

Robotic Process Automation (RPA) for Transport, Travel and Logistics

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Transportation, travel and Logistics (TTL) industry

Hard hit by
Covid-19
pandemic

Need to
optimize
their
operations

Irregular
demand

Cost
cutting
needed

Solutions
sought
after

Use cases of RPA into the TTL industry

Shipments scheduling and tracking

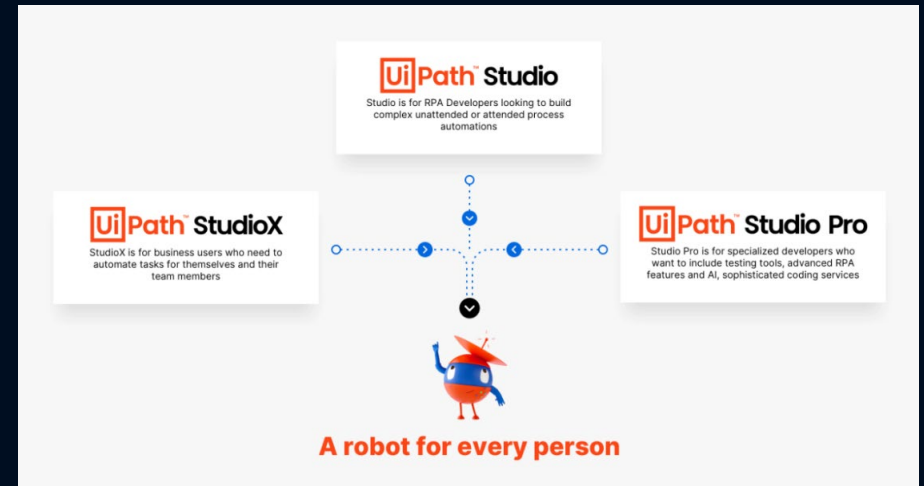
Inventory and orders processing

Communication

Invoice processing and loan portfolios

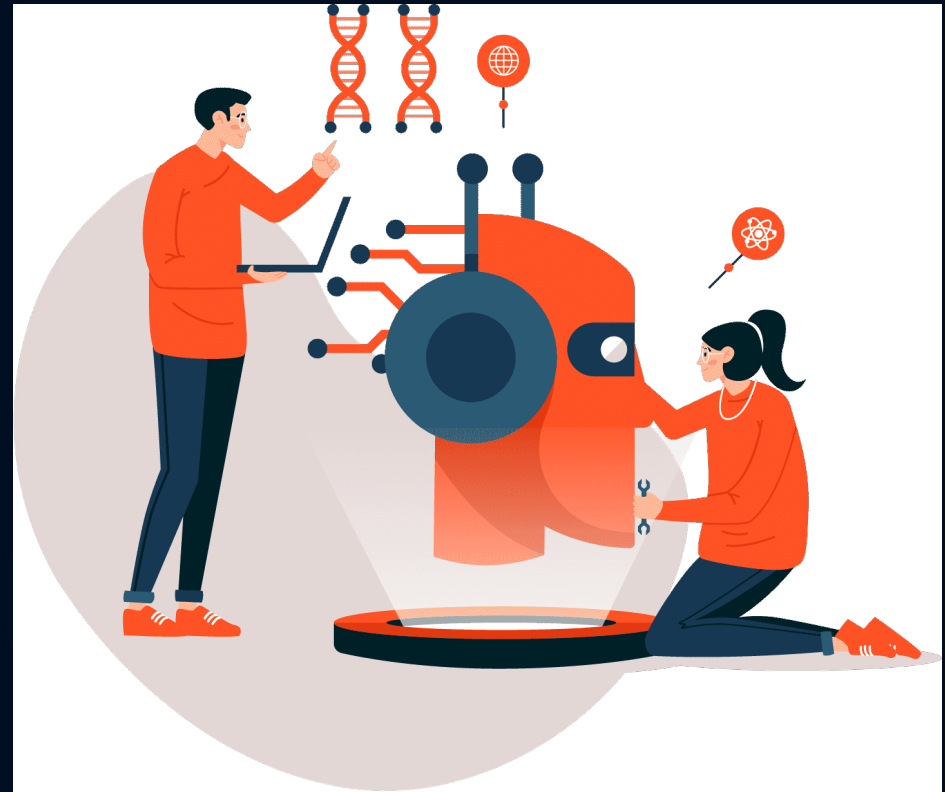
State of the Art

- UiPath
- UiPath Studio
- UiPath Orchestrator



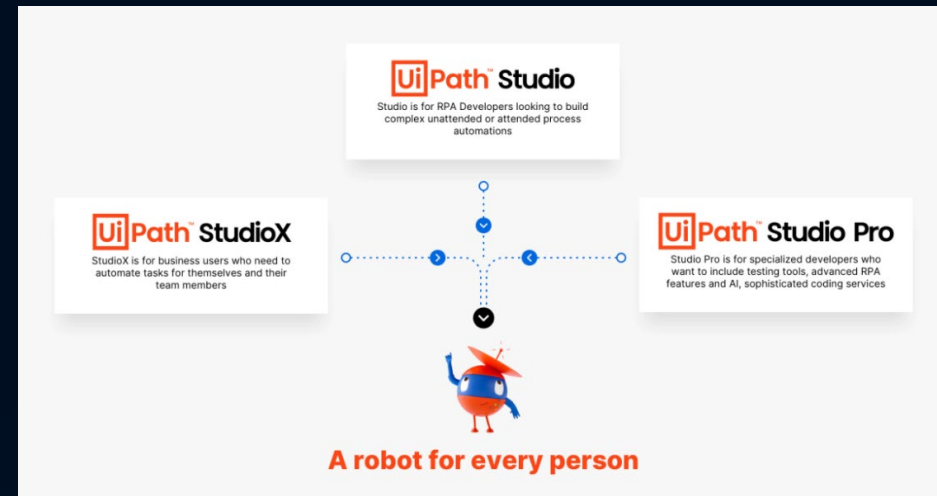
