

Sandboxing.

Explicit Intent via Entitlements

Key	Type	Value
▼ Xcode Entitlements	Dictionary	(7 items)
com.apple.security.app-sandbox	Boolean	YES
com.apple.security.files.bookmarks.app-scope	Boolean	YES
▼ com.apple.security.temporary-exception.files.absolute-path.read-only	Array	(1 item)
Item 0	String	/usr/local/bin/ksdiff
com.apple.security.files.user-selected.read-write	Boolean	YES
com.apple.security.network.client	Boolean	YES
com.apple.security.personal-information.addressbook	Boolean	YES
▼ com.apple.security.temporary-exception.files.home-relative-path.read-write	Array	(6 items)
Item 0	String	/.gitconfig
Item 1	String	/.gitconfig.lock
Item 2	String	/.subversion/config
Item 3	String	/.subversion
Item 4	String	/.hgrc
Item 5	String	/Library/Application Support/Kaleidoscope/

Per-Process State

User Selects File

User Selects File

App Gets NSURL

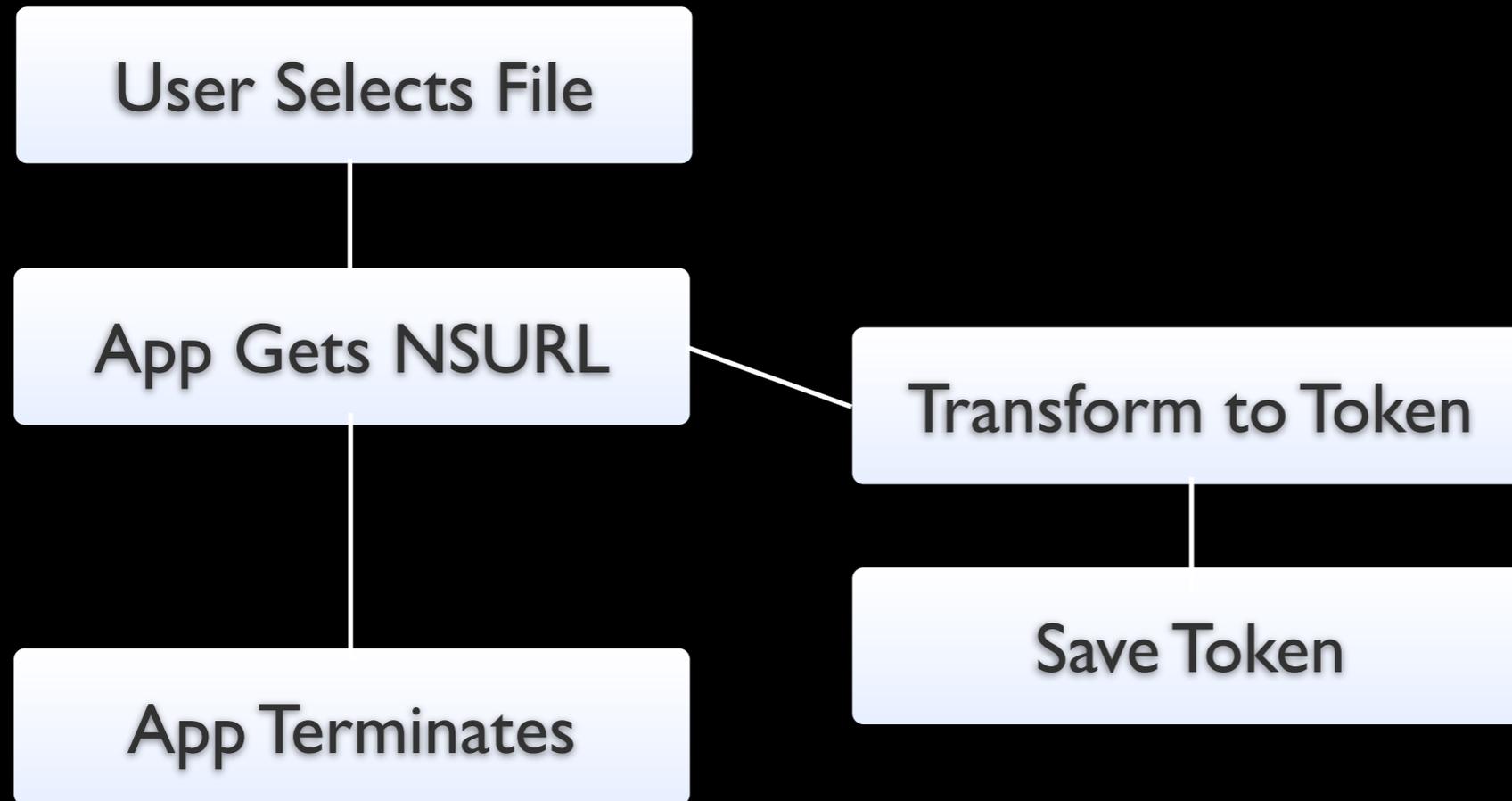
User Selects File

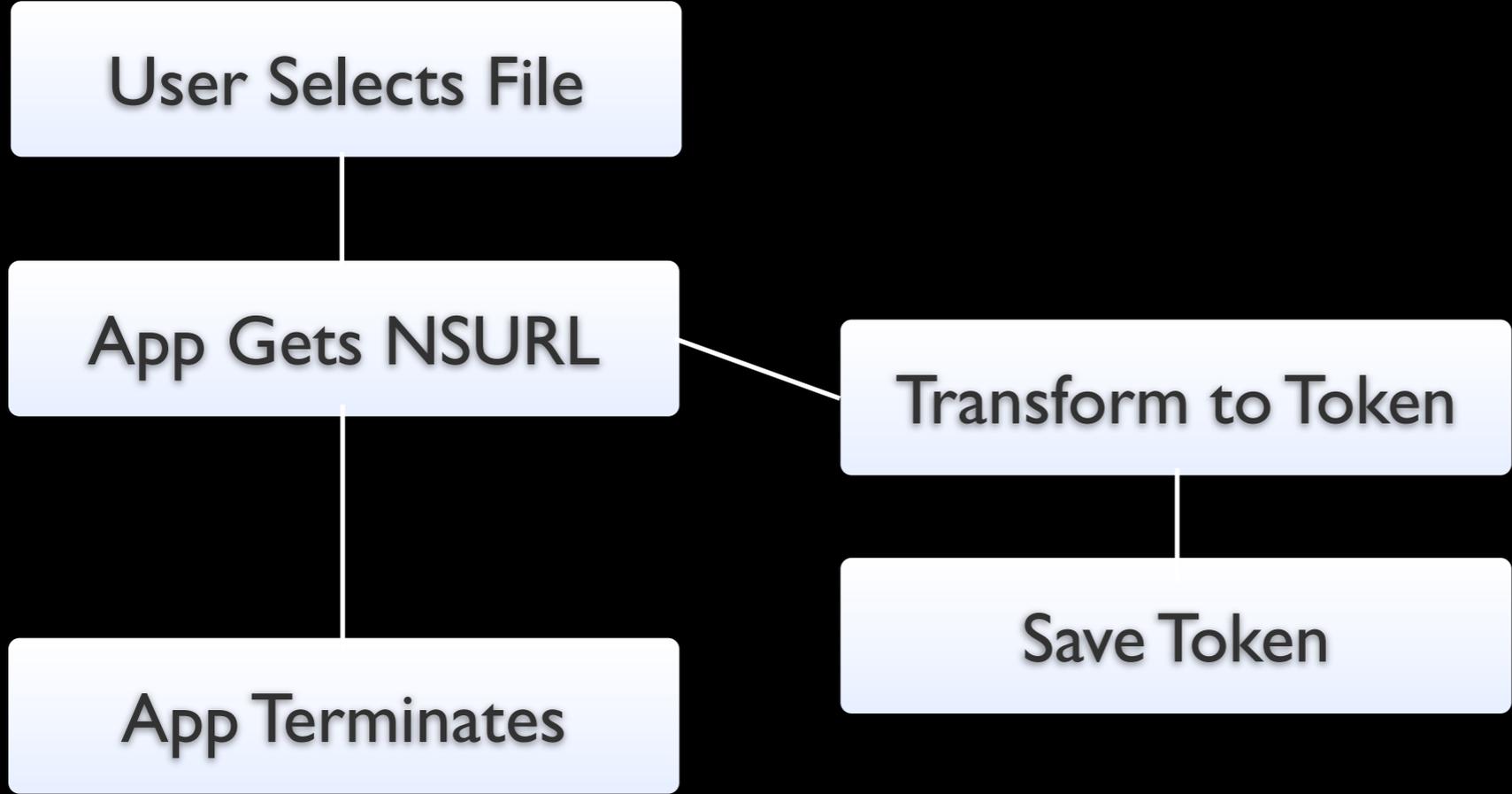
App Gets NSURL

Transform to Token

Save Token







User Selects File

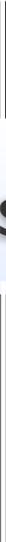
App Gets NSURL

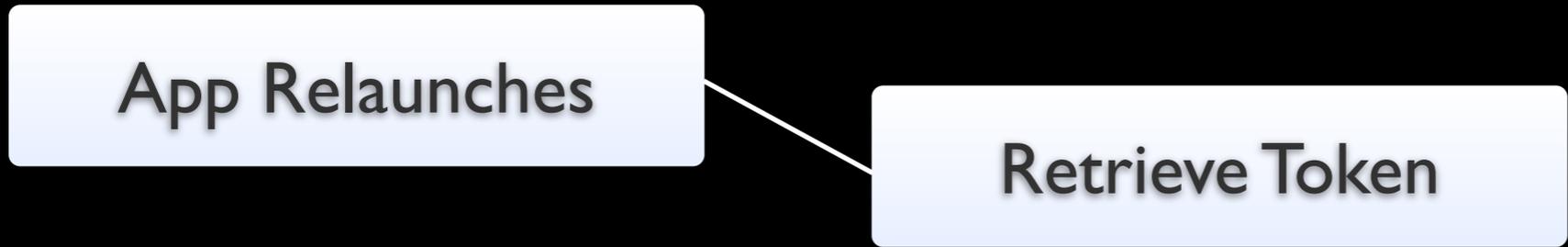
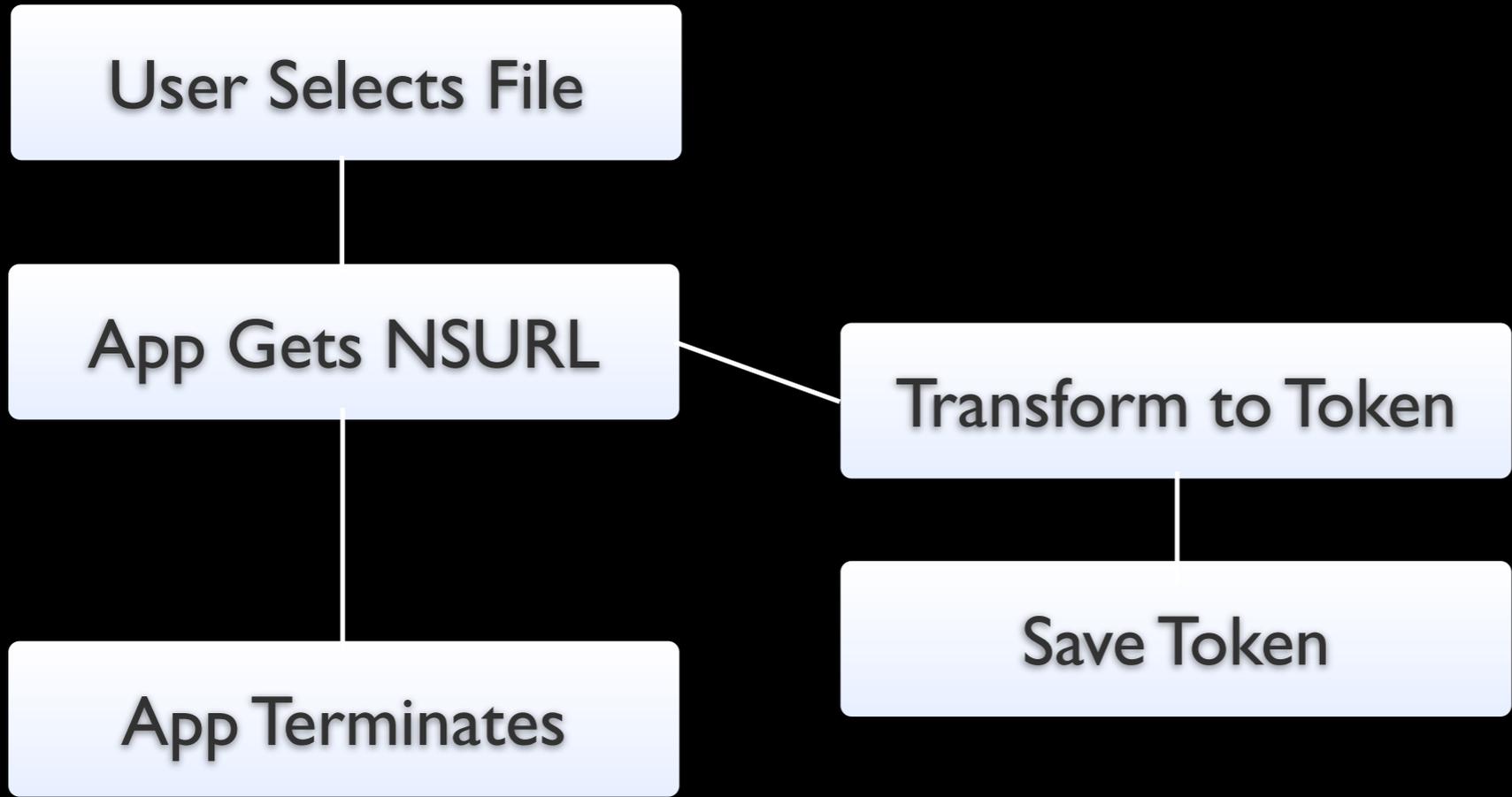
Transform to Token

