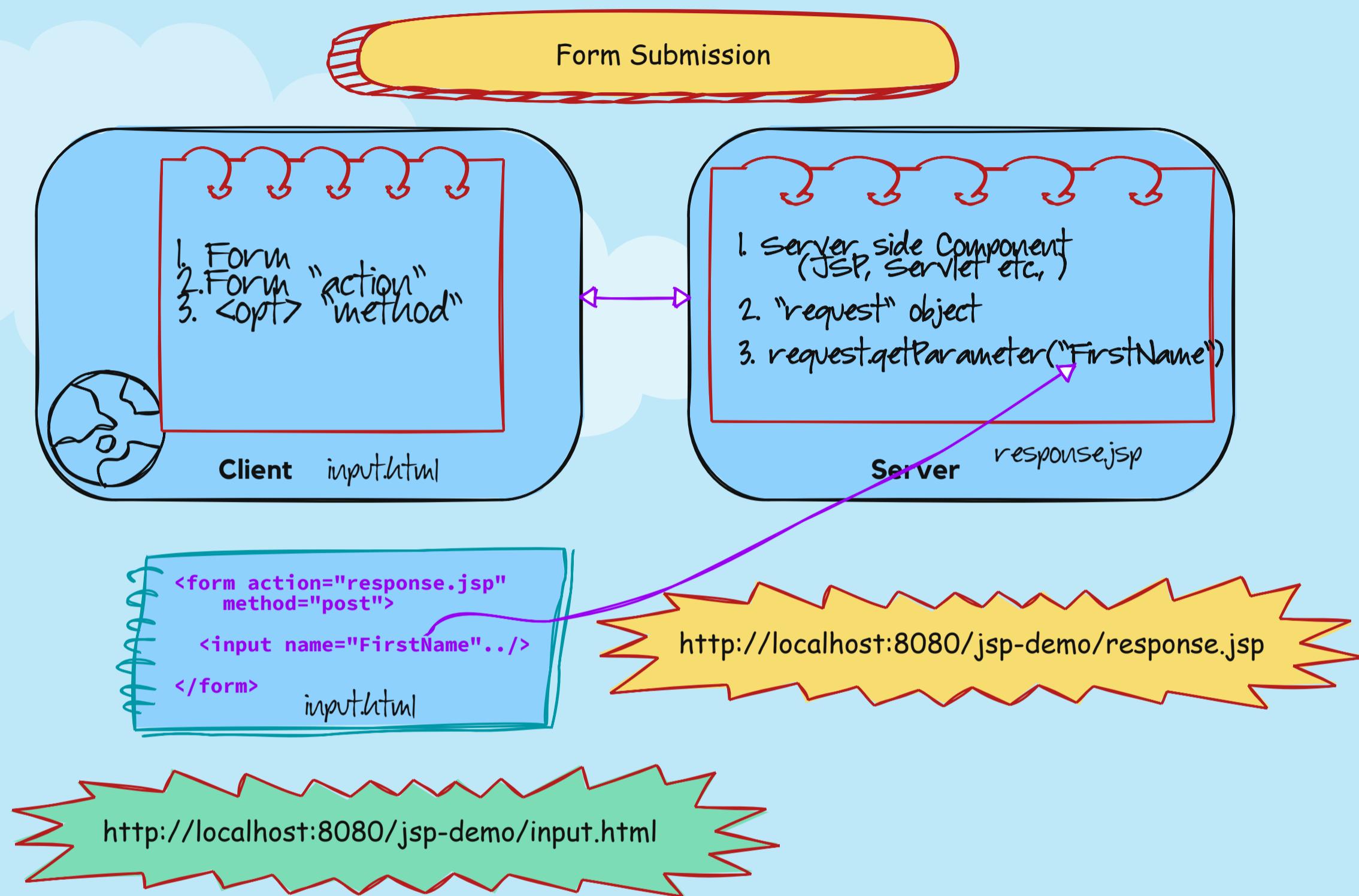
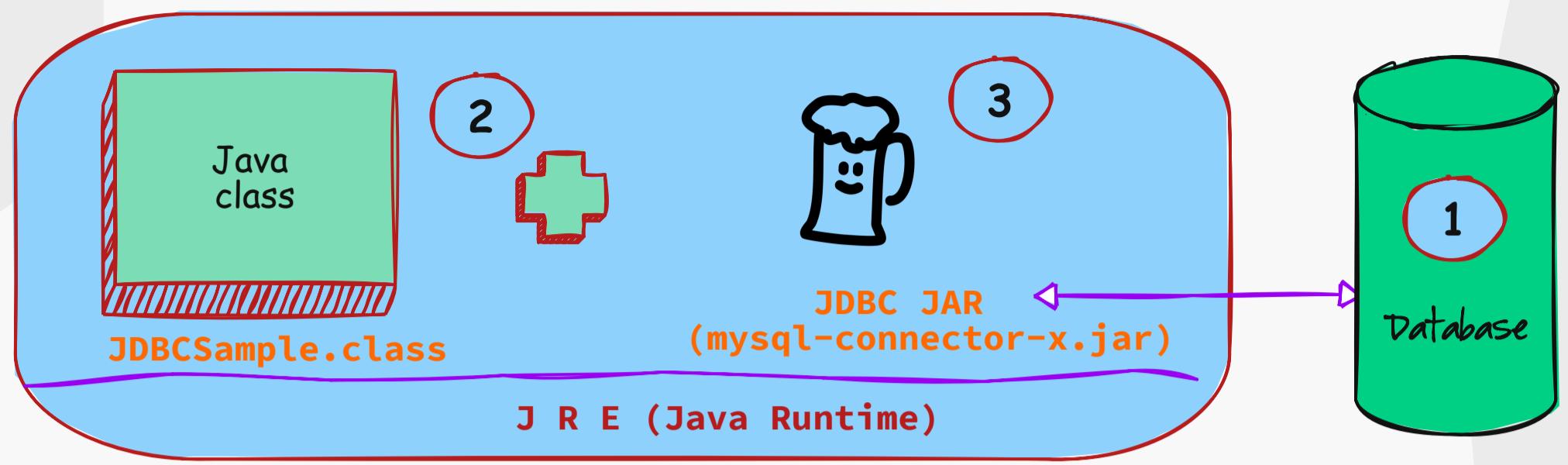


