

Unbekannter Benutzer

- Achivements

- Insights

- Risks

- Conclusion

Klare, Heiko

Achievements

Klare, Heiko

Insights

Klare, Heiko

Risks

Jeanne, Federico

SWT fragment compiles (not all other projects do)

Open Shell using UNO (SWT in the low-level layer)

Button

- No radio/check buttons, no other style bits

- Partial color implementation, no patterns

- Reacts to "clicks"

Label

- With text & image

- No styles (plain label)

ProgressBar

- setValue

Debugging possible (with additional effort)

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Asynchronous execution via display / UI thread

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Is it possible to add further UNO/VCL features (if it is depracted)?

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Not evaluated:

- HiDPI / SVG

- WebAssembly

- Browser Integration

- Accessibility

- Embedding

AWT/OpenGL/JavaFX/Handles

- Multiple Displays

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TODO: To be checked AWT-integration

=> See developer documentation

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Documentation is not extensive

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C(++) knowledge required:

- Minimal LibreOffice Application

- Adding new VCL/UNO features

- Debugging

- API library

- Bug Fixes/Maintenance

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2 process concept can lead to unpredictable states between the processes. For example if runtime errors occure, the other process continues.

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2-Process concept leads to a highly probable performance decrease compared to other technologies.

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2-Process concept leads to not reliable behaviour. This means requested interfaces are just null.

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No general usage, only LibreOffice, resp as extension of LibreOffice.

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Insufficient UNO API as widget toolkit: change window header not possible.

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VCL is internal cod not inteded to be used by external applications

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No "standalone" widget implementation based on Skia graphics --> SWT-like problem

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VCL and UNO are actively developed / deprecated by LibreOffice team => Can be ideally replaced by GTK

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Maintenance of LibreOffice Code (either VCL or UNO) would be required

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No improvements w.r.t. testability expected, as direct access to VCL widgets difficult

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Order of SWT calls could not be covered by UNP API
E.g., Image in Label required ugly hack: Dedicated window had to be opened and closed to copy the image

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Limited themeing capabilities due to also being tied to OS implementations (particularly Windows/MacOS)

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WebAssembly: <https://wiki.documentfoundation.org/Development/WASM>