

Joget DX 8

Version Control

 <http://facebook.com/jogetworkflow>

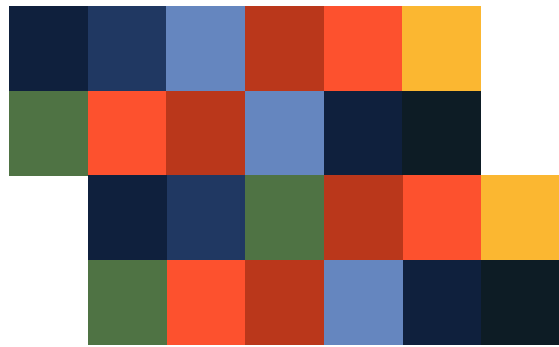
 <http://twitter.com/jogetworkflow>

Prerequisites

1. Good understanding on concept of Application in Joget with the know-hows to create Process, Form, List, and UI.
2. Basic understanding on versioning.

Content

1. Introduction to Version Control
2. Process Version Control
3. Application Version Control
4. Git Version Control
5. CI/CD
6. Collaborative Development



Chapter 1

Introduction to Version Control

Version Control

- There are 3 types of version controls available in Joget App management. They are:-
 - Application Version.
 - Process Version.
 - Git Version.

Version Control

- Which, when, and how do we make use of version control?
 - Process Design Fixes or Update.
 - Application Form / List / UI design update.

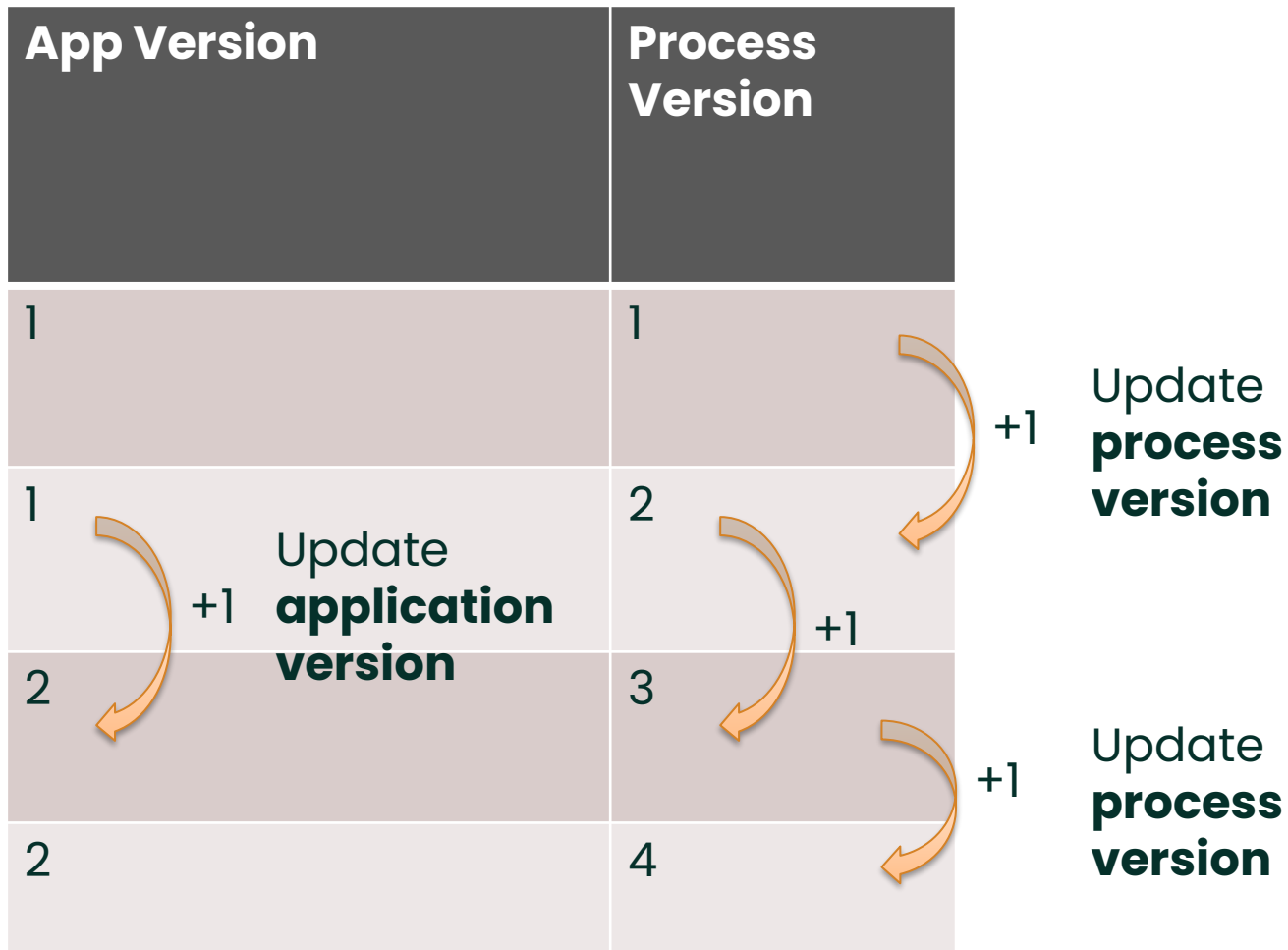
Version Control

- Updating Process version
 - Updates only the Processes under the current Application version.
 - **Updates** existing running instances of the processes found under the current Application version to the new process design.
- Updating Application version
 - Makes a copy of the Processes, Forms, Lists, UIs of the current version to the new version.
 - Includes all the Processes, Forms, Lists, and UIs.
 - Does **NOT** affect any running process instances.

Version Control

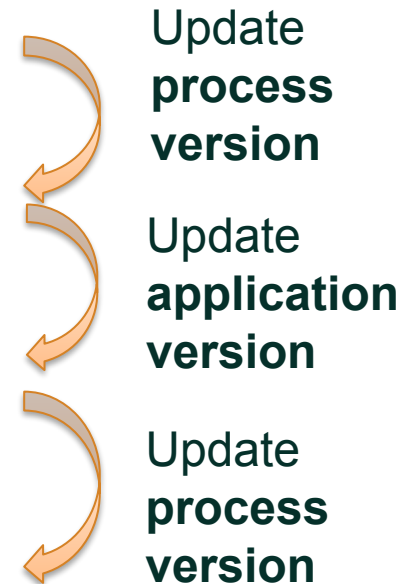
Action / Components	Update Process Version	Update Application Version
Process	✓	✓
Form		✓
List		✓
UI		✓
Application Settings		✓

Version Control



Version Control

App Version	Process Version	Migrate existing running instances of the current App version to new Process version
1	1	
1	2	<ul style="list-style-type: none"> • Yes (All that are created under current App version)
2	3	<ul style="list-style-type: none"> • No
2	4	<ul style="list-style-type: none"> • Yes (All that are created under current App version) • Will not affect instances of App version 1)

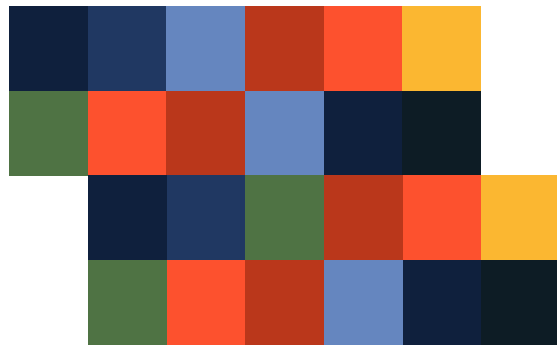


Use Cases

- Updating the Process version is ideal when:-
 1. Urgent update to process design flaw.
- Updating the Application version is ideal when:-
 1. Application is ready to be pushed to production.
 2. Completed design ready to be backed up as a version/backup before moving on to the next iteration of development.

Chapter Review

- Understand the various types of version control.



Chapter 2

Process Version Control

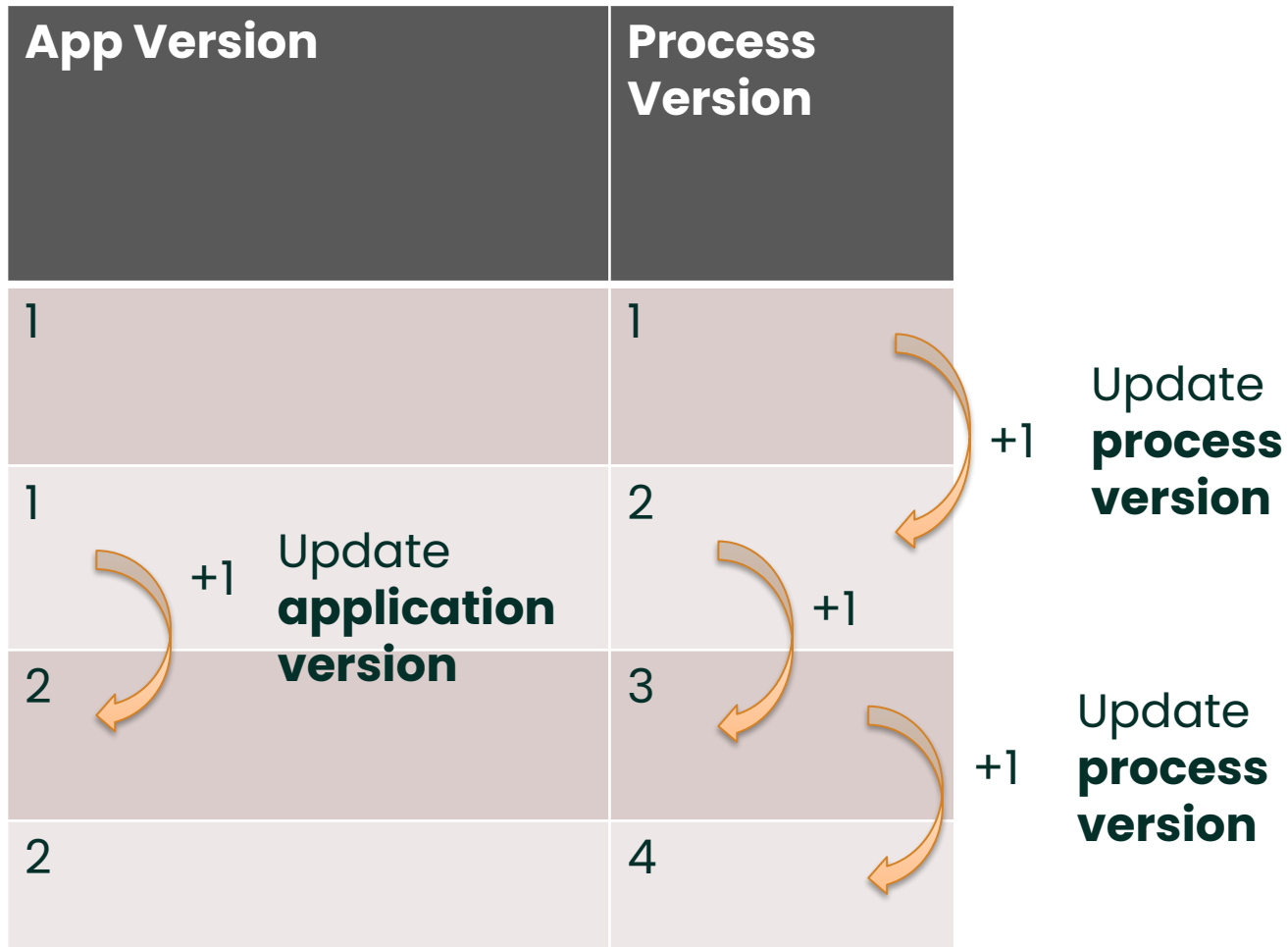
Process Version

- There may be multiple process versions tagged to one Application version.
- However, there can be only one active Process Version (the latest) in an Application version at any point of time.
- It is NOT possible to rollback to earlier process version in the same application version.

Version Control

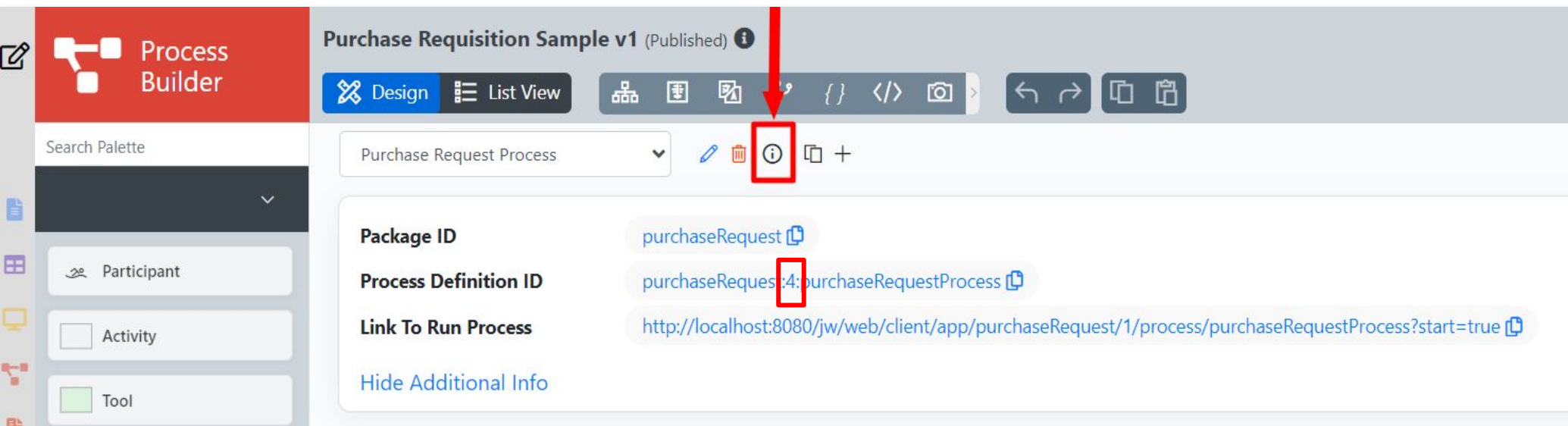
Action / Components	Update Process Version	Update Application Version
Process	✓	✓
Form		✓
List		✓
UI		✓
Application Settings		✓

Version Control



How to Update Process Version?

