

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

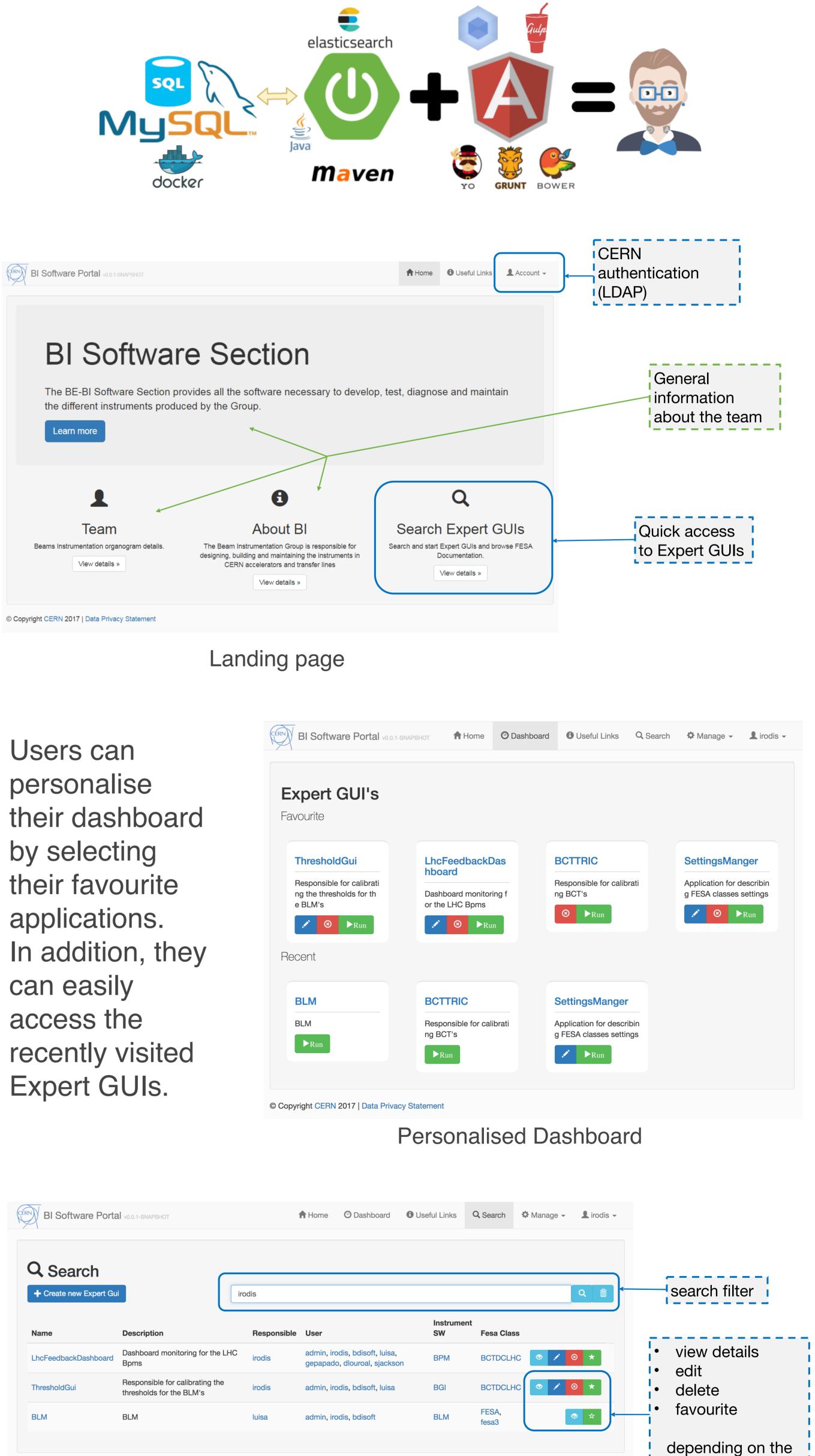
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Abstract

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.

