



UNIVERSITÀ DI PISA

Artificial Intelligence and Data Engineering

Data Mining and Machine Learning

AirBnb Price Estimation using Machine Learning

Project Documentation

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1 — Introduction

UniSup is an instantaneous chat application that allows users to exchange short text messages among them.

1.1 Description

UniSup name is composed by *Uni* that stands for University, which is the main application scope; and *Sup* which is a popular slang abbreviation that stands for "*What's up?*". Every time a **user** logs in correctly (an authentication check is performed), he/she will be able to see his/her chat history. After a click on a specific chat, he/she can visualize the list of the last messages exchanged with that particular contact. Filling the text field and clicking on the **SEND** button will send a message to the selected contact. At any time, he/she can start a new conversation with a new contact: it only requires a click on the corresponding button, typing destination username and the text Payload and click on the **SEND** button.

When a user logs into the system, he/she will receive every message sent to him/her while he/she was offline. On the contrary, while he/she is online, he/she receives messages on **REAL TIME** and the interface is automatically updated reporting the new message. Of course, messages within a chat are always displayed in chronological send order, and they are forwarded according to a **FIFO** policy.

At the application start, the user will visualize an authentication form: he/she can login with an existing account or register a new one, of course no duplicated usernames are allowed.

From the application Scene, by clicking on the **LOGOUT** button, the user logs out the system and goes back to the authentication form. The user can now login again, even with a different account.