[DESKTOP|EMBEDDED] APPLICATION API JSR
PREVIOUS ATTEMPTS

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
CURRENT STATE

Several UI toolkits to choose from:

Swing, JavaFX, SWT
Apache Pivot, Lanterna, Qt

Several frameworks to choose from:

Eclipse 4 Platform, NetBeans
Griffon
DataFX, JacpFX, MvvmFX, JVx
and more ...
Many of the listed frameworks offer the following capabilities implemented in different ways:

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

All of the listed frameworks support the Desktop as target environment.

Only a few can be used in an Embedded environment (where Java SE is supported).

Embedded Java UI applications can be built as applications that target the Desktop; share codebase even.
GOALS OF THIS JSR

Target Desktop and Embedded environments
Support several toolkits
Be an standalone JSR, i.e, no need to include in JDK
Leverage existing JSRs:
  JSR 330 – Dependency Injection
  JSR 365 – Event bus (from CDI 2.0)
  Java Config (?)
CORE FEATURES

application life cycle
localized resources (and injection)
configuration
MVC artifacts
loosely coupled actions
dependency injection
event system
centralized error management
extension points via plugins
POSSIBLE ADDITIONS

Runtime:
  persisted session state
  artifact introspection API

Buildtime:
  test support
  deployment
SUPPORTERS

Java Champions such as
  Johan Voss, Alan Williamson, Lars Vogel,
  Jim Weaver, Gerrit Grunwald

Well known Java community members
  Sven Reimers, Hendrik Ebbers, Sharat Shandler
  Raj Mahendra (JUG Hyderabad)
  Mohamed Taman (Morocco JUG)

Vendors
  BSI (interested)
QUESTIONS?