends lists, show notifications, among other functions. It will be a web application developed at Angular, and an RDF library will be used to communicate and obtain information on the different PODs

Requirements Overview

The application will mainly comply with the following:

- The system will be based on a decentralized architecture where data storage is separated from the app
- Users can store their chat data in their own pods
- The app will allow a user to share pictures, videos or other kinds of files with other friends through the chat
- A user can get notifications when some friend wants to chat with him
- Users can have groups of friends with whom they may want to chat
- It will be possible to have group chats where all members receive the messages
- Users can have live calls and videos
- Users can share their screens in the chat

Quality Goals

The main Stakeholders of this application are Inrupt and users, I will list the most important quality goals for them:

- Usability : Ease of use by non-technical people.
- Responsiveness : The application must send messages in real time.
- Privacy: The application must keep the data private (this is what solid is based on, each one owns their data).
- Security: The application must be secure, users must know who they are talking to and who has access to the chat.

Stakeholders

Stakeholders of the system:

- Developers
- Professor
- Users
- Inrupt

Role/Name	Contact	Expectations
Developer	Laura Sanchez	Have to work with the architecture or with code, documentation of the architecture, have to come up with decisions about the system or its development
Developer	Enrique Fernandez	Have to work with the architecture or with code, documentation of the architecture, have to come up with decisions about the system or its development
Developer	Jose Luis Bugallo	Have to work with the architecture or with code, documentation of the architecture, have to come up with decisions about the system or its development
Developer	Victor Manuel Chaves	Have to work with the architecture or with code, documentation of the architecture, have to come up with decisions about the system or its development
Developer	Carlos Gomez	Have to work with the architecture or with code, documentation of the architecture, have to come up with decisions about the system or its development
Developer	Daniel Fernandez	Have to work with the architecture or with code, documentation of the architecture, have to come up with decisions about the system or its development
Professor	Jose Emilio Labra	Evaluate and guide the project
Users		Users can chat, they can have live calls and videos and they can share their screens in the chat
Inrupt	Inrupt	They has been proposed as a challenge