- Click on "Show Additional Info" link to reveal the **Process Definition ID**. You can find the process version highlighted

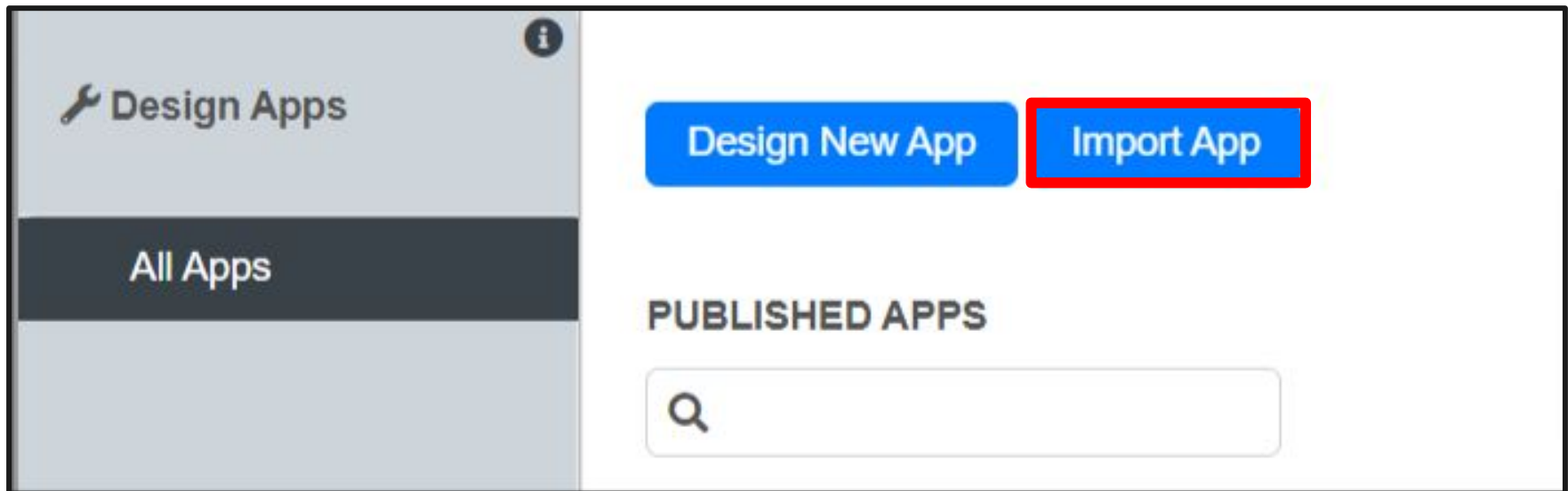


The screenshot displays the Joget Process Builder interface for a process named "Purchase Requisition Sample v1 (Published)". The interface includes a left sidebar with a "Search Palette" and a "Process Builder" header. The main workspace shows the process details, including the "Package ID" (purchaseRequest), the "Process Definition ID" (purchaseRequest:4:purchaseRequestProcess), and the "Link To Run Process" (http://localhost:8080/jw/web/client/app/purchaseRequest/1/process/purchaseRequestProcess?start=true). A red arrow points to the "Show Additional Info" icon (an 'i' in a circle) in the top toolbar, which is also highlighted with a red box. The "Process Definition ID" is also highlighted with a red box.

Field	Value
Package ID	purchaseRequest
Process Definition ID	purchaseRequest:4:purchaseRequestProcess
Link To Run Process	http://localhost:8080/jw/web/client/app/purchaseRequest/1/process/purchaseRequestProcess?start=true

How to Update Process Version?

- By updating App version – Upon import of App (of the same App ID)



(This will increase App Version too, more on this later)

Migration of Process Instances

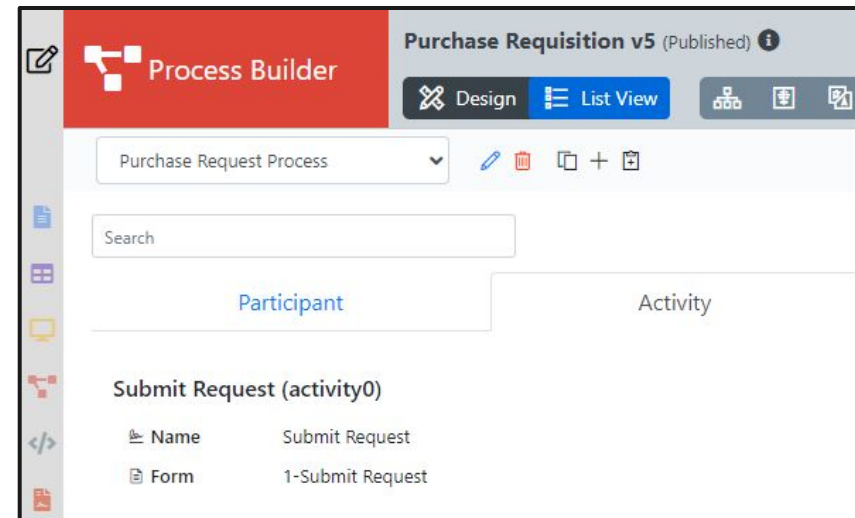
- On the event of process update, process instances that are still running on the current process version will be migrated/updated to the latest process version (in the same app version only).

Migration of Process Instances – Missing Activity

- If there's NO matching activity(ies) that can be matched, Joget will **NOT migrate the process instance** and *it get aborted*.
- Important Notes as opposed to Joget Workflow v6:
 - Staying in its original process instance is a new behavior in Joget DX. In Joget Workflow v6, the original process instance will be aborted, and a new process instance will be created, resuming where it was last left off.
 - As it stays in its original instance, SLA and relevant attribute data are kept intact, instead of getting resetted.
- More reading at:
<http://dev.joget.org/community/display/DX8/Update+Existing+Running+Process+Instances+to+the+Newer+Process+Flow+After+Process+Changes>

Important Note

- The newly created activity instances **will continue to function as if nothing has changed** and should be transparent to the end users.
- Resumed activities will continue to use previously mapped forms.

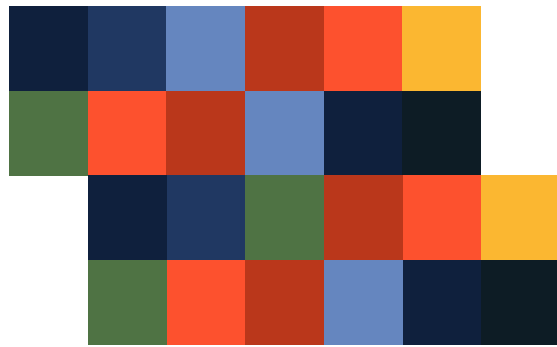


Important Note

- If there's new activity(ies)/tool(s) being added to the new process design. One shall need to configure the mapping(s) accordingly.

Chapter Review

- Understand on how Process Version works.
- Understand its implications on existing running process instances.



Chapter 3

Application Version Control

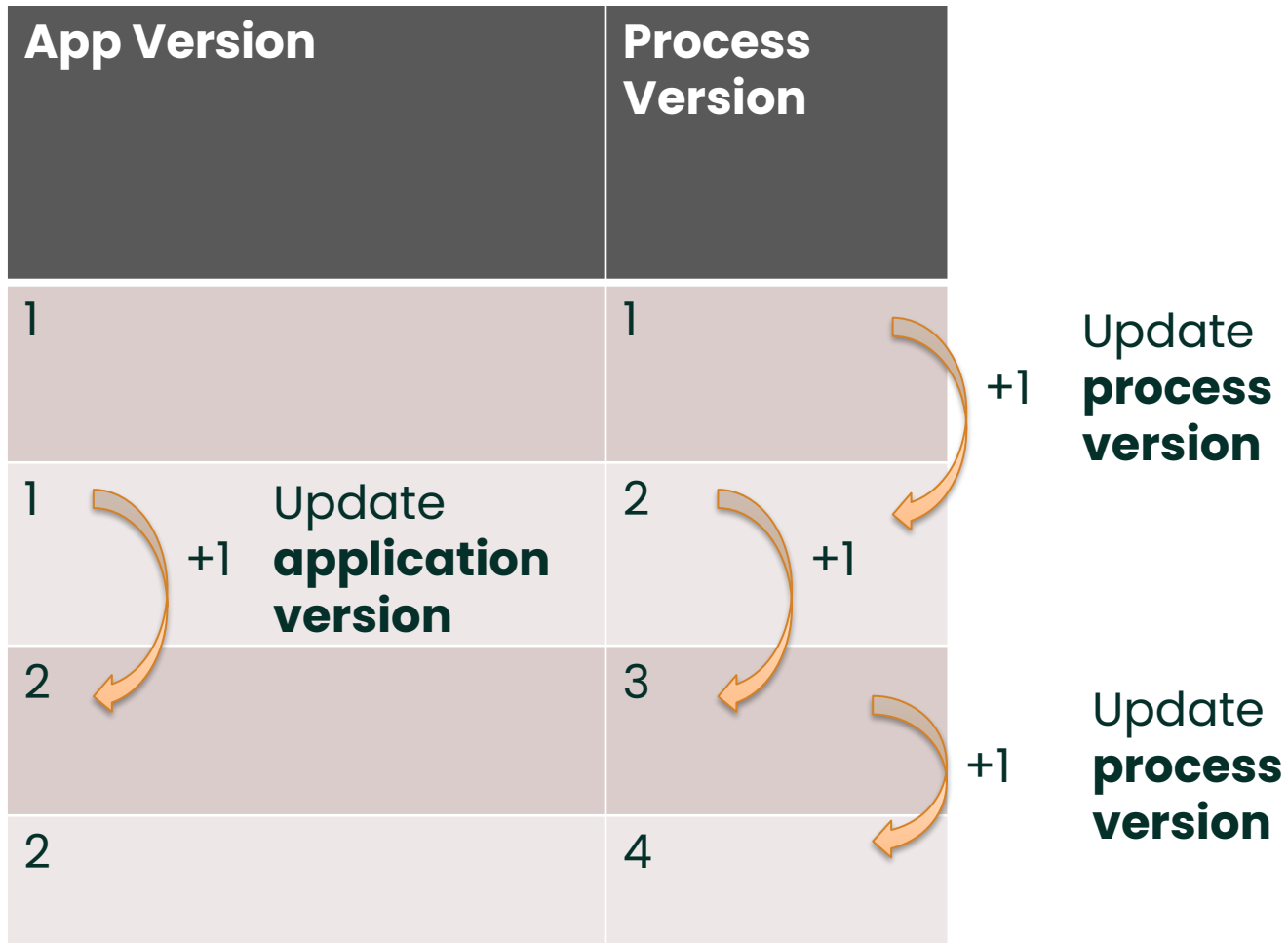
Application Version

- Application version consists of the following:-
 - Processes
 - Forms
 - Lists
 - UIs
- Each Application version would contain only one Process version (the latest) at any point of time.

Version Control

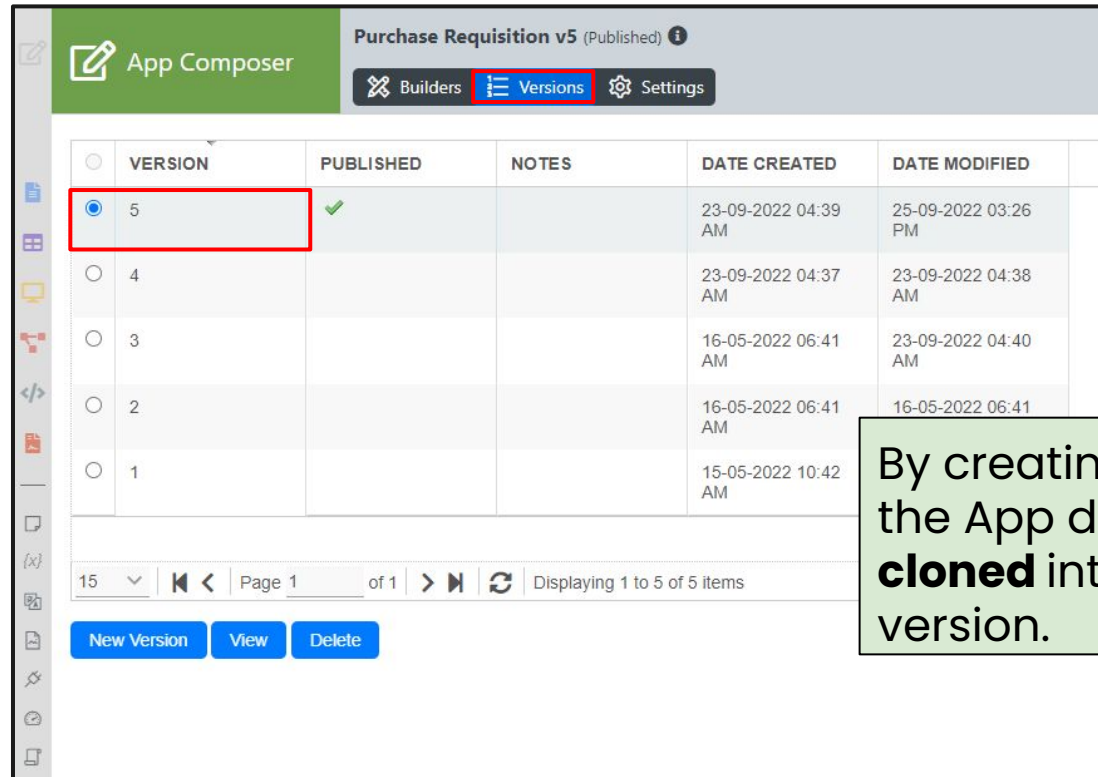
Action / Components	Update Process Version	Update Application Version
Process	✓	✓
Form		✓
List		✓
UI		✓
Application Settings		✓

Version Control



How To Update Application Version?

1. App Composer > Versions > Select version > New Version



Purchase Requisition v5 (Published) ⓘ

Builders Versions Settings

VERSION	PUBLISHED	NOTES	DATE CREATED	DATE MODIFIED
<input checked="" type="radio"/> 5	✓		23-09-2022 04:39 AM	25-09-2022 03:26 PM
<input type="radio"/> 4			23-09-2022 04:37 AM	23-09-2022 04:38 AM
<input type="radio"/> 3			16-05-2022 06:41 AM	23-09-2022 04:40 AM
<input type="radio"/> 2			16-05-2022 06:41 AM	16-05-2022 06:41
<input type="radio"/> 1			15-05-2022 10:42 AM	

15 Page 1 of 1 Displaying 1 to 5 of 5 items

New Version View Delete

By creating a **New Version**, the App design will be **cloned** into the new version.

Online Reference:

<https://dev.joget.org/community/display/DX8/App+Versioning+and+Publishing>

How To Update Application Version?

