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Elixir 3 STM

iex -S mix   to start module

STM is implemented by using :mnesia.transactions in the methods that are called by the different processes triggering requests. To avoid inconsistency, methods like count and printing are done also within a transaction and after the result is digestible the result is displayed in console.

Function Flow

Rider.start :   it will start the agents

Rider.menu: lets you just press numbers to trigger the options (make requests, select one,
.   reset requests and exit)

Rider.register: it will allow you to register an app with a communications channel. In order to
.   register more than 1 app, run the function as many times as apps you want
.   to add. As of now the Program is limited to only 5 apps of the users choice.

Rider.unregister({"<app>","<comm>"}): it is necessary to enter the name and channel in the
.   form shown above for it to actually unregister it.

Rider.requests: if apps are empty it redirects you to it. Makes and prints 10 new requests and
.   then asks for an option, you can continue getting requests or select, in order to
.   select you only require to type the number of the service you want to ride. It will
.   take you to a drive screen where you wait the assigned time of that service.
.   For convenience sake, all times are relatively short, under 30 seconds.

Rider.reset_apps
Rider.reset_count
Rider.reset_select
Rider.reset_reqs

These functions return the Agents to their original State

Rider.currrent_apps
Rider.current_count
Rider.current_select
Rider.current_reqs

These functions return the current state of the agent in its name