UiPath

- Founded in Romania
- Key player in RPA business
- Provides a suite of automation software through UiPath Studio



UiPath Studio

- Sophisticated automation software
- Aimed towards all types of customers
- UiPath StudioX, aimed towards business users
- UiPath Studio, for RPA developers
- UiPath Studio Pro, designed for specialized developers



UiPath Orchestrator

- Orchestrate robots for repetitive tasks



Requirements

- **Functional requirements:**

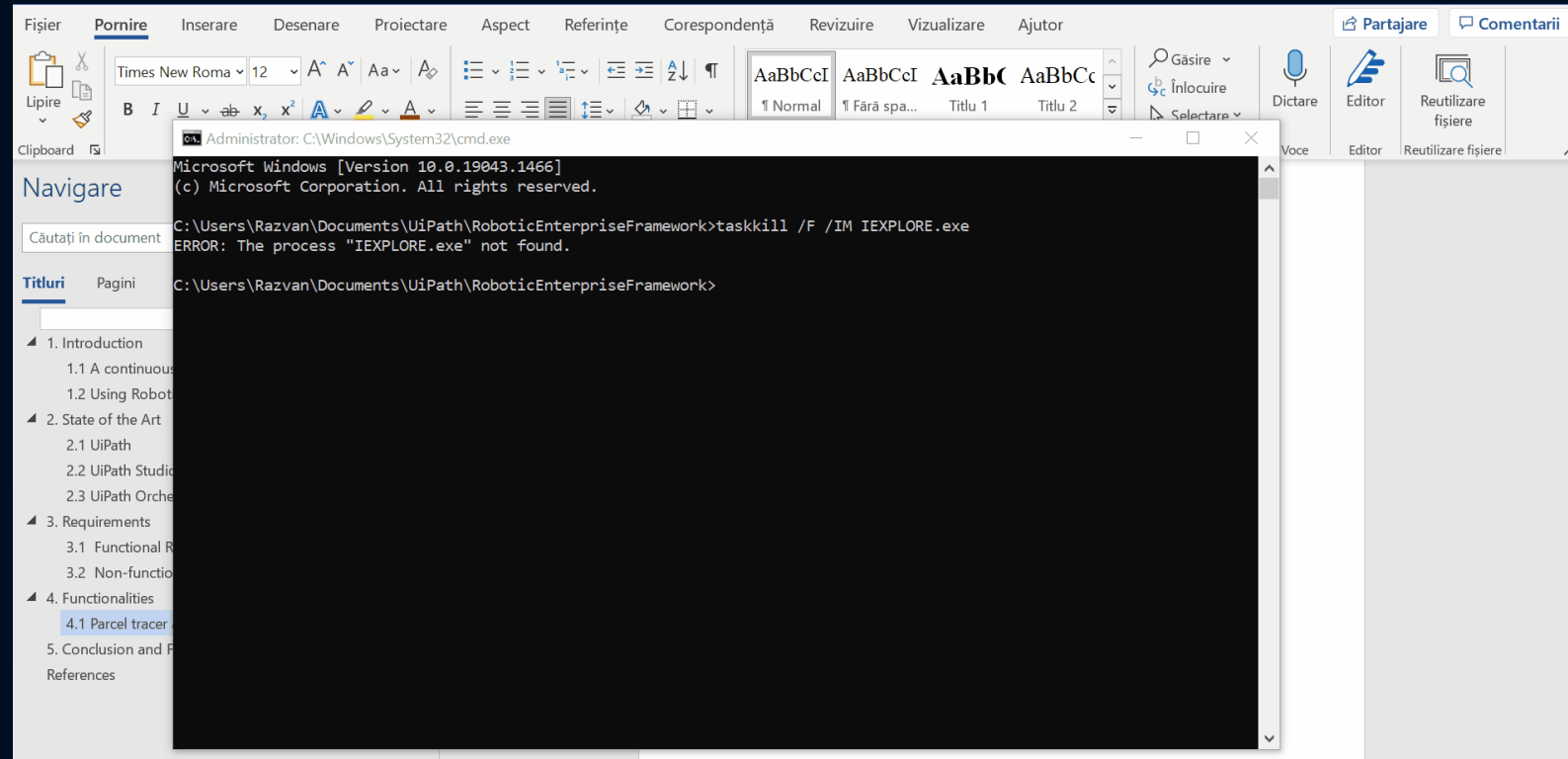
- ✓ Parcel tracer
- ✓ Retrieving AWB from email
- ✓ Email notifications
- ✓ Managing multiple deliveries from various carriers