2. Import App

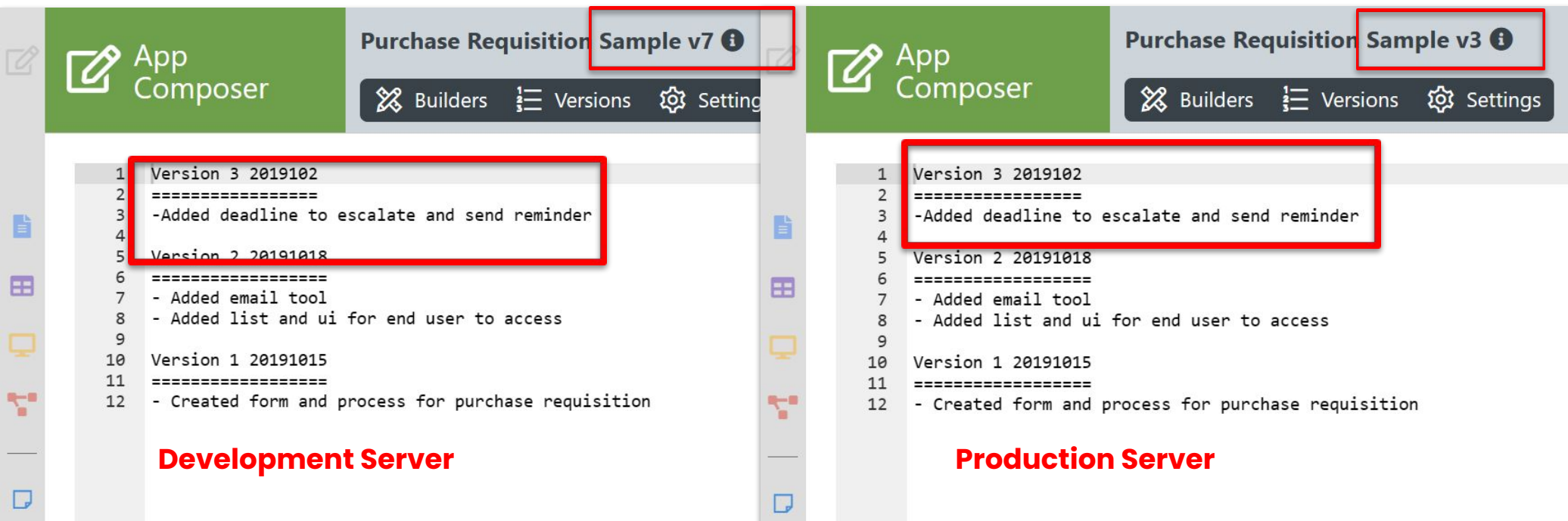
- By importing the app into a Joget server, the Application Version will **increase by 1** over the existing version already in the server.

What does this means?

When you are dealing with the same app across different Joget servers, you may end up with different app version in each server but with exact same app design.

App Version Across Different Servers

- When you are dealing with the same app across different Joget servers, you may end up with different app version in each server but with exact same app design.

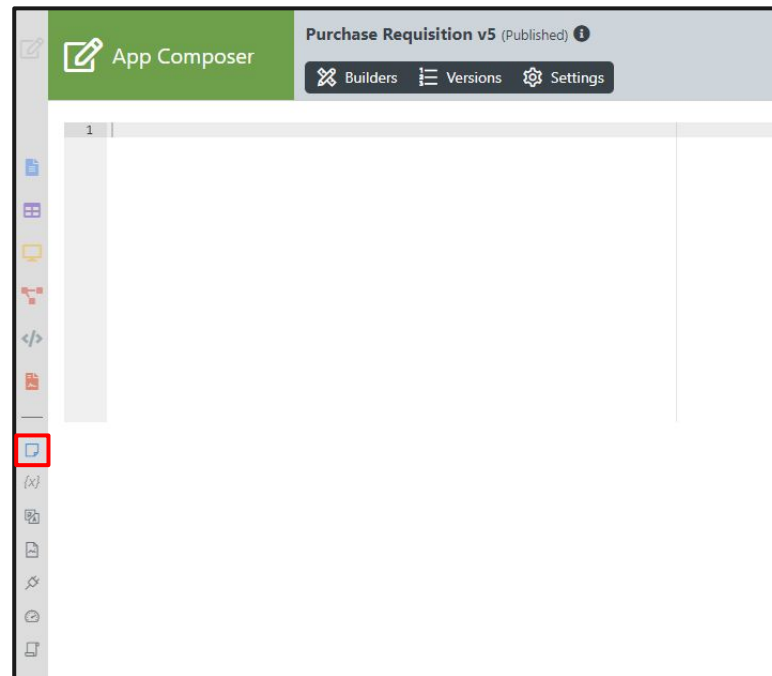


The image shows two side-by-side screenshots of the Joget App Composer interface. Both screenshots show the 'Purchase Requisition' app with three versions listed. The left screenshot is labeled 'Development Server' and the right is labeled 'Production Server'. In both, the 'Sample v7' (Development) and 'Sample v3' (Production) versions are highlighted with red boxes. The version details are as follows:

Server	Version	Date	Changes
Development Server	Version 3	2019102	-Added deadline to escalate and send reminder
	Version 2	20191018	- Added email tool - Added list and ui for end user to access
	Version 1	20191015	- Created form and process for purchase requisition
Production Server	Version 3	2019102	-Added deadline to escalate and send reminder
	Version 2	20191018	- Added email tool - Added list and ui for end user to access
	Version 1	20191015	- Created form and process for purchase requisition


Keeping Track of App Design Across Different Servers


- With the nature of increment of the last app version when an app is imported in, it is imperative to keep track of the “real” app version (app design).
- Make use of **Notes** in the App Composer.






Application Published state

- With more than 1 version available for the same Application in a Joget server, it is now possible to toggle between versions.



 App Composer

Purchase Requisition v5 (Published) 


 Builders
  Versions
  Settings

	VERSION	PUBLISHED	NOTES	DATE CREATED	DATE MODIFIED
<input type="radio"/>	5	✓		23-09-2022 04:39 AM	25-09-2022 03:26 PM
<input type="radio"/>	4			23-09-2022 04:37 AM	23-09-2022 04:38 AM
<input type="radio"/>	3			16-05-2022 06:41 AM	23-09-2022 04:40 AM
<input type="radio"/>	2			16-05-2022 06:41 AM	16-05-2022 06:41 AM
<input type="radio"/>	1			15-05-2022 10:42 AM	23-09-2022 04:41 AM

15

Page 1 of 1



Displaying 1 to 5 of 5 items

New Version

View

Delete

Published Application Version

- New process instances created will be based on the Published version.
- All elements accessed by end users will also be based on the Published version except for:–
 - For Process Instances created under different Application version, users will continue to use the Forms tied to the specific Application version for its assignments.

Important Note

- By increasing the Application Version, the Process Version will be increased as well.

Exercise on Version Control

1. Create a new Joget Application with a **Process, Form and UI**. (That's v1)
2. Run the Application, create a new process Instance.
3. Update the Process Design and observe the changes.
4. Increase the Application Version by creating a new version. (From v1 to v2)
5. Modify the Process and Form (in v2), create new process instance and observe the changes.
6. Compare the old and new process instances.

Exercise on Version Control

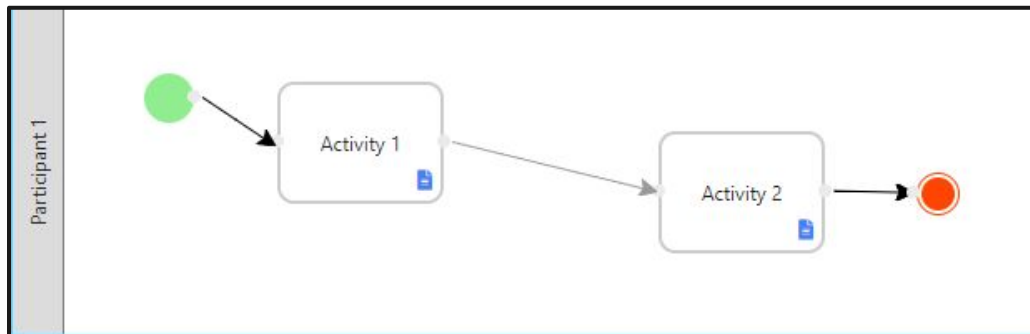
1. **Create a new Joget Application with a Process, Form and UI. (That's v1)**
2. Run the Application, create a new process Instance.
3. Update the Process Design and observe the changes.
4. Increase the Application Version by creating a new version. (From v1 to v2)
5. Modify the Process and Form (in v2), create new process instance and observe the changes.
6. Compare the old and new process instances.

Exercise on Version Control

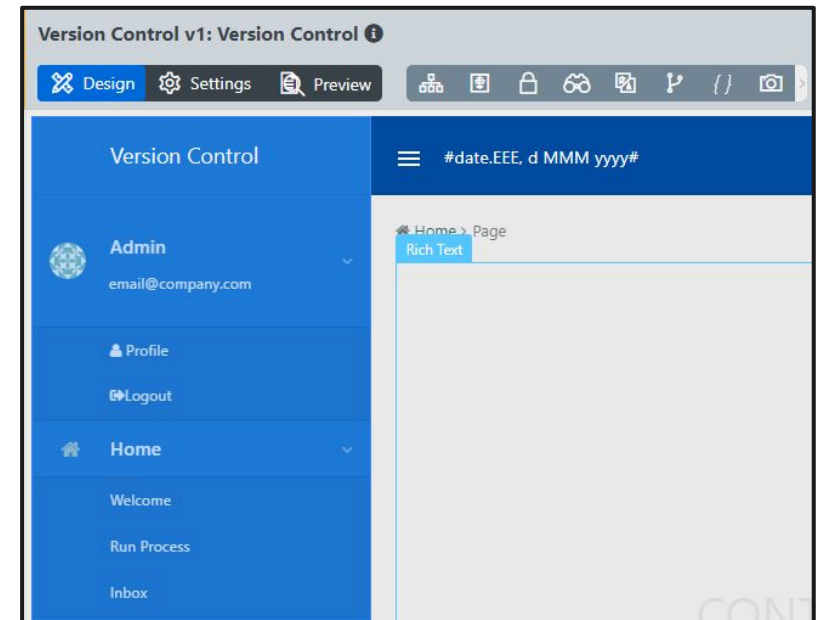
1. Create a new Joget Application with a **Process, Form and UI**. (That's v1)

Example:

A process flow with 2 activities with both of them mapped to the same form that contains 2 text fields.



Sample	
Title	<input type="text"/>
Description	<input type="text"/>

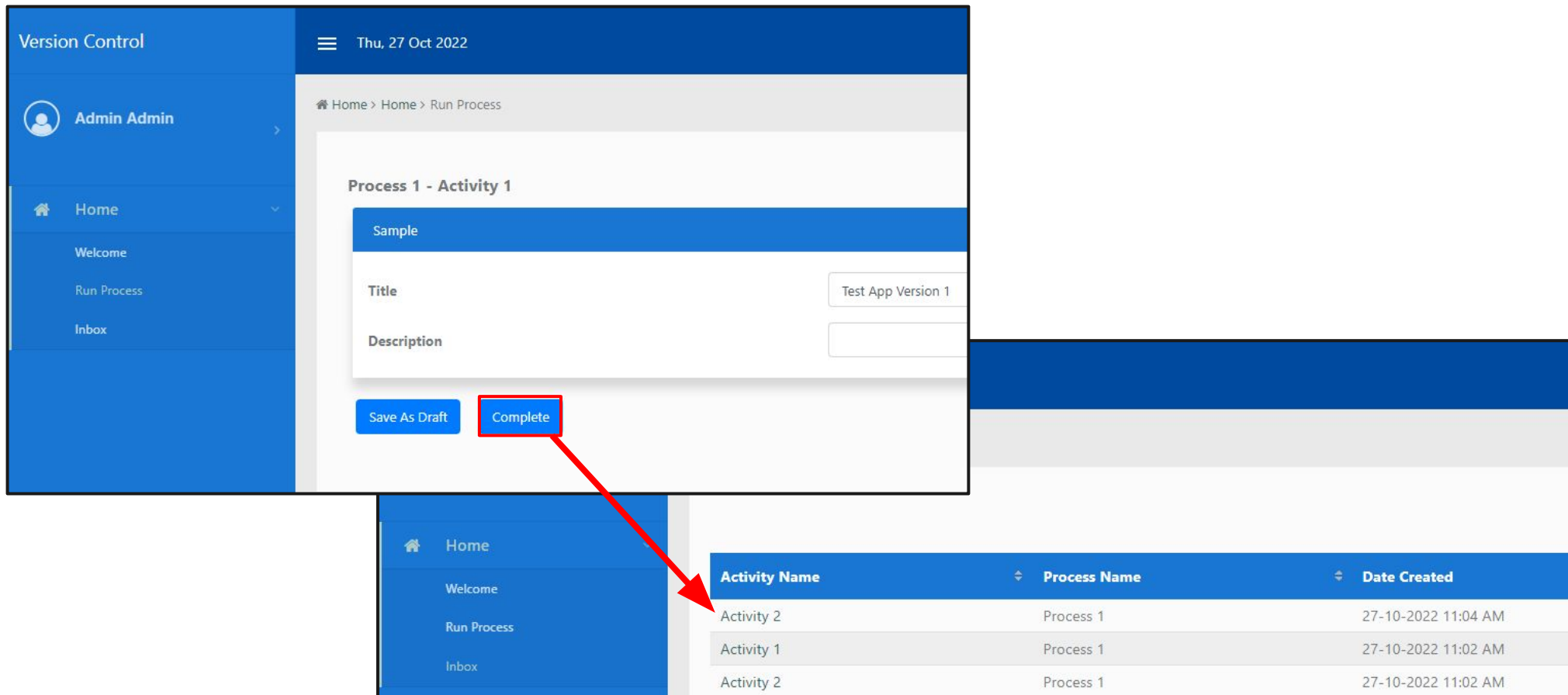


Exercise on Version Control

1. Create a new Joget Application with a **Process, Form and UI**. (That's v1)
- 2. Run the Application, create a new process Instance.**
3. Update the Process Design and observe the changes.
4. Increase the Application Version by creating a new version. (From v1 to v2)
5. Modify the Process and Form (in v2), create new process instance and observe the changes.
6. Compare the old and new process instances.