Save Token

App Terminates

App Relaunches





User Selects File

App Gets NSURL

App Terminates

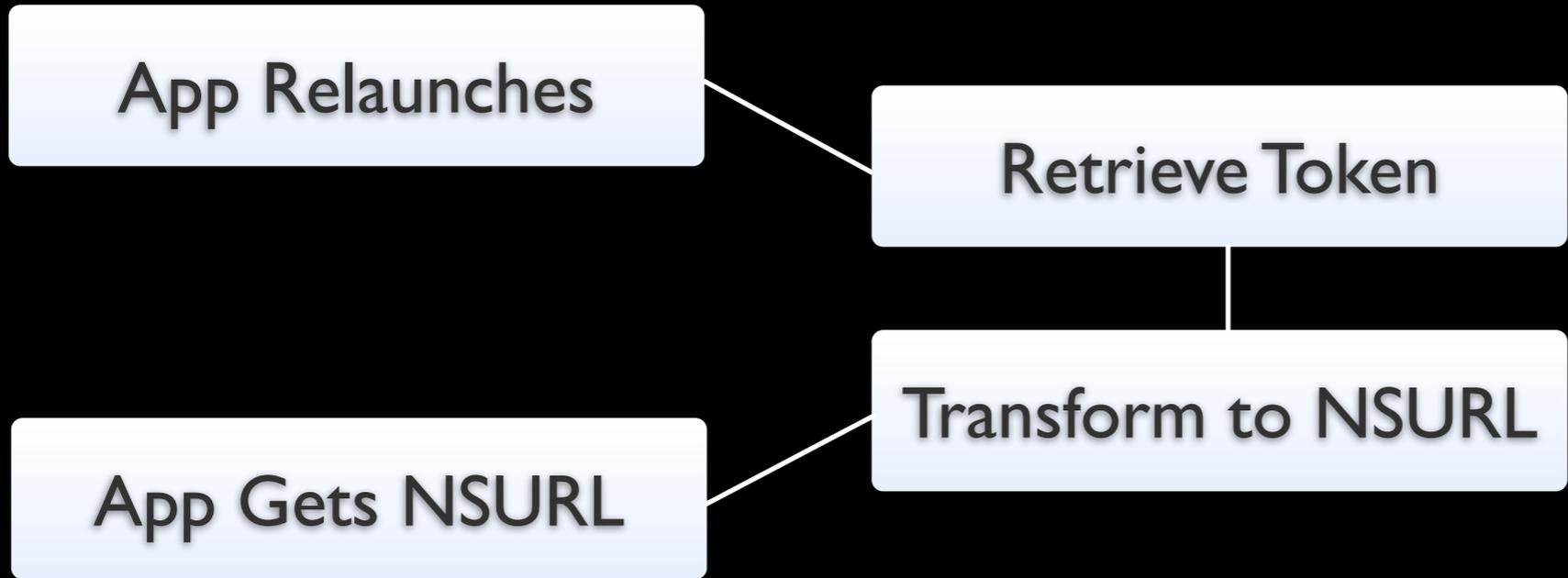