Software Portal

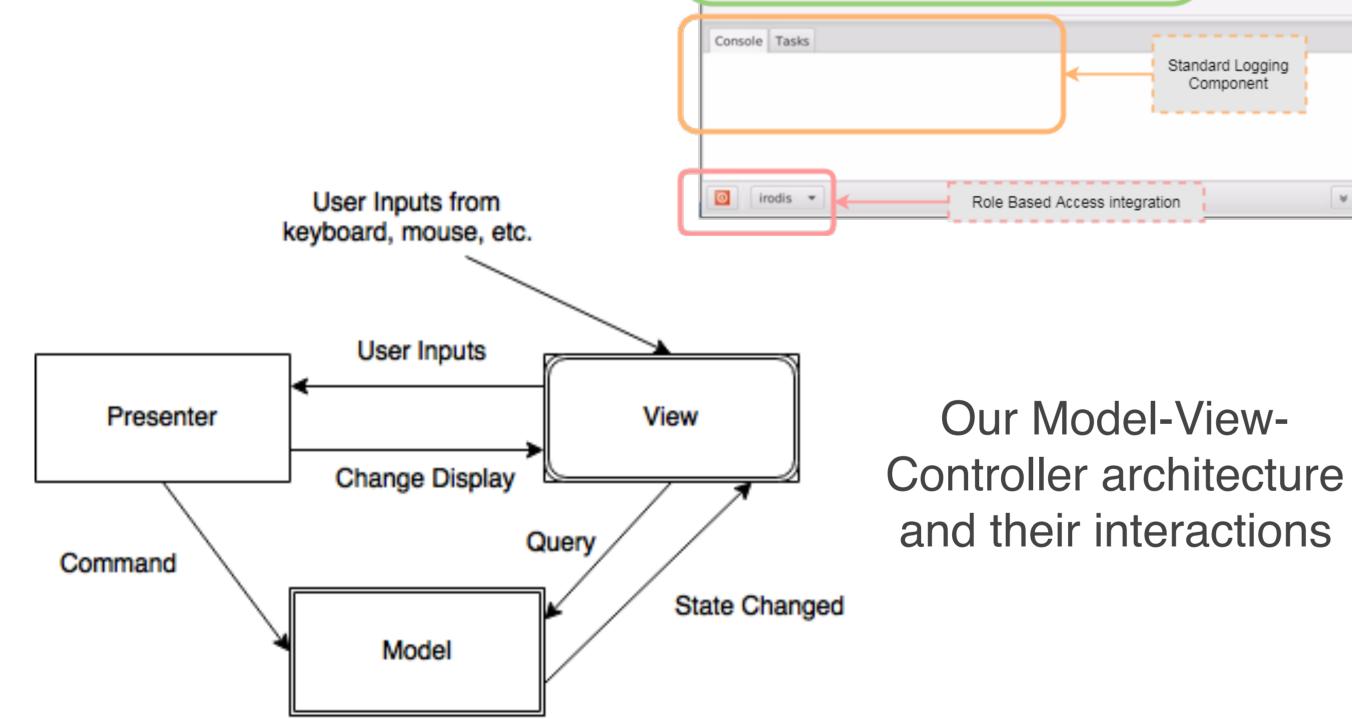


Common Standards

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

Template application with common tools and structure.

	Hello JavaFX!	×
S ALL SFTION1 HIRADMT2 LHC1 ZERO SFTION2 LHCPILOT LHC2 SFTPRO1 SFTION3 LHCINDIV LHC3 SFTPRO2 SFTION4 LHC50NS LHC4	AWAKE2 LHCION1 LHCION2 LHCION2 SFTPRO2 9 MD1 15 SFTPRO2 24 LHCION1 31 MD2 34	
MD2	•	
Person Tab Todo 2 Tab		
		Accelerator Context
Person Id:	1 Sav	e Selection
First Name:	Clos	e
Last Name:	Run T	ask
Birth Date:	mm/dd/yyyy	Modular, widget-based Tab View
Age Category:	UNKNOWN	



Conclusion

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Elastic search with application's details

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

BI Software Portal 🗤 Websites and tools widely used 🚯 Useful Links 🔍 Search 🗸 💄 atopalou by the team Useful Links Search: Search filter Examples LHC Schedule Team collaboration wiki & documentation page 24 Operational accelerator status page Useful Links

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