Exercise on Version Control

2. Run the Application, create a new process Instance.



The screenshot displays the Joget Version Control interface. The left sidebar shows the user 'Admin Admin' and navigation options: Home, Welcome, Run Process, and Inbox. The main content area shows the 'Run Process' form for 'Process 1 - Activity 1'. The form includes a 'Sample' section, a 'Title' field with the value 'Test App Version 1', and a 'Description' field. Below the form are two buttons: 'Save As Draft' and 'Complete'. A red box highlights the 'Complete' button, with a red arrow pointing to the 'Run Process' option in the sidebar. Below the sidebar, a table lists the process instances.

Activity Name	Process Name	Date Created
Activity 2	Process 1	27-10-2022 11:04 AM
Activity 1	Process 1	27-10-2022 11:02 AM
Activity 2	Process 1	27-10-2022 11:02 AM

Exercise on Version Control

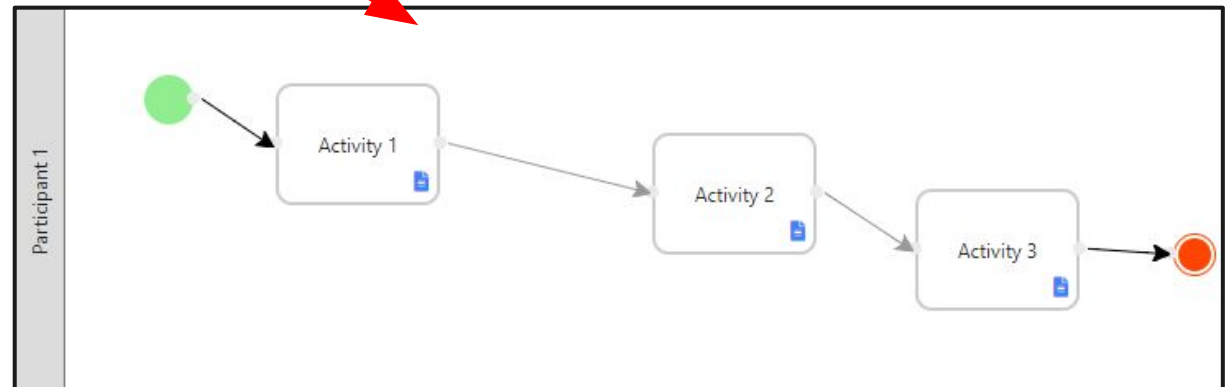
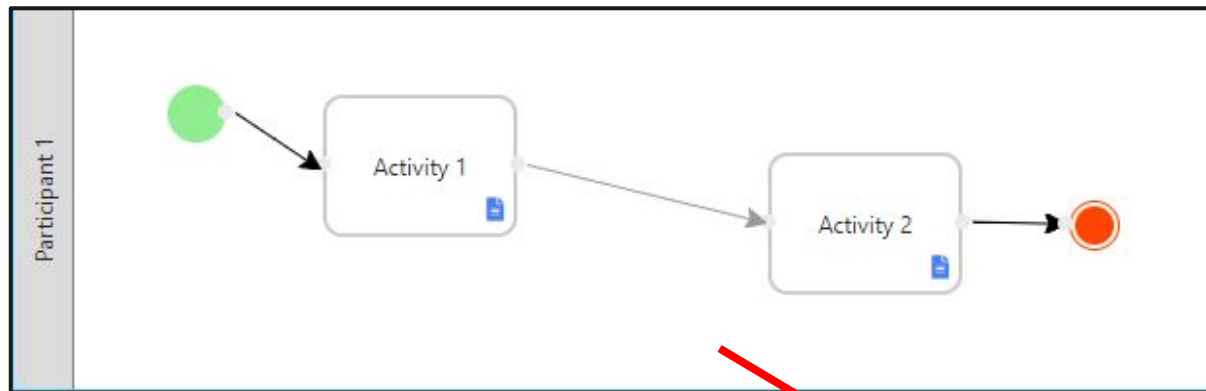
2. Run the Application, create a new process Instance.
 - Observe that on the completion of Activity 1, it will flow to Activity 2.
 - On completion of Activity 2, the process instance comes to an end.
 - Create another process instance and have the it pending at Activity 2 to proceed to the next step.

Exercise on Version Control

1. Create a new Joget Application with a **Process, Form and UI**. (That's v1)
2. Run the Application, create a new process Instance.
- 3. Update the Process Design and observe the changes.**
4. Increase the Application Version by creating a new version. (From v1 to v2)
5. Modify the Process and Form (in v2), create new process instance and observe the changes.
6. Compare the old and new process instances.

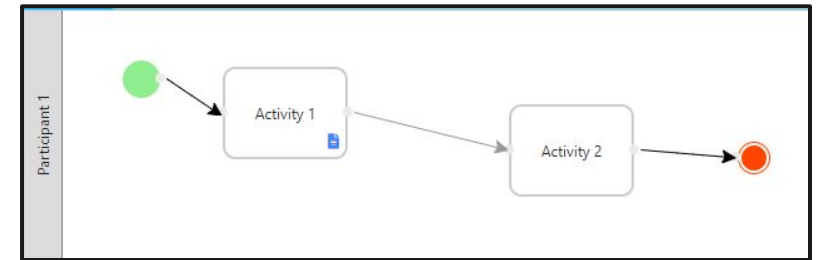
Exercise on Version Control

3. Update the Process Design and observe the changes.



Exercise on Version Control

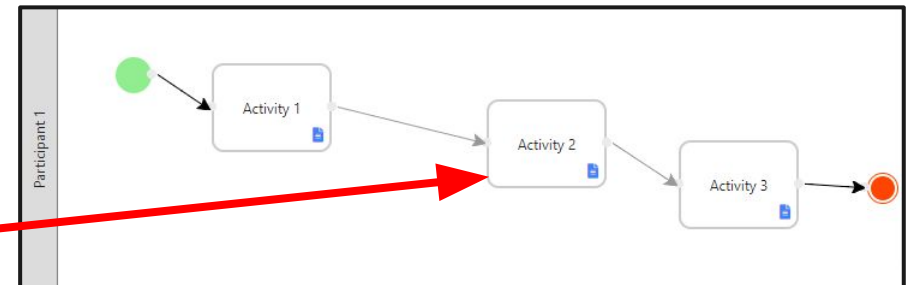
3. Update the Process Design and observe the changes.
 - Observe that we have process instance that is started before the process design change.



- On completion of Activity 2, what will happen?

Process 1 - Activity 2

Sample	
Title	Test App Version 1
Description	
<div>Save As Draft Complete Cancel</div>	



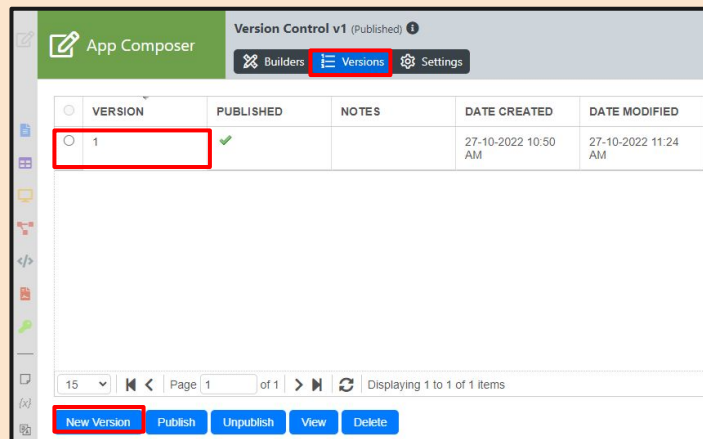
Exercise on Version Control

1. Create a new Joget Application with a **Process, Form and UI**. (That's v1)
2. Run the Application, create a new process Instance.
3. Update the Process Design and observe the changes.
- 4. Increase the Application Version by creating a new version. (From v1 to v2)**
5. Modify the Process and Form (in v2), create new process instance and observe the changes.
6. Compare the old and new process instances.

Exercise on Version Control

4. Increase the Application Version by creating a new version. (From v1 to v2)
 - Observe that at this point of time, App Version 1 and App Version 2 are identical.
 - Switch the published version from 1 to 2.

RECAP: App Composer > Versions > Select version > New Version



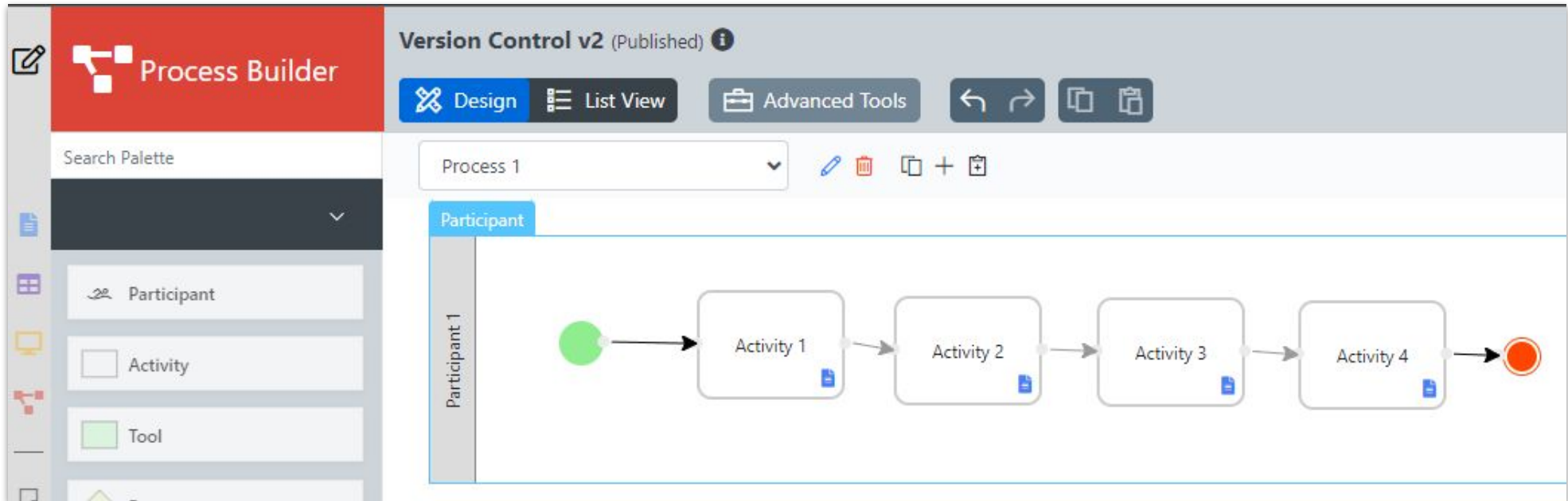
By creating a **New Version**, the App design will be **cloned** into the new version.

Exercise on Version Control

1. Create a new Joget Application with a **Process, Form and UI**. (That's v1)
2. Run the Application, create a new process Instance.
3. Update the Process Design and observe the changes.
4. Increase the Application Version by creating a new version. (From v1 to v2)
5. **Modify the Process and Form (in v2), create new process instance and observe the changes.**
6. Compare the old and new process instances.

Exercise on Version Control

5. Modify the Process and Form (in v2), create new process instance and observe the changes.
 - Add new text field to the form.
 - Add new activity to the process.



Exercise on Version Control

1. Create a new Joget Application with a **Process, Form and UI**. (That's v1)
2. Run the Application, create a new process Instance.
3. Update the Process Design and observe the changes.
4. Increase the Application Version by creating a new version. (From v1 to v2)
5. Modify the Process and Form (in v2), create new process instance and observe the changes.
- 6. Compare the old and new process instances.**

Exercise on Version Control

6. Compare the old and new process instances.
 - Will process instances started on **App Version 2** flow to **Activity 4**?
 - Will process instances started on **App Version 1** flow to **Activity 4**?
 - Which process instance is showing the new form design, why and why not?

Exercise on Version Control

1. Create a new Joget Application with a **Process, Form and UI**. (That's v1)
2. Run the Application, create a new process Instance.
3. Update the Process Design and observe the changes.
4. Increase the Application Version by creating a new version. (From v1 to v2)
5. Modify the Process and Form (in v2), create new process instance and observe the changes.
6. Compare the old and new process instances.

Lessons Learnt From The Exercise

- Changing process design of App Version 2 did NOT affect running instance of App Version 1.
- Each App Version would only contain the one (and latest) process design.
- Running instances of App Version 1 will show Forms of App Version 1, likewise, for Version 2, regardless of current Published App Version.
- Forms will be shown based on Published App Version except for those tied to running instances.

Chapter Review

- Understand how to manage Application Version and its impact.