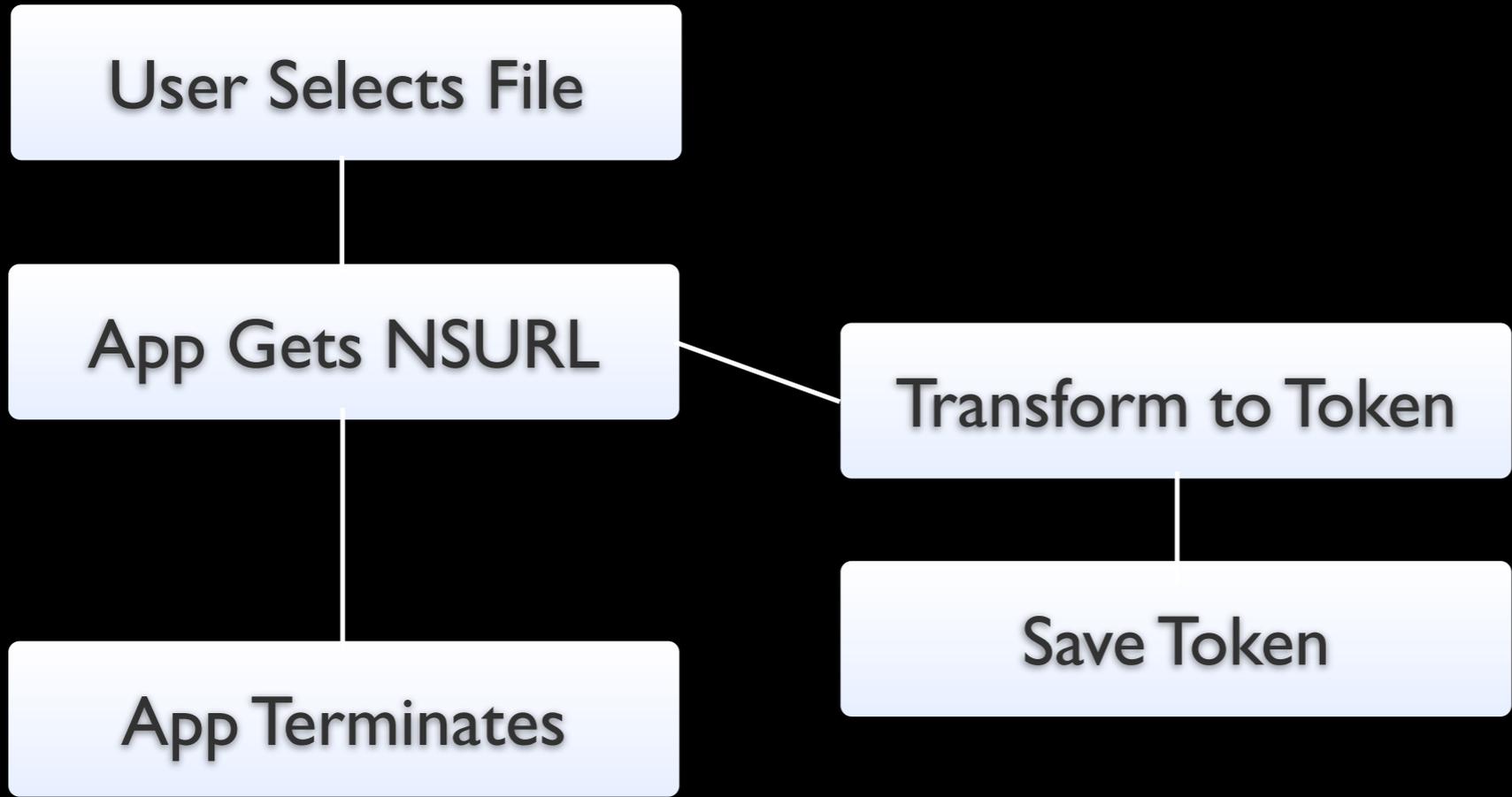
Transform to Token

Save Token

App Relaunches

Retrieve Token

Transform to NSURL



It's Code Time.