Two different applications "jsp-demo", and "jsp-tutorials" are hosted on the Server "localhost" and exposed at the port number "8080".

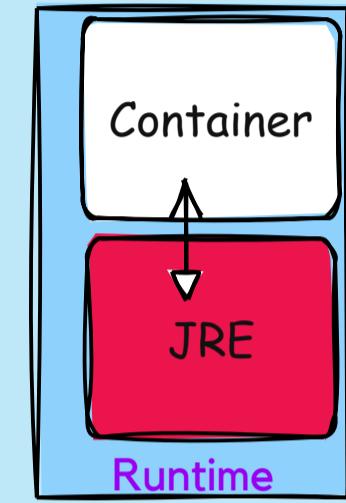
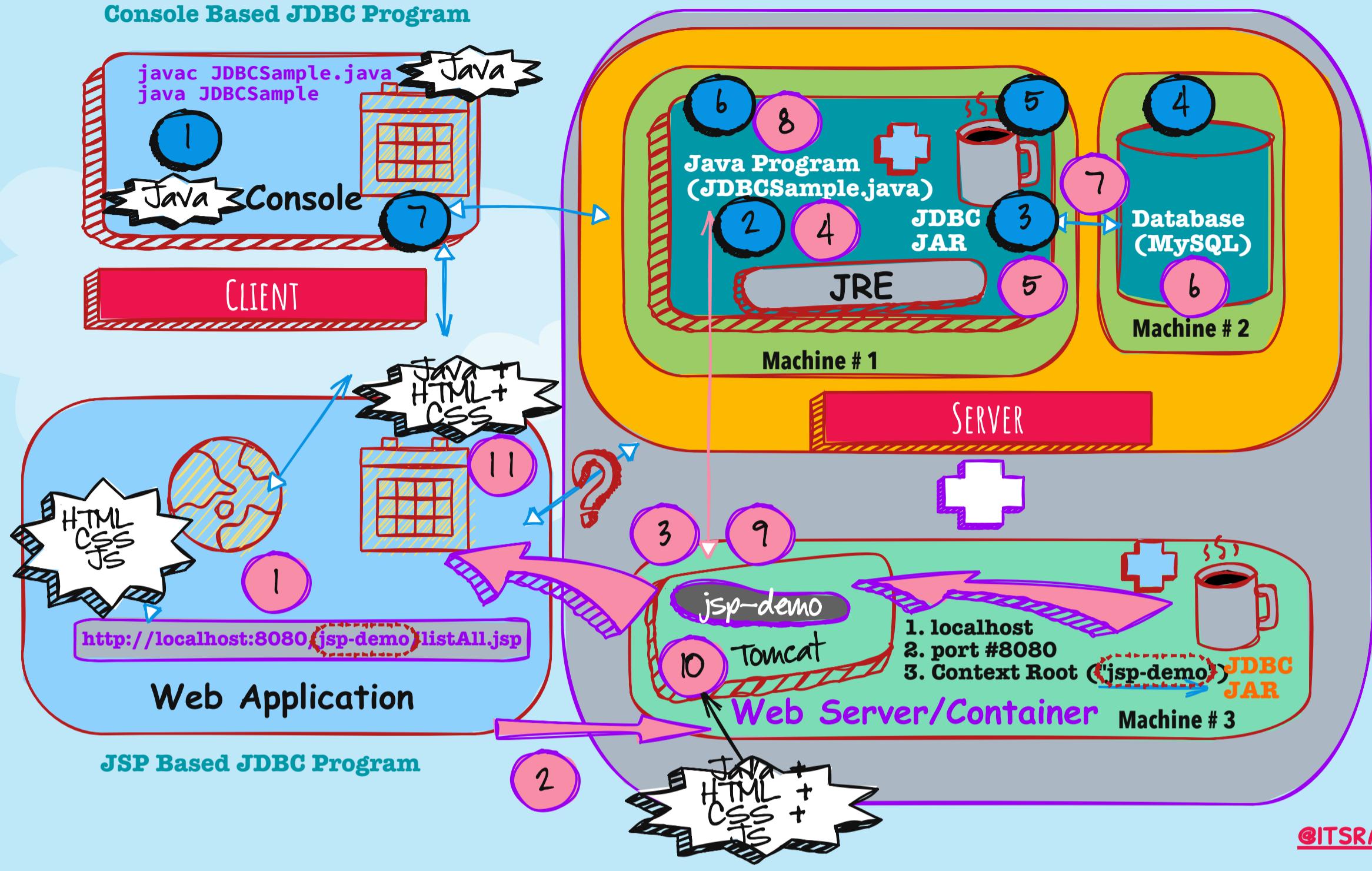
The resources being looked at each application differ. In "jsp-demo", it is "helloworld.jsp", and in "jsp-tutorials", it is "index.jsp".