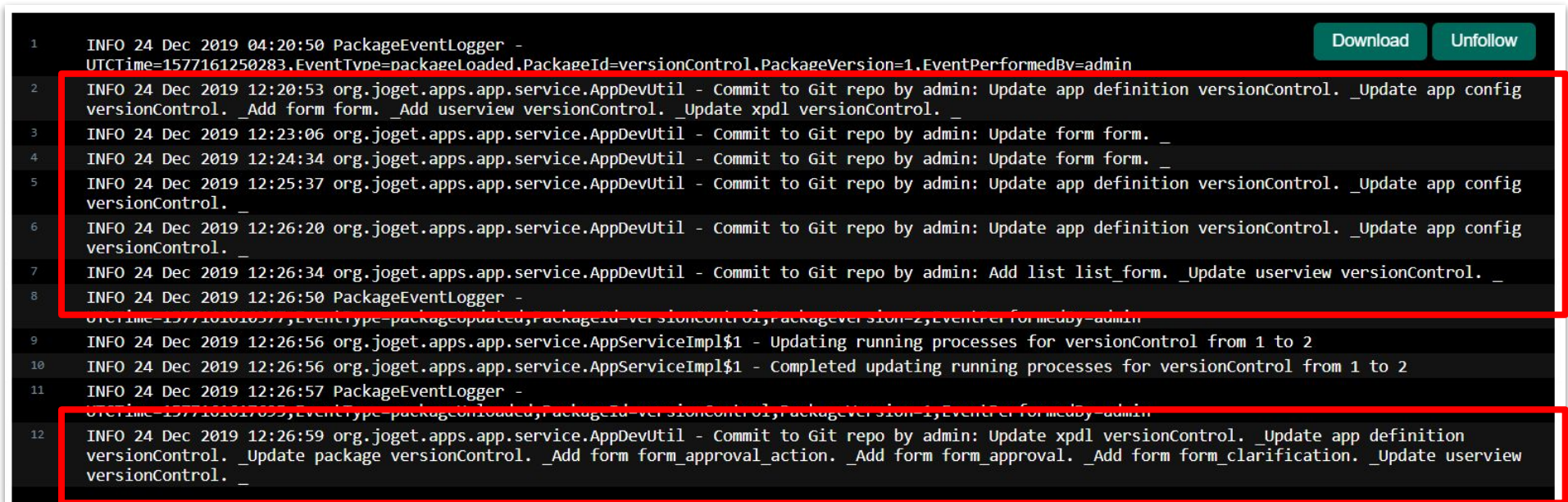


Chapter 4

Git Version Control

Built-in Git

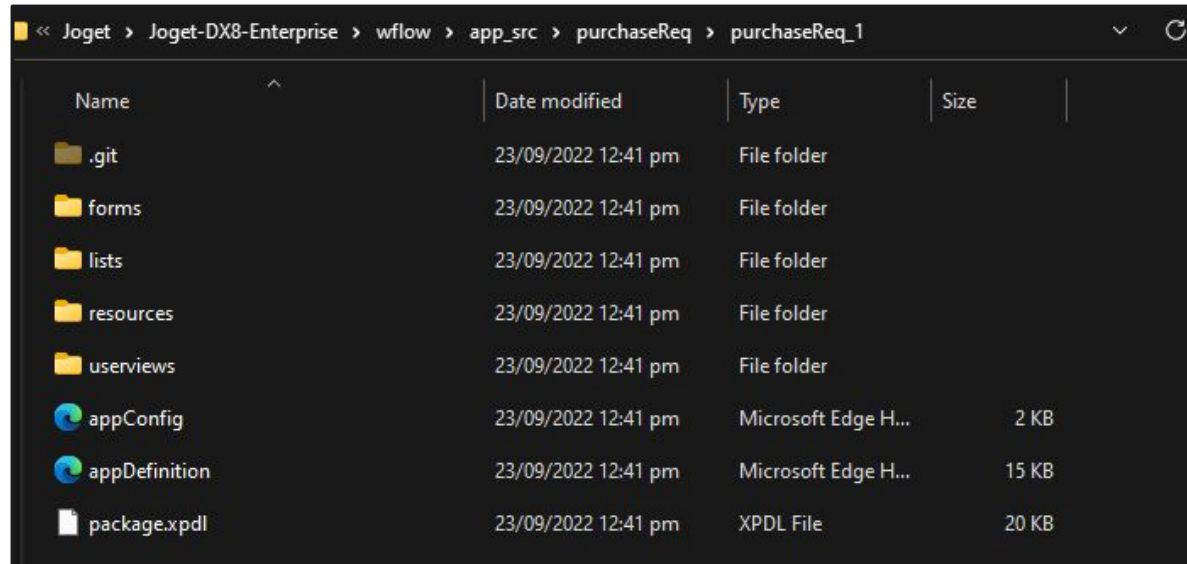
- Any changes within the app will be committed into Git



```
1 INFO 24 Dec 2019 04:20:50 PackageEventLogger -  
   UTCTime=1577161250283,EventType=packageLoaded,PackageId=versionControl,PackageVersion=1,EventPerformedBy=admin  
2 INFO 24 Dec 2019 12:20:53 org.joget.apps.app.service.AppDevUtil - Commit to Git repo by admin: Update app definition versionControl. _Update app config  
   versionControl. _Add form form. _Add userview versionControl. _Update xpd versionControl. _  
3 INFO 24 Dec 2019 12:23:06 org.joget.apps.app.service.AppDevUtil - Commit to Git repo by admin: Update form form. _  
4 INFO 24 Dec 2019 12:24:34 org.joget.apps.app.service.AppDevUtil - Commit to Git repo by admin: Update form form. _  
5 INFO 24 Dec 2019 12:25:37 org.joget.apps.app.service.AppDevUtil - Commit to Git repo by admin: Update app definition versionControl. _Update app config  
   versionControl. _  
6 INFO 24 Dec 2019 12:26:20 org.joget.apps.app.service.AppDevUtil - Commit to Git repo by admin: Update app definition versionControl. _Update app config  
   versionControl. _  
7 INFO 24 Dec 2019 12:26:34 org.joget.apps.app.service.AppDevUtil - Commit to Git repo by admin: Add list list_form. _Update userview versionControl. _  
8 INFO 24 Dec 2019 12:26:50 PackageEventLogger -  
   UTCTime=157716170577,EventType=packageUpdated,PackageId=versionControl,PackageVersion=2,EventPerformedBy=admin  
9 INFO 24 Dec 2019 12:26:56 org.joget.apps.app.service.AppServiceImpl$1 - Updating running processes for versionControl from 1 to 2  
10 INFO 24 Dec 2019 12:26:56 org.joget.apps.app.service.AppServiceImpl$1 - Completed updating running processes for versionControl from 1 to 2  
11 INFO 24 Dec 2019 12:26:57 PackageEventLogger -  
   UTCTime=157716170599,EventType=packageLoaded,PackageId=versionControl,PackageVersion=1,EventPerformedBy=admin  
12 INFO 24 Dec 2019 12:26:59 org.joget.apps.app.service.AppDevUtil - Commit to Git repo by admin: Update xpd versionControl. _Update app definition  
   versionControl. _Update package versionControl. _Add form form_approval_action. _Add form form_approval. _Add form form_clarification. _Update userview  
   versionControl. _
```

How To Access the Built-In Git?

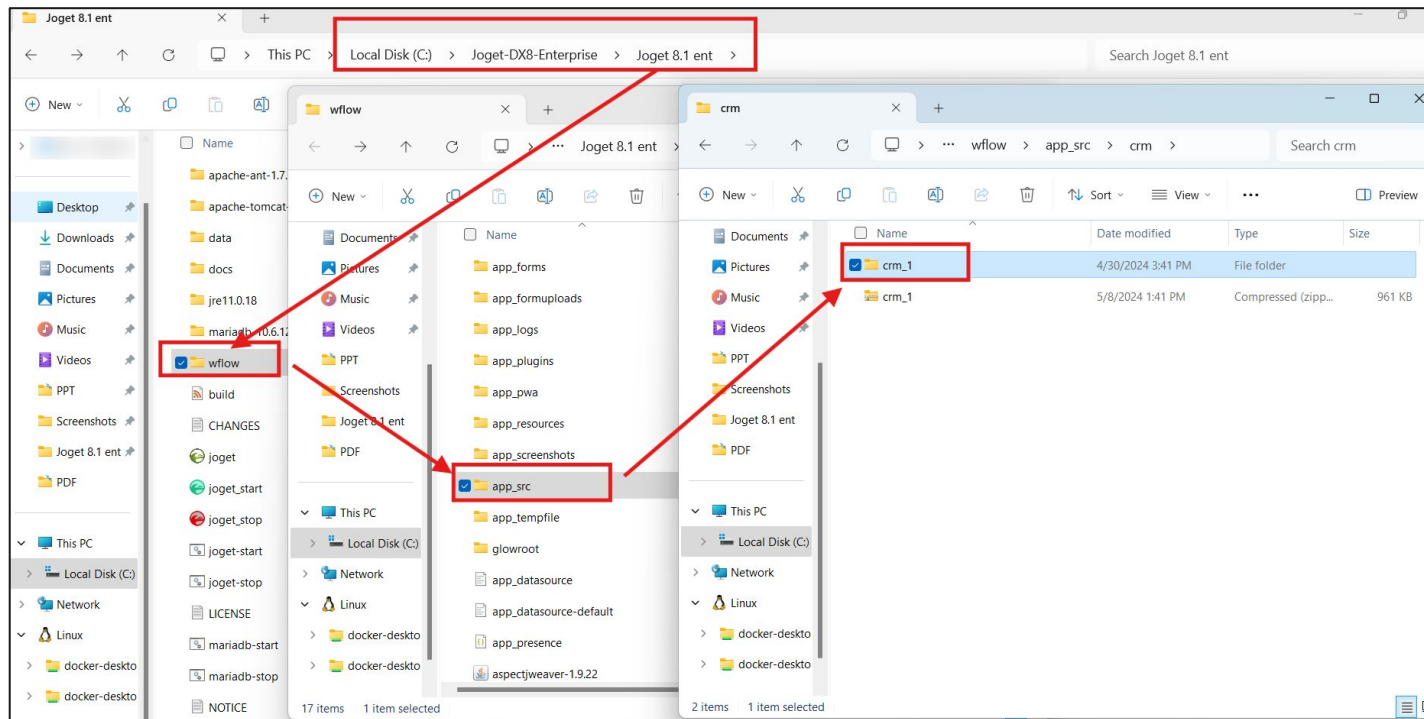
- To access into the built-in Git, the local repository is in **«Joget installation folder» \wflow \app_src \«App ID» \«App ID_version number»**



Name	Date modified	Type	Size
.git	23/09/2022 12:41 pm	File folder	
forms	23/09/2022 12:41 pm	File folder	
lists	23/09/2022 12:41 pm	File folder	
resources	23/09/2022 12:41 pm	File folder	
userviews	23/09/2022 12:41 pm	File folder	
appConfig	23/09/2022 12:41 pm	Microsoft Edge H...	2 KB
appDefinition	23/09/2022 12:41 pm	Microsoft Edge H...	15 KB
package.xpdl	23/09/2022 12:41 pm	XPDL File	20 KB

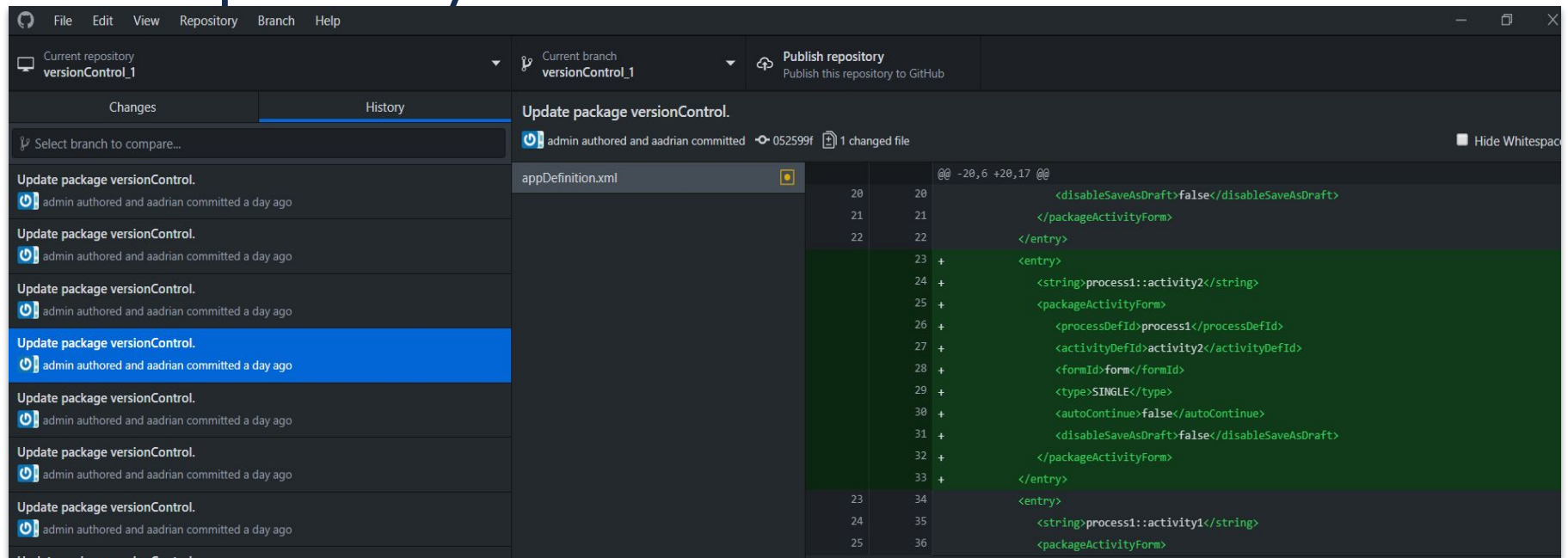
Import App from Zipped app_src Files

- <App ID_version number> in **app_src** file can be zipped and imported
- Zip one of the app's version folder eg: **crm_1**
- Import the zip file.
- Once imported, **Application Version will increase by 1.**



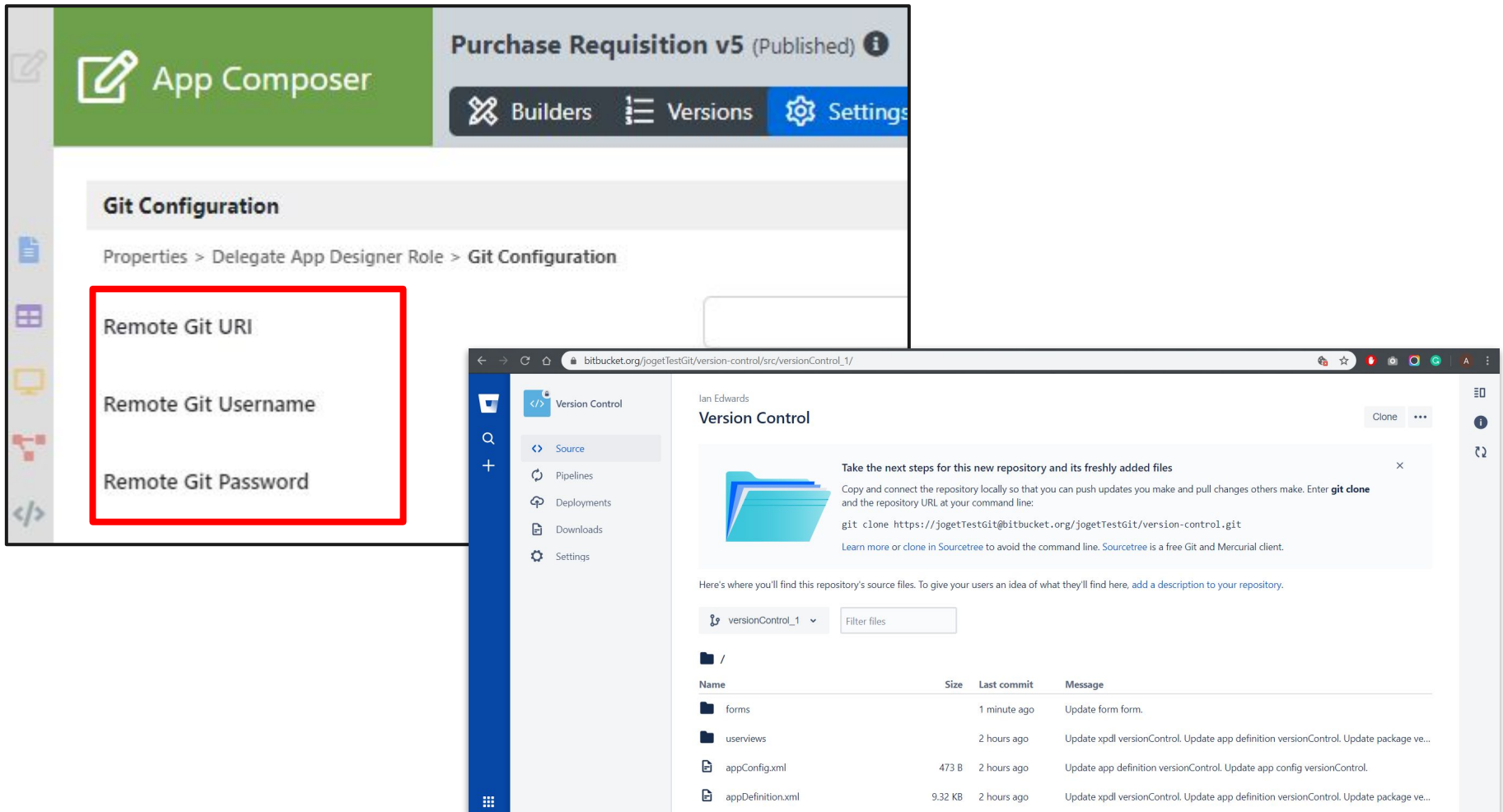
How To Access the Built-In Git?

