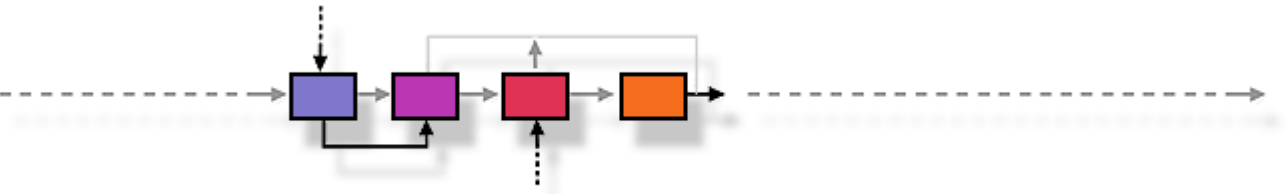




Java
Community
Process



JSR 377

Desktop Application Framework

May 24th 2018

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Agenda



- Goals
- Information to be gathered
- Implementation notes
- Issues
- Questions, discussion, next steps



Goals

Goals



- Define APIs that can be used to build Java Desktop (and possible mobile) applications.
- Inspired in previous efforts such as JSR 296 (Swing Application Framework) and JSR 295 (Beans Binding)
- JSR 377 does not target a single UI toolkit. It should be possible to use existing toolkits such as Swing, JavaFX, SWT, Apache Pivot, Lanterna, others.



Information to be gathered

About this JSR



- Provide the following features
 - application life cycle
 - localized resources (and injection)
 - persisted session state
 - loosely coupled actions
 - dependency injection
 - event system
 - centralized error management
 - extension points via plugins

Introduction



- JSR 193 – Client Side Container
- JSR 296 – Swing Application Framework
- JSR 295 – Beans Binding

- JSR 296 had the following goals
 - application life cycle
 - localized resources (and injection)
 - persisted session state
 - loosely coupled actions
 - targeted only Swing for obvious reasons

Business/marketing/ecosystem justification



- Why do this JSR?
 - Desktop application development can benefit from lessons learned by JavaEE standardization.
- What's the need?
 - Applications can't share code/components unless they are written using the same base platform (NetBeans, RCP, Eclipse RCP, homegrown).
- How does it fit in to the Java ecosystem?
 - Desktop applications are still being built.
- Is the idea ready for standardization?
 - UI toolkits and desktop platforms are mature enough.

History



- List the significant dates in the history of the JSR.
 - Submitted on 29 Dec, 2014.
 - Review Ballots: 27 Jan, 2015
16 Feb, 2016
14 Mar, 2017
 - API drafted.
 - TCK at 50% completion.
 - Work on RI started.
 - Spec document in progress.

Technical scope and features



- API targets JDK8 byte code, originally targeted JDK 7.
- The API is independent of any UI toolkit at its core but provides hooks for specific implementation, such as the case of handling the particulars of the UI thread.
- All original features proposed by JSR-296 are in scope.
- JSR-295 has been superseded by JavaFX bindings.

The Expert Group



- The EG is comprised by Java Champions, JavaFX experts, NetBeans Dream Team member, and other interested parties.
- The EG discusses ideas using the mailing list, GitHub issues, Gitter (online chat) and occasional face-to-face meetings at conferences and JUG events.

Other deliverables



- Other than Spec, RI, and TCK are you delivering, for example:
 - Additional documentation
 - User's guide
 - Sample code

Publicity



- <https://jug.bg/ftp/jPrime/2016/slides/JSR377:%20What's%20up%20and%20what's%20next%20-%20Andres%20Almirai.pdf>
- GeekOUT
- Soujava Online
- JVM MX
- JavaOne

Implementations



- How many implementations (apart from the RI) exist?
 - None yet

Schedule



- Indicate the expected schedule to completion of the JSR, with milestones and JSR stages.

IP flow



- Provide pointers to the licenses for the Spec, RI, and TCK.
 - Apache v2 License
- How are you handling contributions from non JCP members?
 - Apache v2 License
- What Terms of Use apply to your collaboration tools?
 - None
- Do you have a Contributor Agreement?
 - Yes
- Any legal issues or concerns?
 - None at the moment

RI and TCK development



- How are you developing the RI and TCK?
 - In the open using the Griffon framework as testbed
- If collaboratively (through an open-source project)
 - How many committers and who?
 - Andres Almiray, Alexander Klein
- Is the RI available for public download?
 - <http://github.com/griffon/griffon> (not yet retrofitted with jsr377-api)
- Is the TCK available for public download?
 - Yes
- Do you have a source-code repository?
 - <https://github.com/jsr377>

Participation and transparency



- Provide a pointer to the JSR page on JCP.org
 - <https://jcp.org/en/jsr/detail?id=377>

Adopt-a-JSR



- Are you participating in the Adopt-a-JSR program?
 - Not yet.
- If so, what kind of contributions/help have you received and from whom/which JUGs?
 - We have received a handful of contributions at Hackergarten meetings in Basel, Zürich, Luzern, and JavaOne.

Mailing lists or forums



- How are you communicating with the public and how can they communicate with you?
 - <http://jsr377.github.io/site/>
 - <https://twitter.com/jsr377>
- Provide pointers to public mailing list(s) and/or forum(s)
 - <http://jsr377-api.40747.n7.nabble.com/>
- Total number of participants (EG members, non-EG members?)
 - 20

Issue tracker



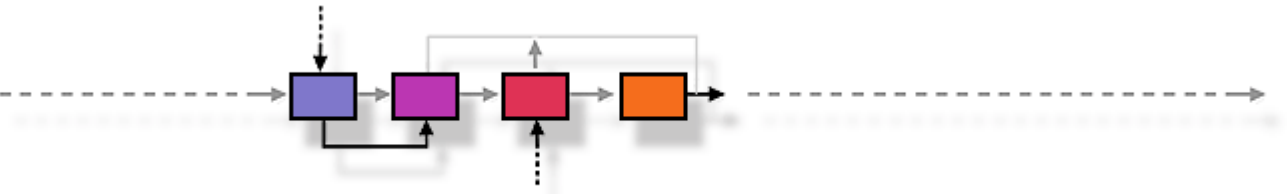
- Total number of issues?
 - 6
- How many in each state (open, closed, deferred, etc?)
 - 4 open, 2 closed
- Average number of issues logged per month?
 - 0
- Average number of issues resolved per month?
 - 0
- How many different people logged them?
 - 3



Questions, discussion, next steps



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Thank you!
<http://jcp.org>