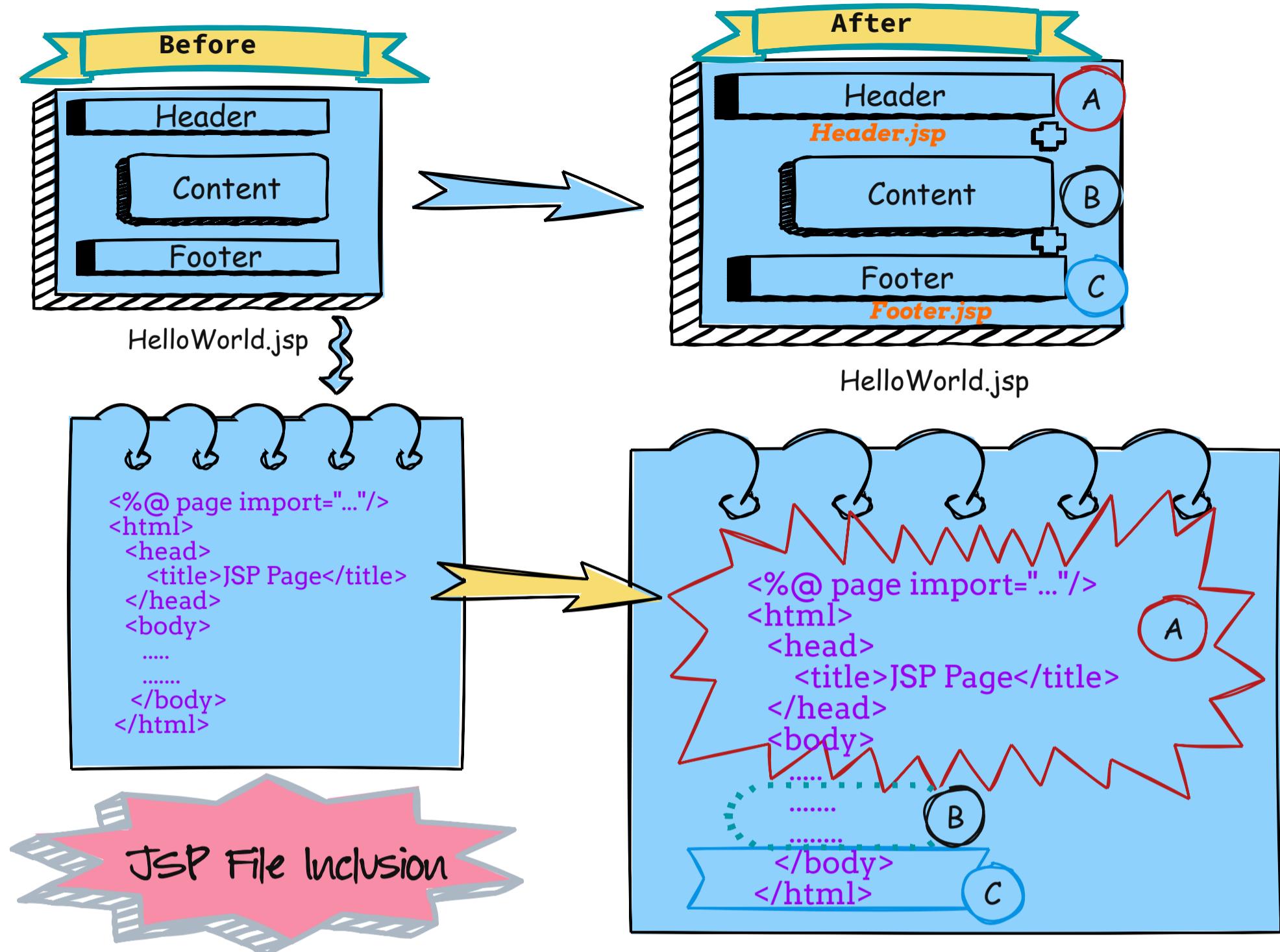


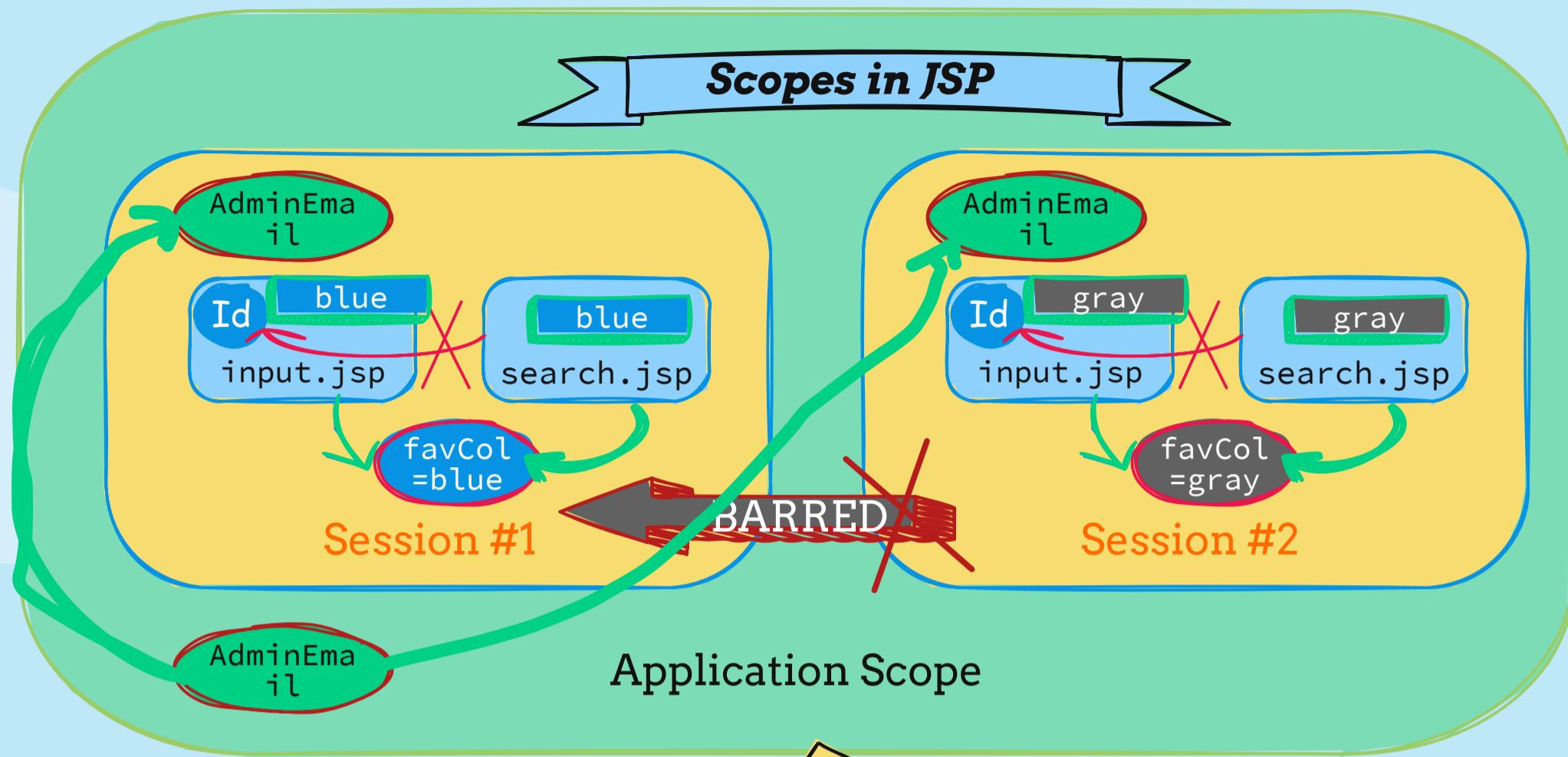
Adding the JDBC Jar into Eclipse Project

1. Right click project
2. Select Properties
3. Click the "Libraries" Tab
4. Select "Module Path"
5. Click "Add External JARs"
6. Choose the mysql-connector JAR file
7. Click Ok/Apply/Open
8. Click on "Order and Export" Tab
9. Ensure that this JAR is selected
10. Build the Project