- Sample of using GitHub Desktop to access the Git Repository



Remote Git

- You can also integrate to external Git



The image shows two overlapping screenshots. The top screenshot is the 'Git Configuration' page in Joget App Composer, with a red box highlighting the 'Remote Git URI', 'Remote Git Username', and 'Remote Git Password' fields. The bottom screenshot is a Bitbucket repository page for 'versionControl_1' by Ian Edwards, showing the repository's source files and a 'git clone' command.

Joget App Composer Git Configuration

Properties > Delegate App Designer Role > Git Configuration

Remote Git URI

Remote Git Username

Remote Git Password

Bitbucket Repository: versionControl_1

Take the next steps for this new repository and its freshly added files

Copy and connect the repository locally so that you can push updates you make and pull changes others make. Enter **git clone** and the repository URL at your command line:

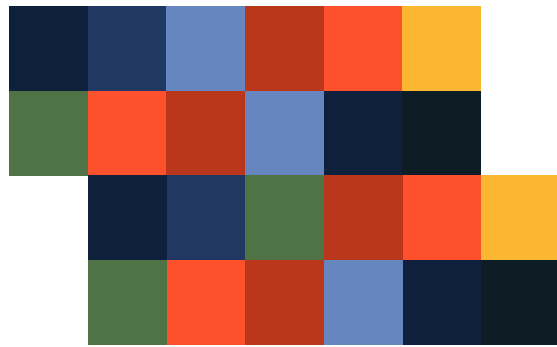
```
git clone https://jogetTestGit@bitbucket.org/jogetTestGit/version-control.git
```

Learn more or clone in Sourcetree to avoid the command line. Sourcetree is a free Git and Mercurial client.

Here's where you'll find this repository's source files. To give your users an idea of what they'll find here, add a description to your repository.

versionControl_1

Name	Size	Last commit	Message
/			
forms		1 minute ago	Update form form.
userviews		2 hours ago	Update xpd versionControl. Update app definition versionControl. Update package ve...
appConfig.xml	473 B	2 hours ago	Update app definition versionControl. Update app config versionControl.
appDefinition.xml	9.32 KB	2 hours ago	Update xpd versionControl. Update app definition versionControl. Update package ve...

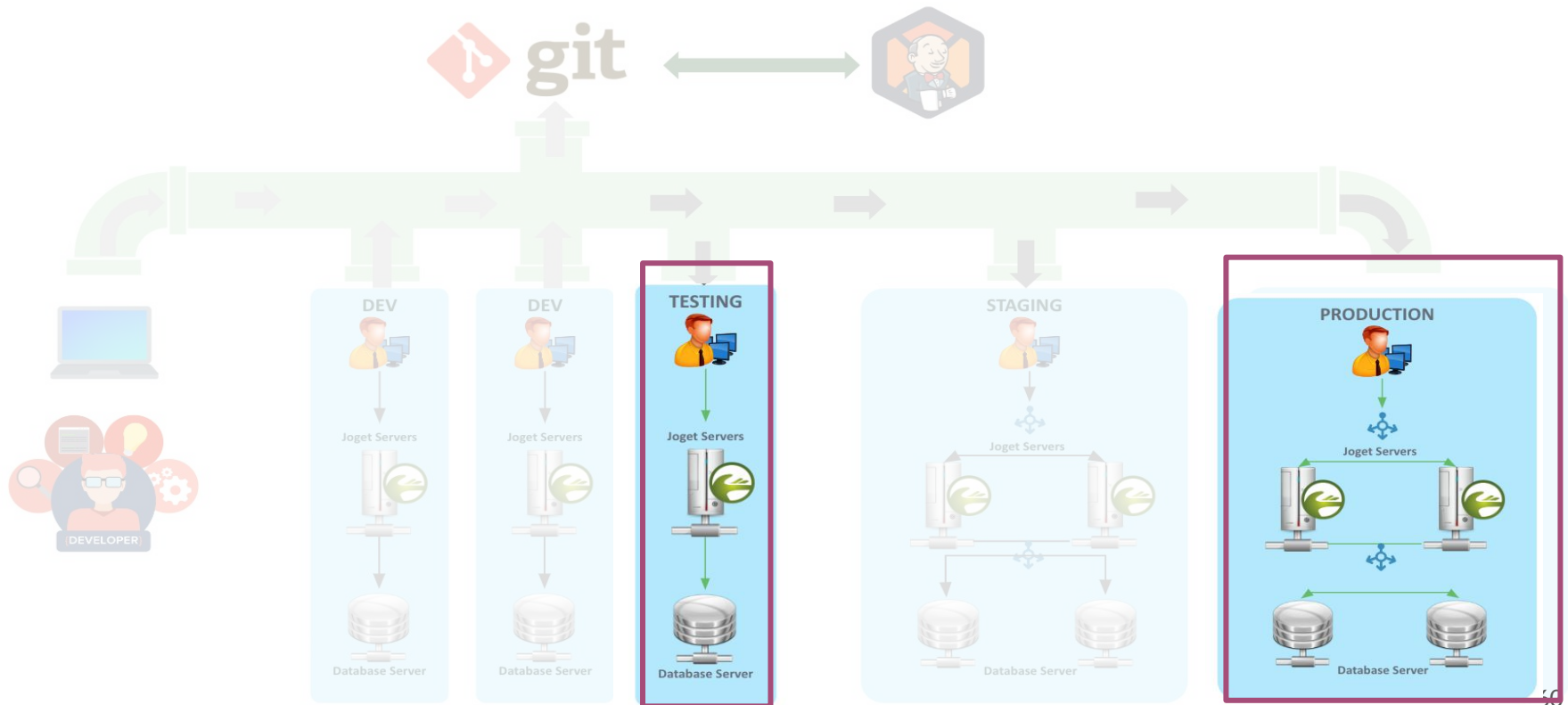


Chapter 5

CI / CD

CI / CD using GIT and Joget

- In this section we will discuss how to manage of a Joget app across 2 different servers.

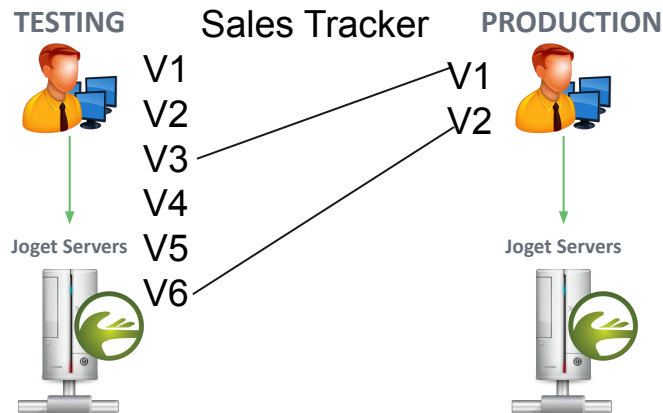


CI / CD using GIT and Joget

In this first scenario, V3 of the app in the Testing server has been exported as V1 in the Production server, and V6 has been exported as V2.

The question here how do we bring changes made in testing V6 to Production V2?

Sales Tracking v6(Published)			
App Composer			
Builders Versions Settings			
VERSION	PUBLISHED	NOTES	
<input checked="" type="radio"/> 6	✓	PRODUCTION V2 TESTING V6	
<input type="radio"/> 5			
<input type="radio"/> 4			
<input type="radio"/> 3		PRODUCTION V1 TESTING V3	
<input type="radio"/> 2			
<input type="radio"/> 1			



Sales Tracking v1			
App Composer			
Builders Versions Settings			
VERSION	PUBLISHED	NOTES	
<input checked="" type="radio"/> 2		PRODUCTION V2 TESTING V6	
<input type="radio"/> 1		PRODUCTION V1 TESTING V3	

CI / CD using GIT and Joget – Option 1

- There are 2 solution to previous question
- The first is by Copying the app from Testing V6 and merge into Production V3.



CI / CD using GIT and Joget – Option 1

- Export Testing V6 and Import as Production V3
- If there is any running processes in Production V2, decision will need to be made whether to MIGRATE to Production V3.

To migrate, execute

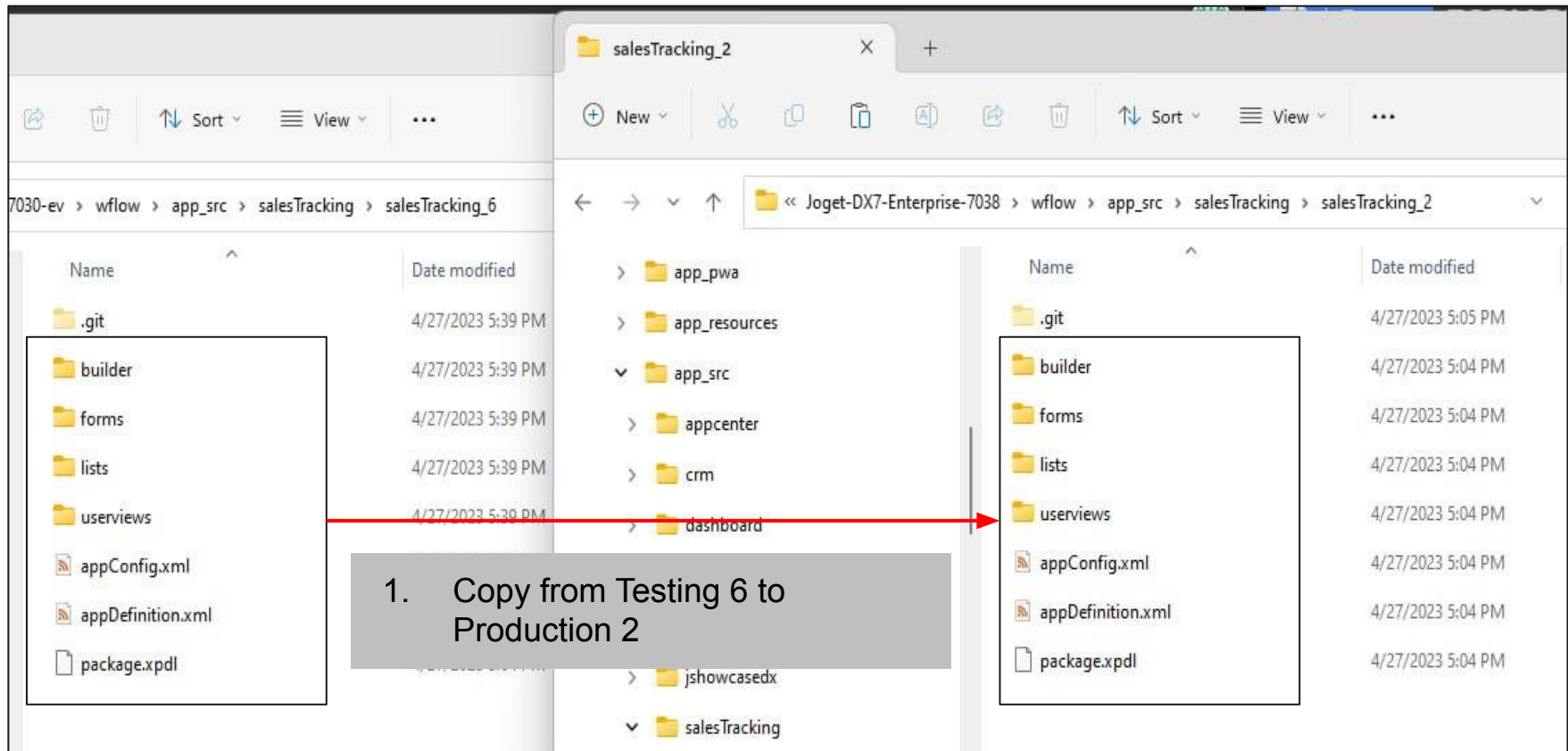
```
AppService.updateRunningProcesses(packageId, oldProcessVersion,  
newProcessVersion);
```

CI / CD using GIT and Joget – Option 2

- In the second solution, start by copying the app from Testing V6 and merge into Production V2.

