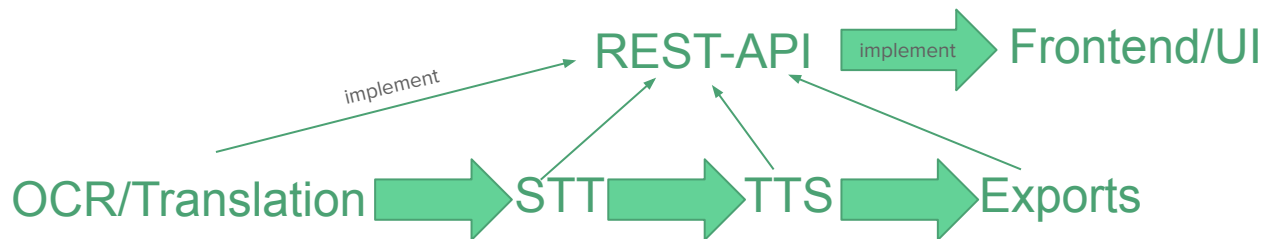


Textify

By Anton Nikolai, Christian Jaide, Joel Koch, Aaron Sonntag

Project goals

- Web-based tool for digitizing and translating printed content.
- Uses OCR to extract text from scanned images (blackboards, books, ...).
- Translates recognized texts.
- Text-to-speech function reads texts aloud.
- Speech-to-text option converts spoken content into text.
- NLP functions.
- Various export options.



Project scope

- Requirements analysis and making a plan.
- Preparation of the development environment for the use of the selected technologies (libraries, frameworks) and basic tools (git)
- Tests, validation and selection of models for the different modules:
- OCR, Picture in picture recognition, translations, Speech synthesis (TTS and Speech2Text)
- Tests, validation and selection of server technologies, frameworks and libraries to use
- Implementation
- Tests of the results, Documentation

Potential Risks

General risks relating to the models:

- Difficulties selecting the right models.
- Handling models may require complicated customization.

Specific risks:

- OCR accuracy with low-quality or complex images.
- Machine translation errors, especially less common languages.
- Modest quality of text-to-speech models.
- Need of high processing power for large input data.
- Selecting suitable web technologies for implementation.

Home

Archive

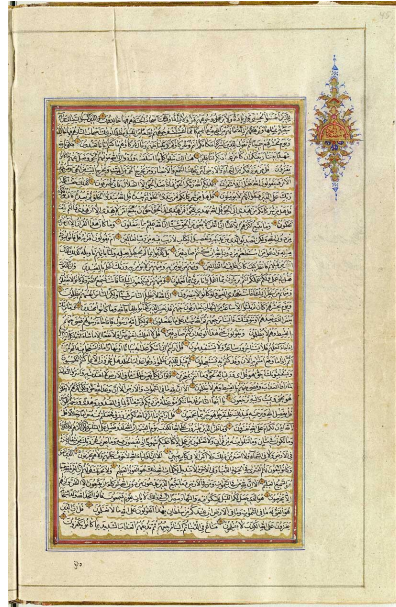
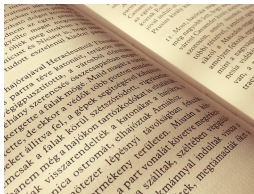
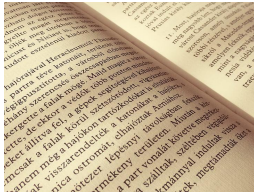
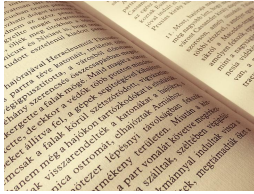
Tools

Settings

Account

TTS/STT

Scan Input files (jpg, png, zip, etc.)



Output viewer

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