@ITSRAGHZ / 07-SEP-2022





Page Scope

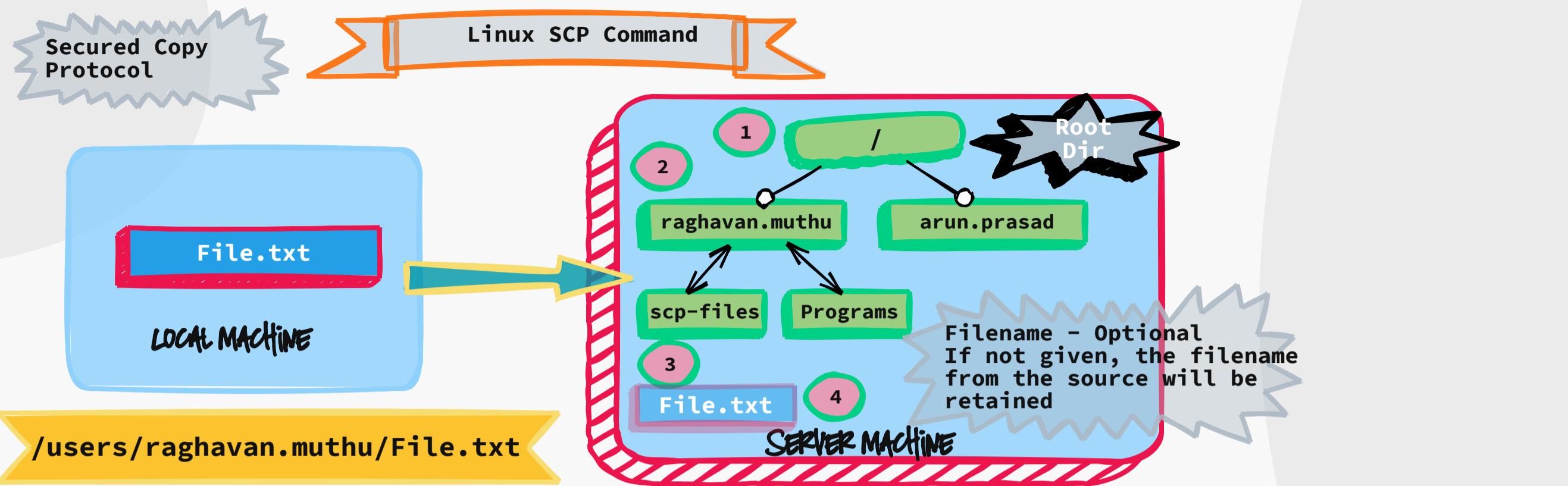
- * Visible to Page
- * NOT shared across other pages

Session Scope

- * Visible across all the pages sharing the same session
- * NOT shared across the Sessions

Application Scope

- * Visible across all the pages and all the Sessions across the Web Application.