CI / CD using GIT and Joget – Option 2

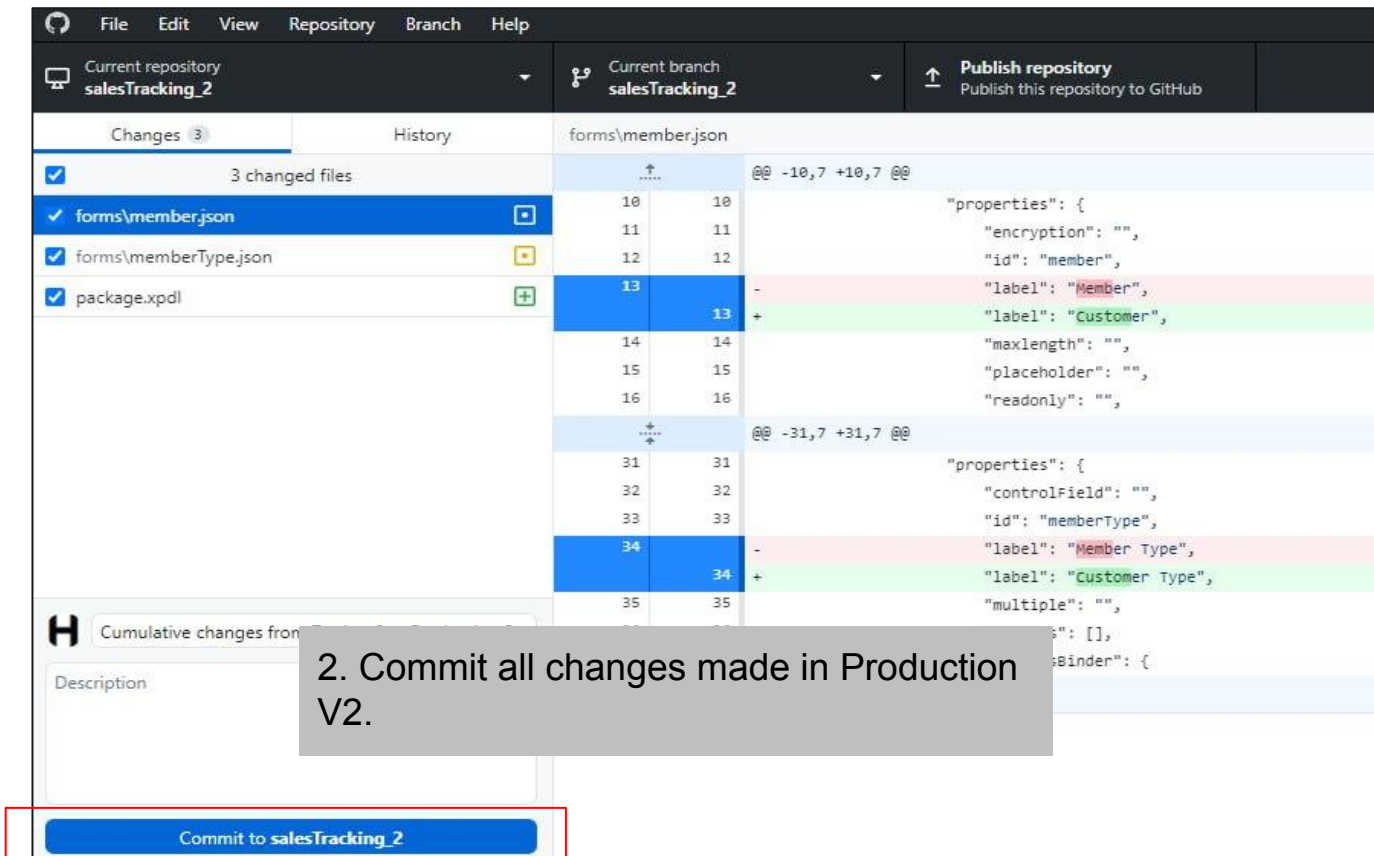
- **Copy** from **Testing V6** and **merge** into **Production V2**.



Note: appConfig.xml contains environment specific settings (dev, test, prod) such as counters, smtp settings that you may want to preserve.

CI / CD using GIT and Joget – Option 2

- **Copy** from **Testing V6** and **merge** into **Production V2**.



File Edit View Repository Branch Help

Current repository: salesTracking_2

Current branch: salesTracking_2

Publish repository: Publish this repository to GitHub

Changes 3 History

3 changed files

- ✓ forms\member.json
- ✓ forms\memberType.json
- ✓ package.xpdl

forms\member.json

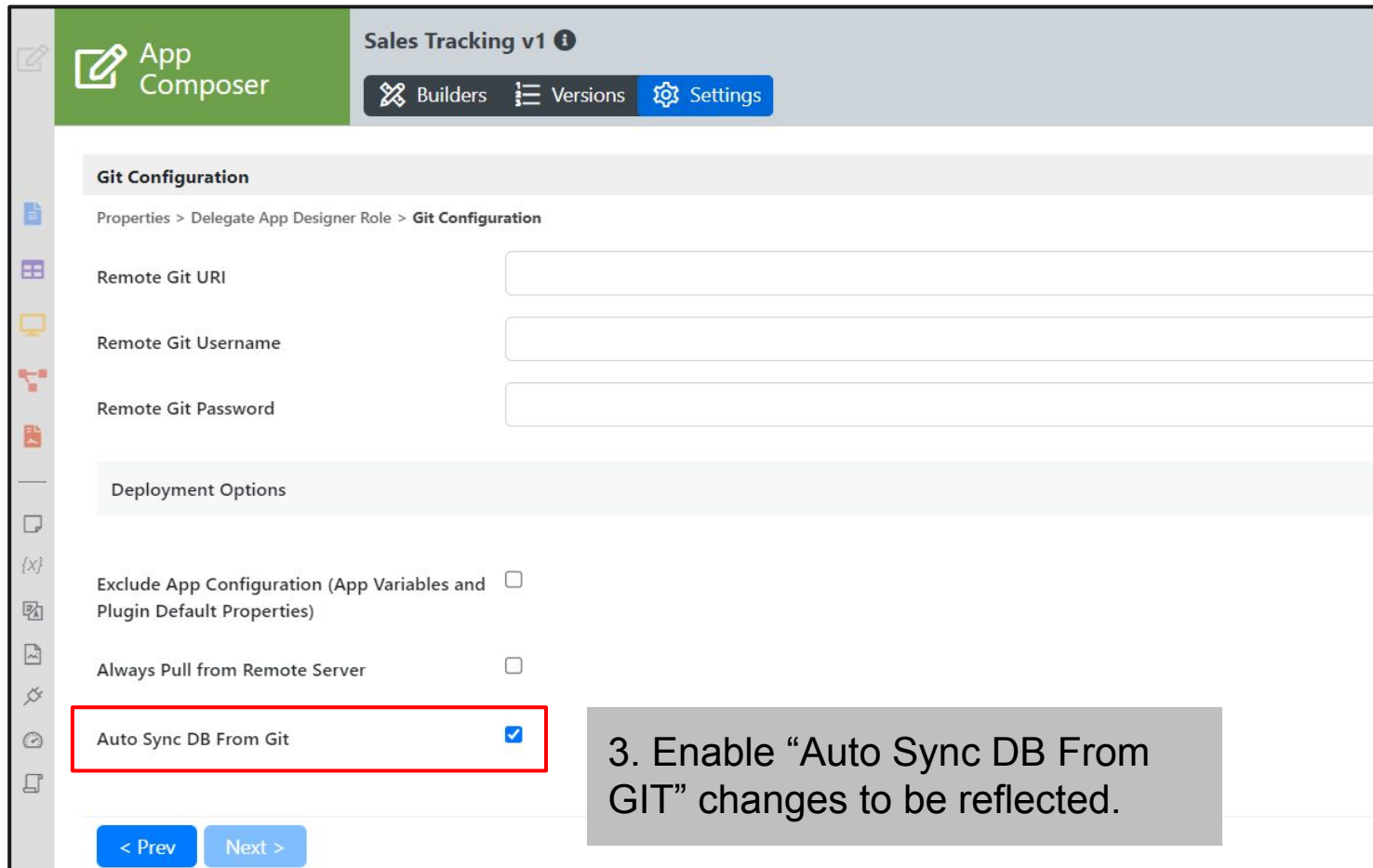
```
@@ -10,7 +10,7 @@
    "properties": {
      "encryption": "",
      "id": "member",
      "label": "Member",
      "maxlength": "",
      "placeholder": "",
      "readonly": ""
    }
  },
  "properties": {
    "controlField": "",
    "id": "memberType",
    "label": "Member Type",
    "maxlength": "",
    "placeholder": "",
    "readonly": ""
  },
  "multiple": "",
  "value": [],
  "valueBinder": {
```

2. Commit all changes made in Production V2.

Commit to salesTracking_2

CI / CD using GIT and Joget – Option 2

- **Copy** from **Testing V6** and **merge** into **Production V2**.



The screenshot shows the 'Git Configuration' settings page in the Joget App Composer. The page title is 'Sales Tracking v1'. The navigation bar includes 'App Composer', 'Builders', 'Versions', and 'Settings'. The left sidebar contains various icons for app management. The main content area is titled 'Git Configuration' and shows the breadcrumb 'Properties > Delegate App Designer Role > Git Configuration'. There are three input fields for 'Remote Git URI', 'Remote Git Username', and 'Remote Git Password'. Below these is a section for 'Deployment Options' with three checkboxes: 'Exclude App Configuration (App Variables and Plugin Default Properties)', 'Always Pull from Remote Server', and 'Auto Sync DB From Git'. The 'Auto Sync DB From Git' checkbox is checked and highlighted with a red rectangle. At the bottom, there are '< Prev' and 'Next >' buttons.

Git Configuration

Properties > Delegate App Designer Role > Git Configuration

Remote Git URI

Remote Git Username

Remote Git Password

Deployment Options

Exclude App Configuration (App Variables and Plugin Default Properties) ☐

Always Pull from Remote Server ☐

Auto Sync DB From Git ☒

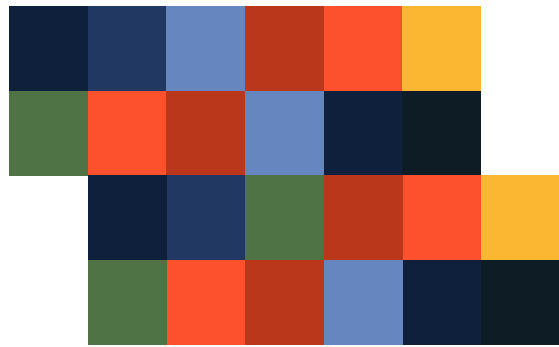
< Prev Next >

3. Enable “Auto Sync DB From GIT” changes to be reflected.

CI / CD using GIT and Joget – Option 2

- **Copy** from **Testing V6** and **merge** into **Production V2**.
- If there is any process design change, any running processes in **Production V2** will be **automatically** migrated to the latest process design.

```
INFO 27 Apr 2023 17:45:07 org.joget.apps.app.service.AppServiceImpl$1 - Updating running processes for salesTracking from 2 to 3
INFO 27 Apr 2023 17:45:07 org.joget.apps.app.service.AppDevUtil - Sync complete for app {id=salesTracking, version=6, published=true}
INFO 27 Apr 2023 17:45:07 org.joget.apps.app.service.AppServiceImpl - Migrating Process Instance ID [12321_salesTracking_process1, 12322_salesTracking_process1] to new process version 3.
INFO 27 Apr 2023 17:45:07 org.joget.apps.app.service.AppServiceImpl$1 - Completed updating running processes for salesTracking from 2 to 3
INFO 27 Apr 2023 17:45:07 org.joget.apps.app.service.AppDevUtil - Commit to Git repo by admin: Update app definition salesTracking. _Update package salesTracking. _
INFO 27 Apr 2023 17:45:08 PackageEventLogger - UTCTime=1682588708323,EventType=packageUnloaded,PackageId=salesTracking,PackageVersion=2,EventPerformedBy=admin
```



Chapter 5

Collaborative Development

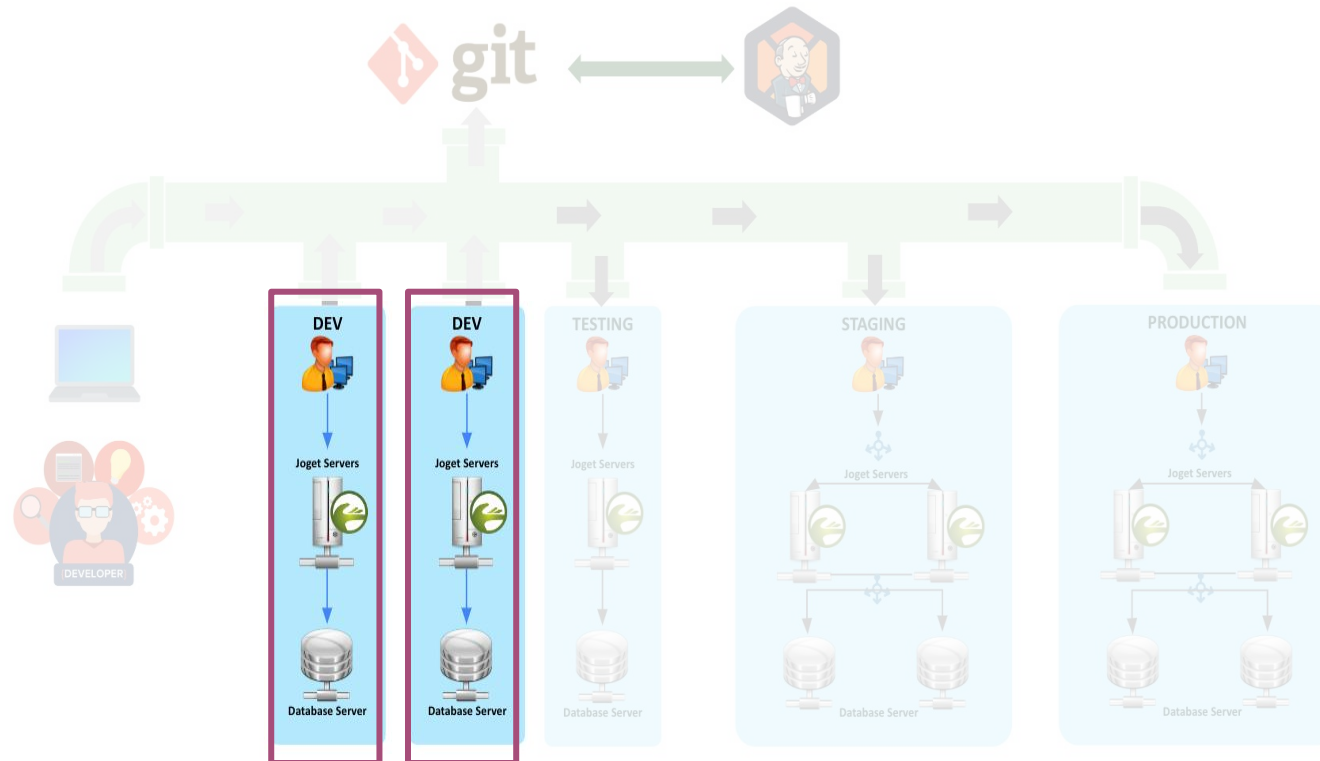
Collaborative Development on Joget

There are main 2 methods of Collaborative Development on Joget:

- The first option being a common GIT repository that app designers point their app to.
- The second option is that multiple app designers work on the same Joget server.