It works... mostly.

File System

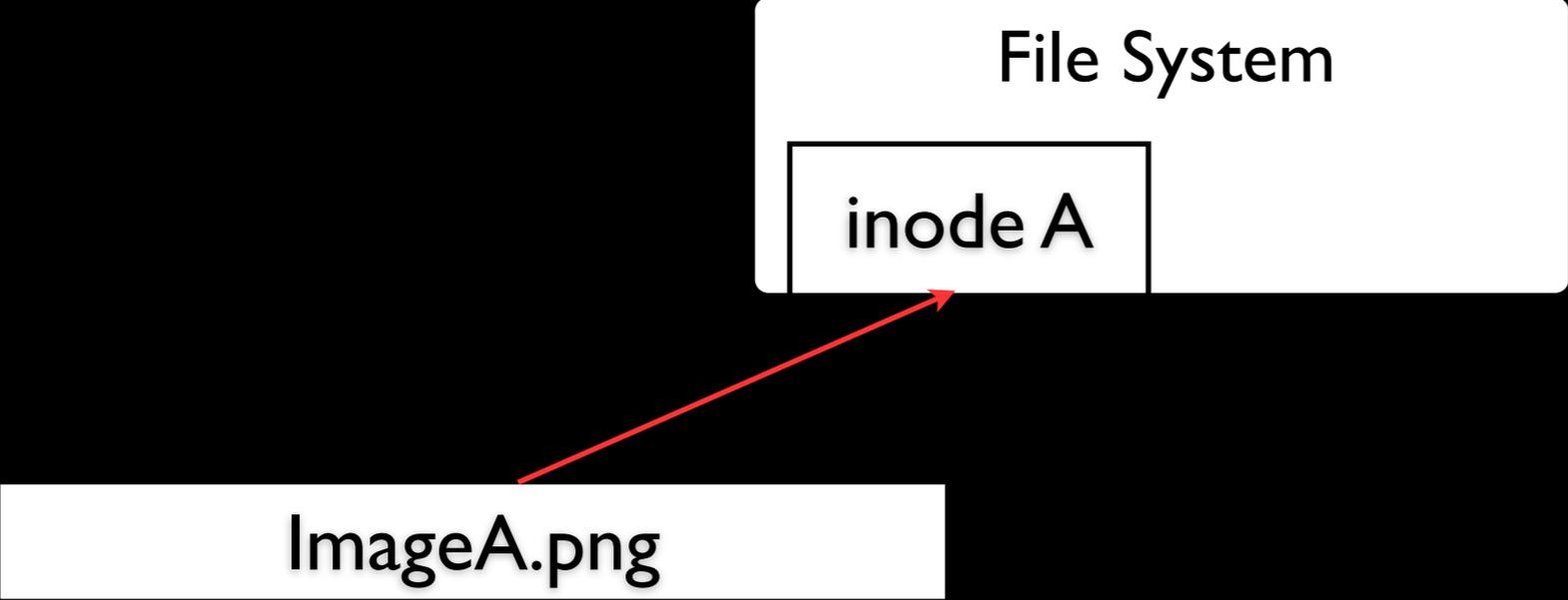
File System

ImageA.png

File System

inode A

ImageA.png

A diagram illustrating the relationship between a file and its metadata. A white rectangular box labeled 'ImageA.png' is positioned on the left. A red arrow points from the right side of this box to a smaller white rectangular box labeled 'inode A'. This 'inode A' box is located inside a larger white rounded rectangular box labeled 'File System'.

