

# User Functionality

This document explains the functionality that our software product delivers to the end user, these functionalities are:

- User creation and authentication:
  - Registration: Users can create an account using a username and password.
  - Login: Users with an existing account can log into the system with their username and password.
  - Authentication token: Users stay signed in until they logout themselves.
- Exchange rate: Users can get the current exchange rate between Lebanese Pounds and US Dollars when buying dollars, and when selling dollars.
- Calculator: Users can use the current exchange rates to calculate the value of their USD or LBP in the other currency.
- Adding Transactions: Users can add exchange transactions they had in the past, for example, you can add the following transaction: exchanged 5 USD for 55000 LBP. These transactions can be added while logged in or not.
- Fetching Transactions: Users can fetch the transactions they previously added WHILE they were logged in.
- Perform exchange transactions amongst each other: Logged in Users can exchange one currency to the other with other users on the system.
- Users can get exchange transactions they performed with other users.
- See the highest and lowest rates of the last week, these rates are:
  - Highest and lowest Buy USD rate
  - Highest and lowest Sell USD rate
- Get the fluctuation rate of the past week for:
  - Buying USD rate, example: 60% increase
  - Selling USD rate
- Graph that shows the development of the exchange rate for the past 8 weeks.