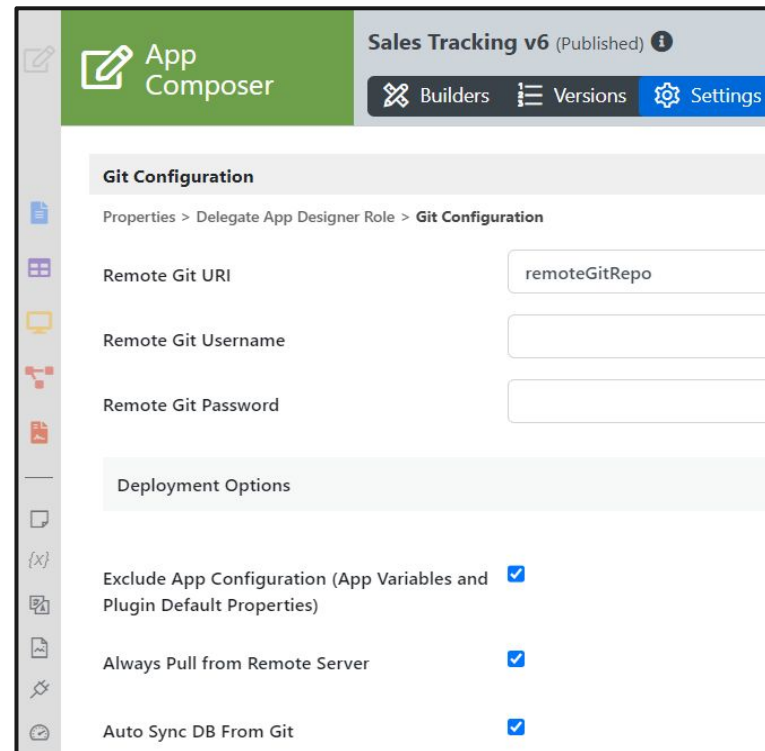
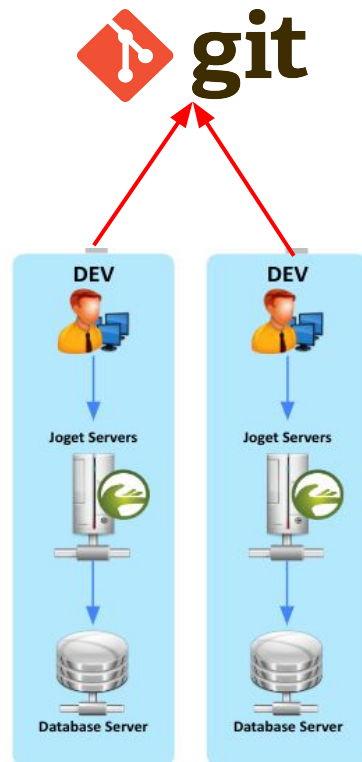
Collaborative Development on Joget – Option 1

Two Designers (A & B) run Joget on their local machines and work on the same app.



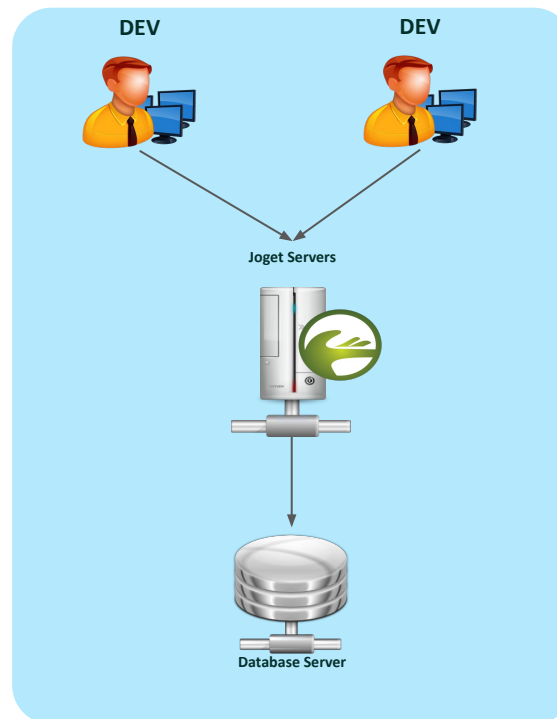
Collaborative Development on Joget – Option 1

- Both Designers will point their app to a common git repository and any changes made will sync to this remote repository.



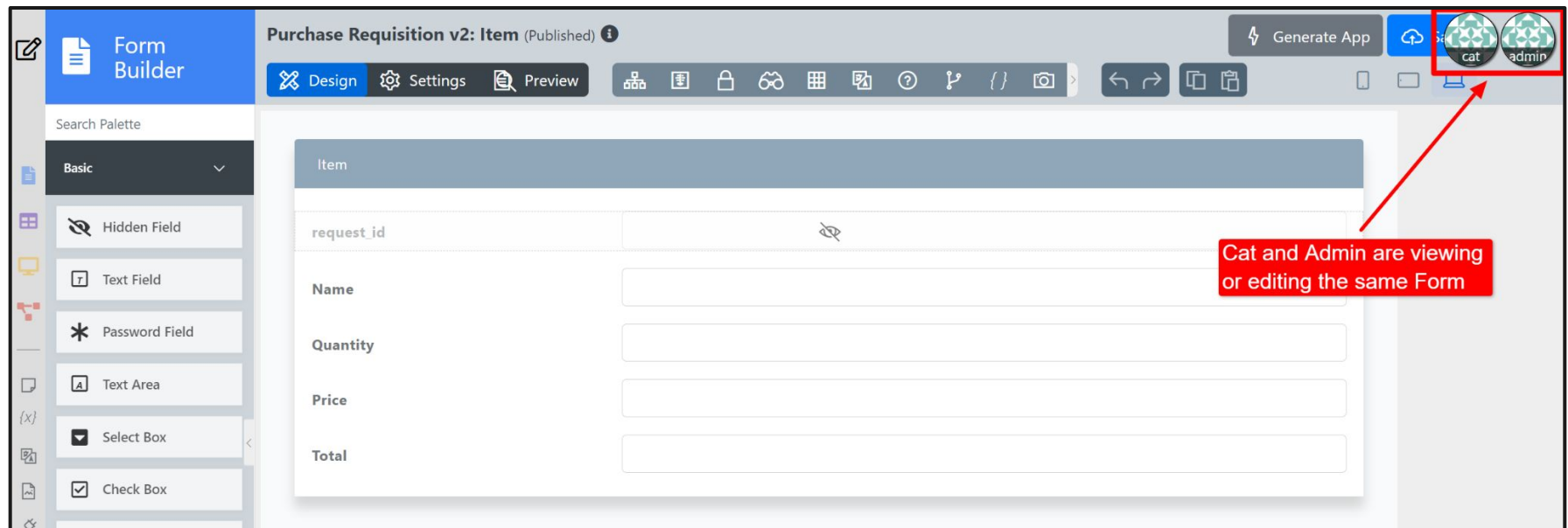
Collaborative Development on Joget – Option 2

In this solutions, both designers shall work on the same Joget server.



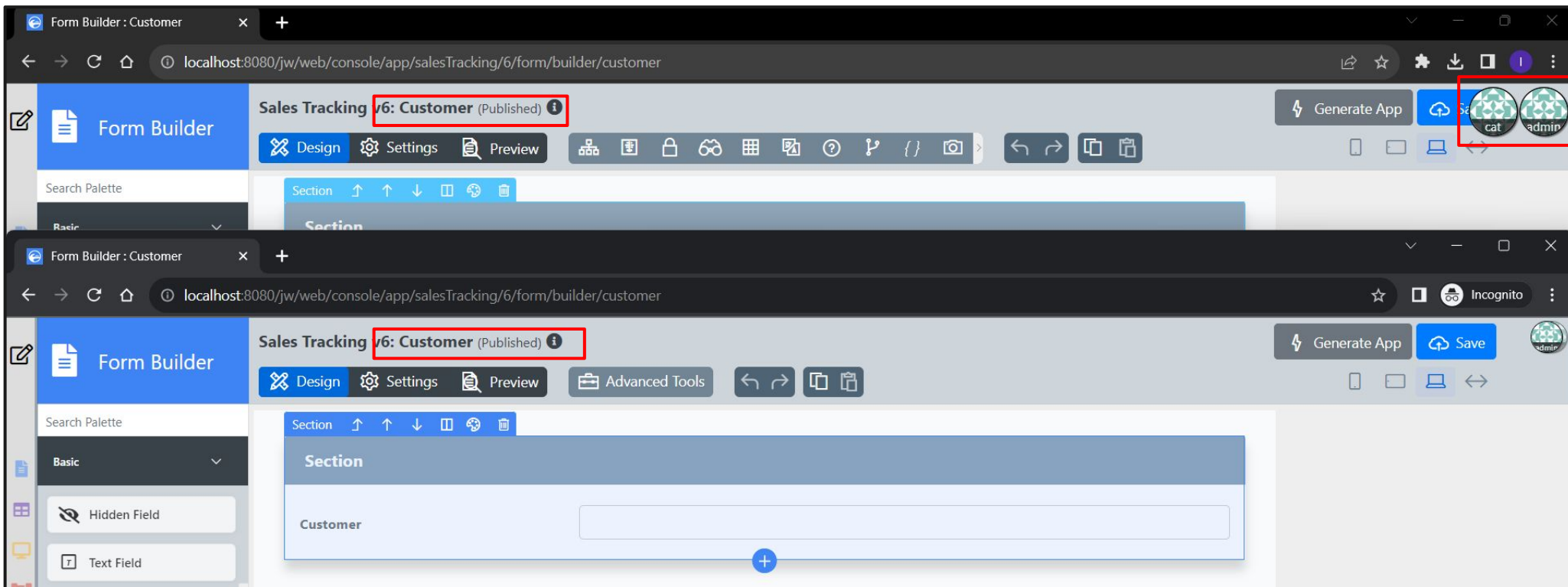
Presence Indicator

- Real-time presence will check to see if someone else is viewing or editing a Joget Component while you have it open – Helps avoid conflicts and promote collaboration



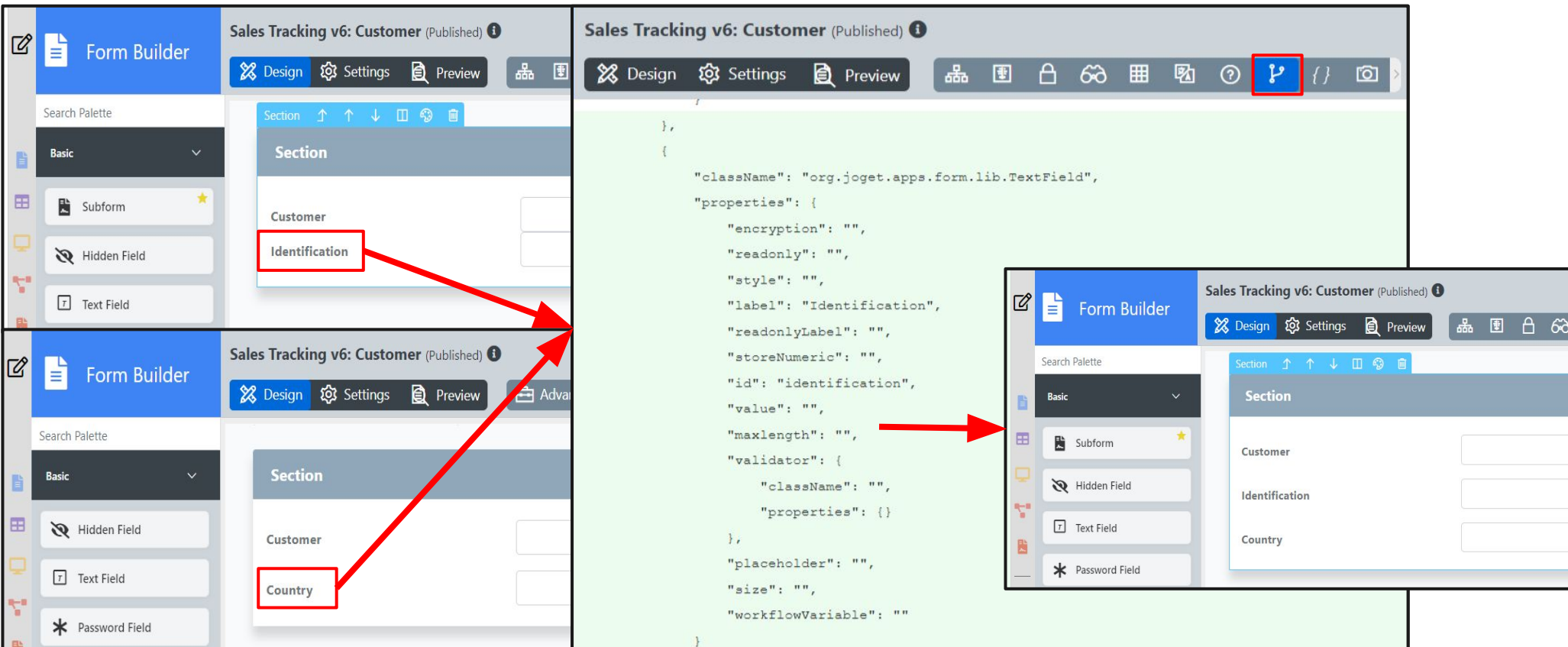
Collaborative Development on Joget – Option 2

- Designers work on the same entity would be indicated on presence indicator.



Collaborative Development on Joget – Option 2

- Changes made on the same entity (i.e. form) will be merged.



The diagram illustrates the collaborative development process on Joget. It shows three screenshots of the Joget Form Builder interface for the 'Sales Tracking v6: Customer' form.

The top-left screenshot shows the 'Form Builder' interface with the 'Sales Tracking v6: Customer' form. The 'Identification' field is highlighted in the 'Section' list. A red arrow points from this field to the 'Country' field in the bottom-left screenshot.

The bottom-left screenshot shows the 'Form Builder' interface with the 'Sales Tracking v6: Customer' form. The 'Country' field is highlighted in the 'Section' list. A red arrow points from this field to the 'Identification' field in the right screenshot.

The right screenshot shows the 'Form Builder' interface with the 'Sales Tracking v6: Customer' form. The 'Identification' field is highlighted in the 'Section' list. A red box highlights the 'Merge' icon in the top toolbar.

Module Review

1. Introduction to Version Control
2. Process Version Control
3. Application Version Control
4. Git Version Control
5. CI/CD
6. Collaborative Development

Recommended Further Learning

- <http://dev.joget.org/community/display/DX8/Version>

Stay Connected With Joget

- www.joget.org
- community.joget.org
- twitter.com/jogetworkflow
- facebook.com/jogetworkflow
- youtube.com/jogetworkflow