File System

inode A

inode B

ImageA.png

ImageA Copy.png



File System

inode A

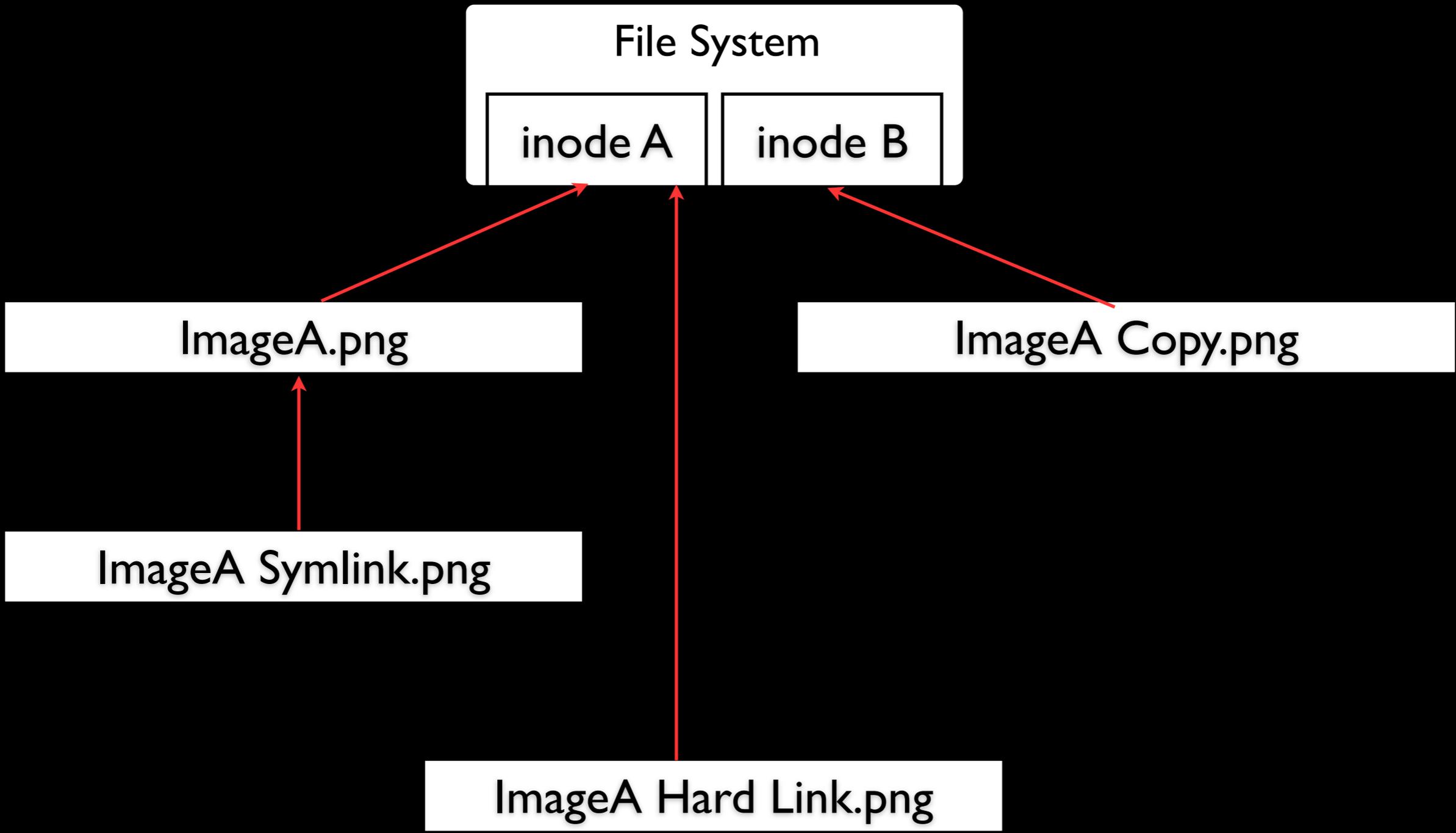
inode B

ImageA.png

ImageA Copy.png

ImageA Symlink.png





File System

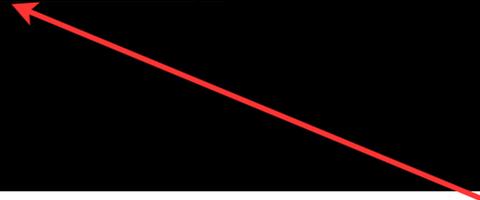
inode A

inode B

ImageA Copy.png

ImageA Symlink.png

ImageA Hard Link.png



Rick Fillion

Senior Developer, Black Pixel

rick@blackpixel.com, @rickfillion