Data Ingredients

1. User - `raghavan.muthu`
2. Server - `10.121.1.241`
3. target Location - `/home/raghavan.muthu/scp-files`

cp /dir/.../source /dir/.../target

scp /local/path/to/file user@a.b.c.d:/targetPath

scp /local/path/to/file user1@a.b.c.d:/home/user1/path

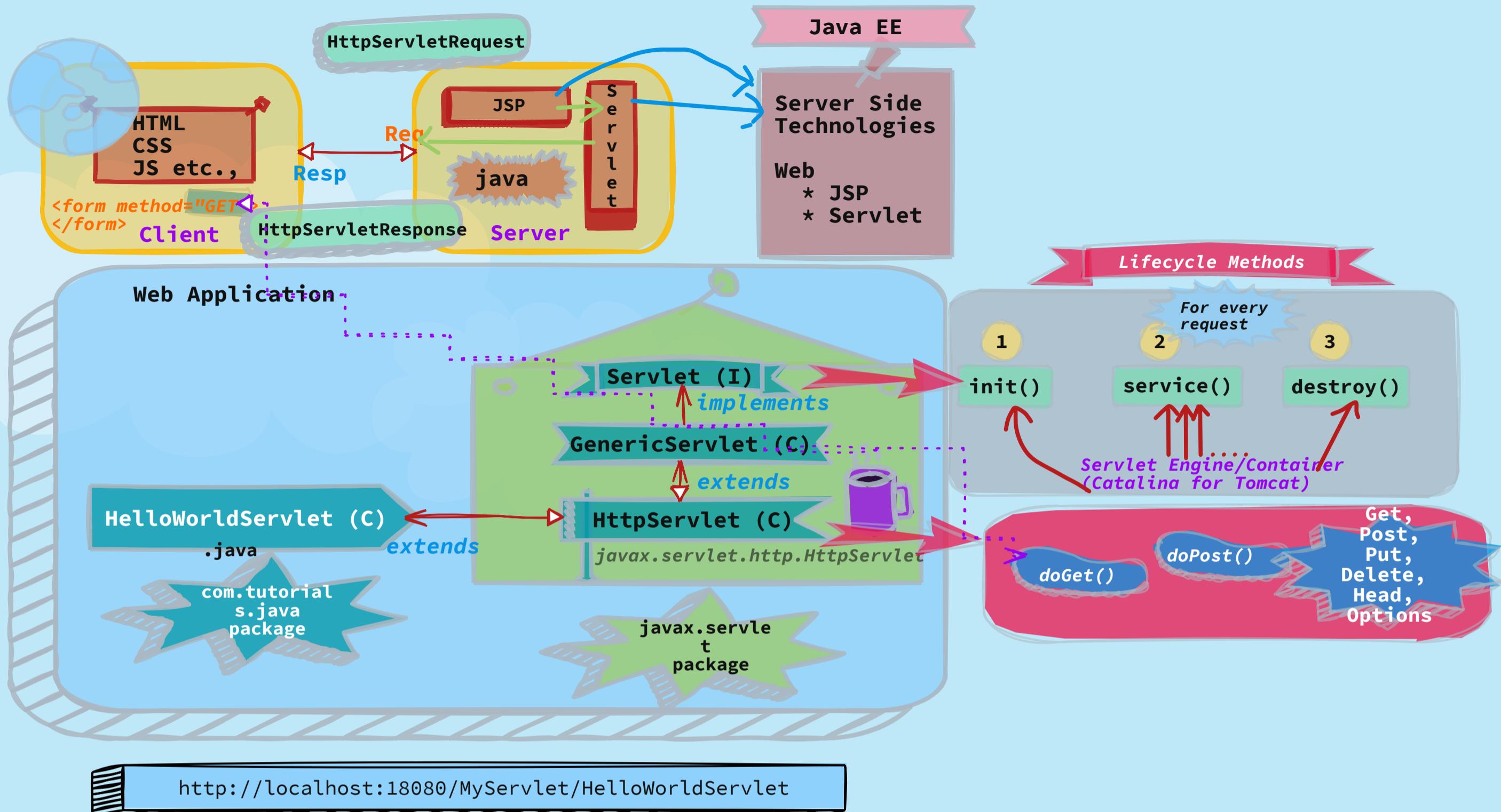
**User Account
<userName>@<ServerIP>**

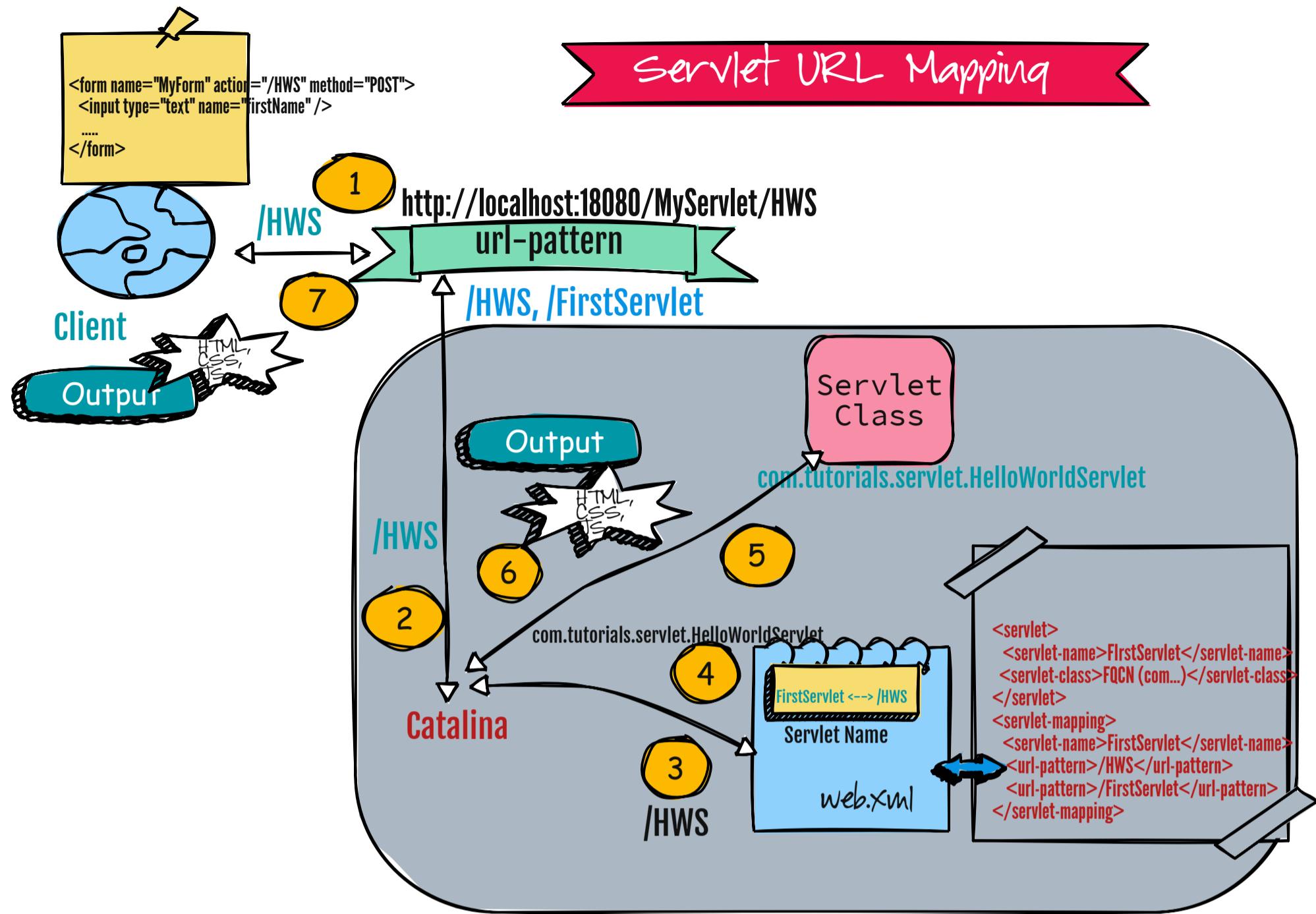
Path

scp /local/path/to/file user1@a.b.c.d:/home/user2/path