- **Non-functional requirements:**

- ✓ User-friendly interface
- ✓ Usability
- ✓ Extensible
- ✓ Accessibility

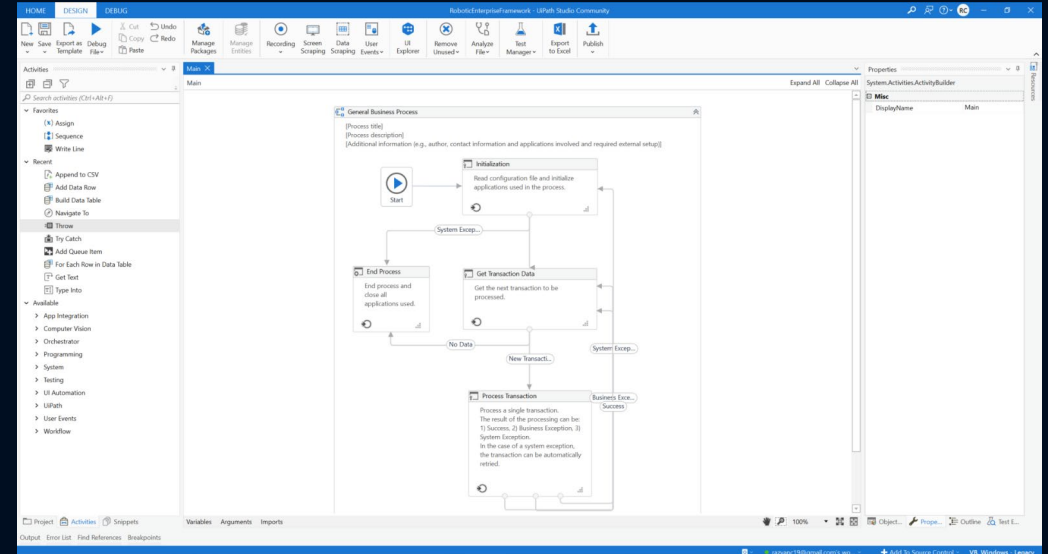
Functionalities

- Parcel tracer and status retriever
- Implemented using UiPath REFramework



UiPath REFramework

- Framework for complicated automations
- High level exception handling and application recovery
- Built over Transactional Business Process template



Conclusions and Future Work

Transportation, Travel and Logistics Industry in need to recover and redevelop

Different use cases of RPA into TTL industry

Numerous RPA solutions developed by UiPath for this market

Functional and Non-functional requirements based on data gathered from the survey

Implemented functionality: Parcel tracer and status retriever, using UiPath REFramework

Further documenting and implementing more use cases of RPA on a sector of the TTL industry, based on the requirements presented in the current research