Automating Business Processes

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Why is automation important?

Main Benefits:
- Significantly reduces time required to complete a task
- Saves money and resources
- Incorporates technology into trivial processes, allowing people to concentrate on real, more abstract problems

Where did I work?

- Yupana
  - Who are we?
    - A fast growing technology company servicing the needs of various clients throughout the globe
      - Mobile operators
      - Accounting firms
      - Independent businesses
    - International network of engineers and software developers

Whom did I work with?

- Worked with a team run by one of the founders of Yupana (*Christian Taltas*)

- Occupations:
  - Enhanced the main framework
  - Developed and designed the wireframe for a web application for one of his personal projects
  - Automated the documentation

Christian Taltas

Loop Software

- Used to digitally transform businesses
- Introduces concept of collaborative accounting
- Created with the support of KPMG
- Uses Microsoft Azure storage
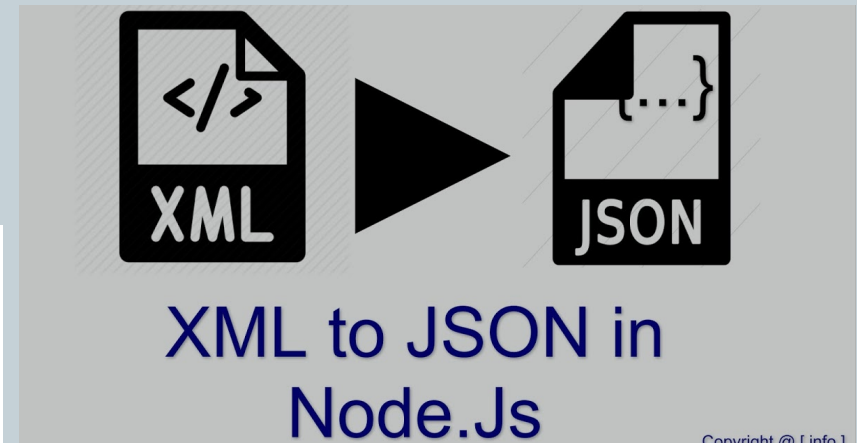
Loop Software's Feautures

- Digitalizes a wide array of processes:
  - Accounting
  - Billing
  - Tax
  - Payroll
- Worked on accounting and taxation software
- https://www.youtube.com/watch?v=g8fhxDK4Tck

Invoice Recognition Software

- PDF → XML
  - Third-party (Invensis conversion software)
- XML → JSON
  - Parsing algorithm
- JSON → Microsoft Azure
  - Cognitive Services and Storage

- Support all types of PDF 1.0 - 1.7.
- Convert PDF as file, stream, uri, or byte array.
- Produces well-formed XML document.
- Offers two conversion modes: convert all text or only tabular data.

XML to JSON in Node.Js

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Advantages

- "http" module on Node.js
  - Ideal for testing software before mounting
  - No need for a stack
  - Easy to handle requests
- Microsoft Azure
  - Powerful and fast
  - File storage/Blob storage
- React Native
  - Easy to develop mobile app in JavaScript