Common Standards for JavaFX GUI Development and its Application to the Renovation of the CERN Beam Instrumentation Software Portal and Delivery Mechanism

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Abstract
This poster describes the standardisation of the Java GUI development in the CERN Beam Instrumentation group with the use of maven archetypes for templating applications. In addition, it presents the modernisation of the software delivery process and subsequent renovation of the software portal.

Common Standards
With the use of Maven archetypes to create JavaFX template applications, the enforcement of common standards is facilitated while accelerating the GUI development.

Conclusion
By adopting the development standards and templating mechanism, we benefit from:
- Faster development
- Easier maintenance
- Modularity & reusability in Expert GUI applications & libraries

The renovation of BI Software Portal allows to:
- Have a single point of reference
- Search, launch & document software
- Personalise a dashboard with GUI applications
- House widely used links & documents

Software Portal

Users can personalise their dashboard by selecting their favourite applications. In addition, they can easily access the recently visited Expert GUIs.

Elastic search with application’s details

Websites and tools widely used by the team

Examples