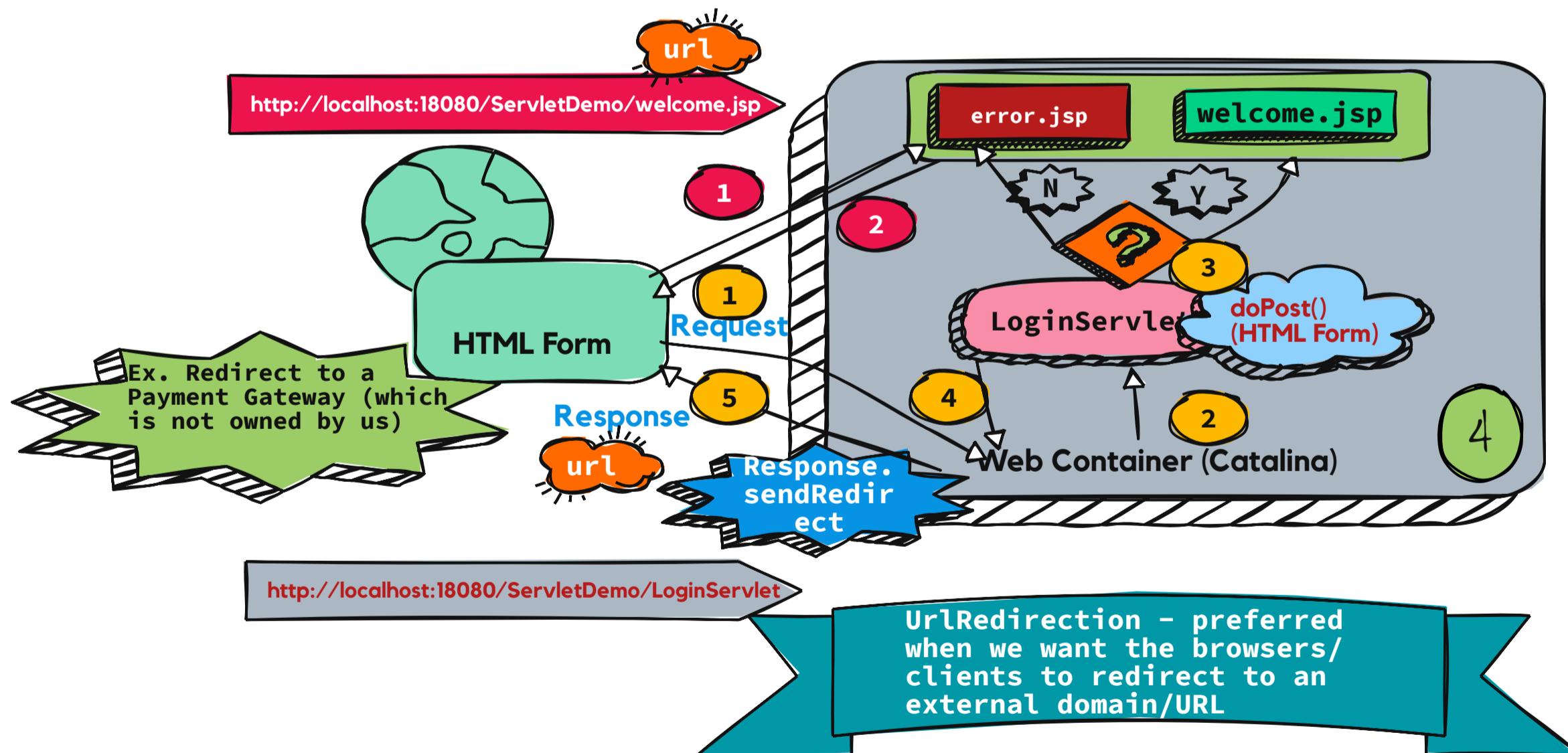
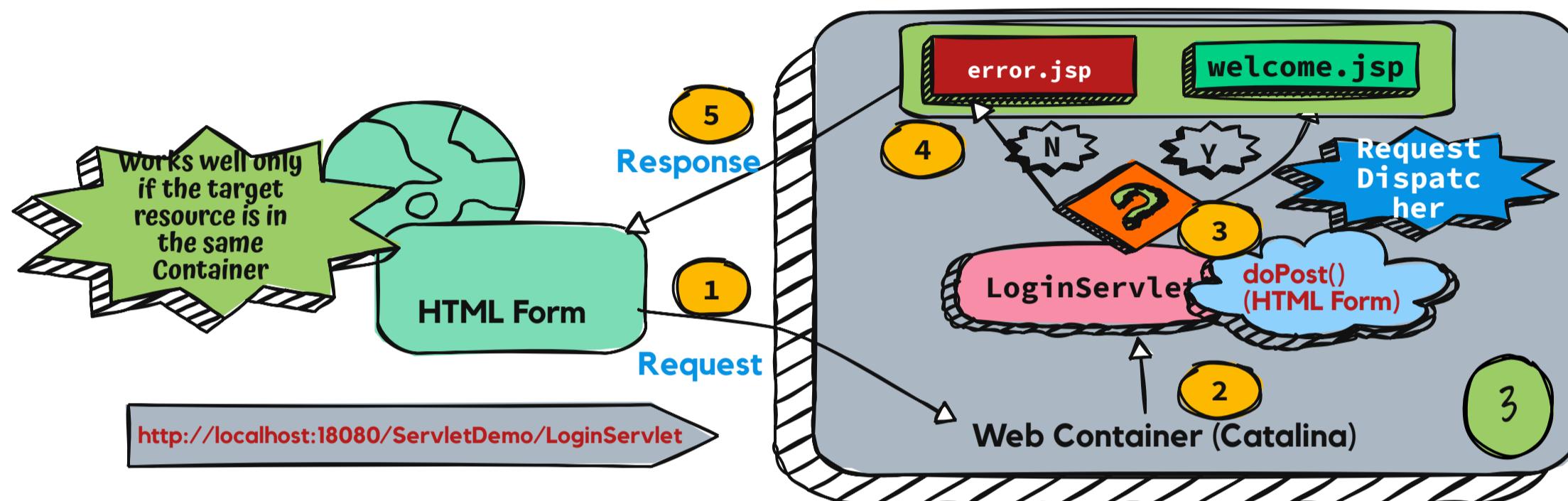
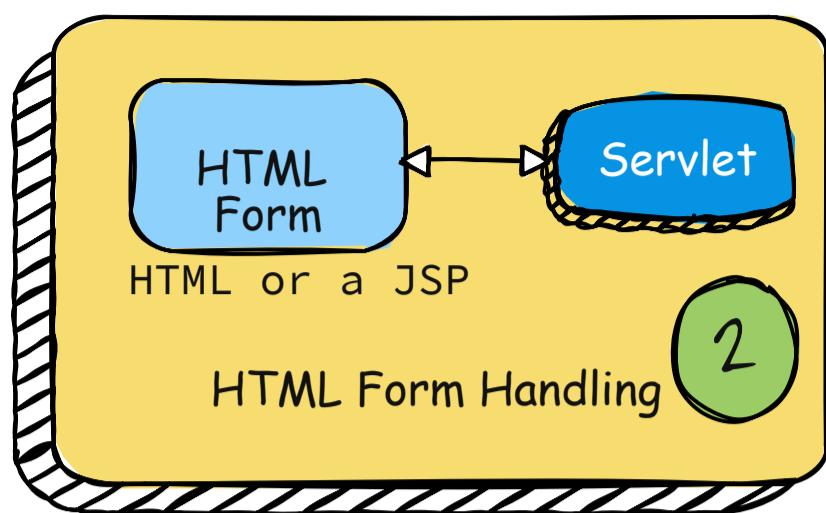
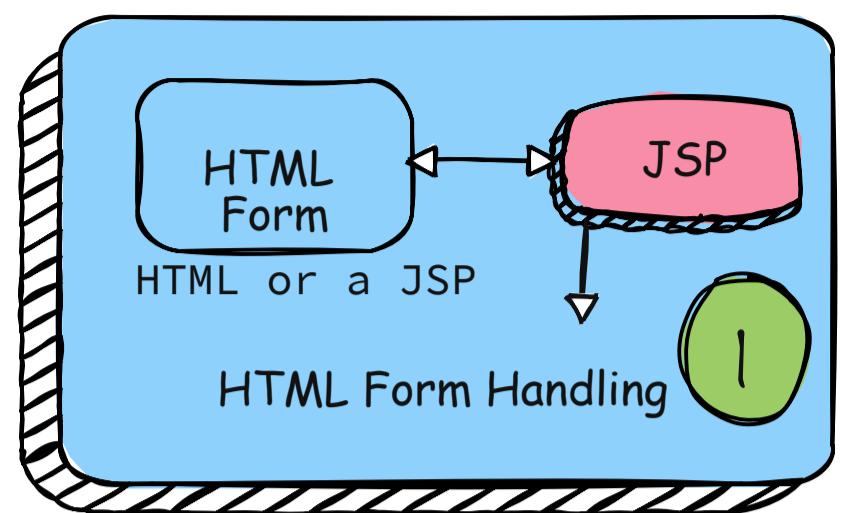
scp /local/path/to/file user2@a.b.c.d:/home/user1/path

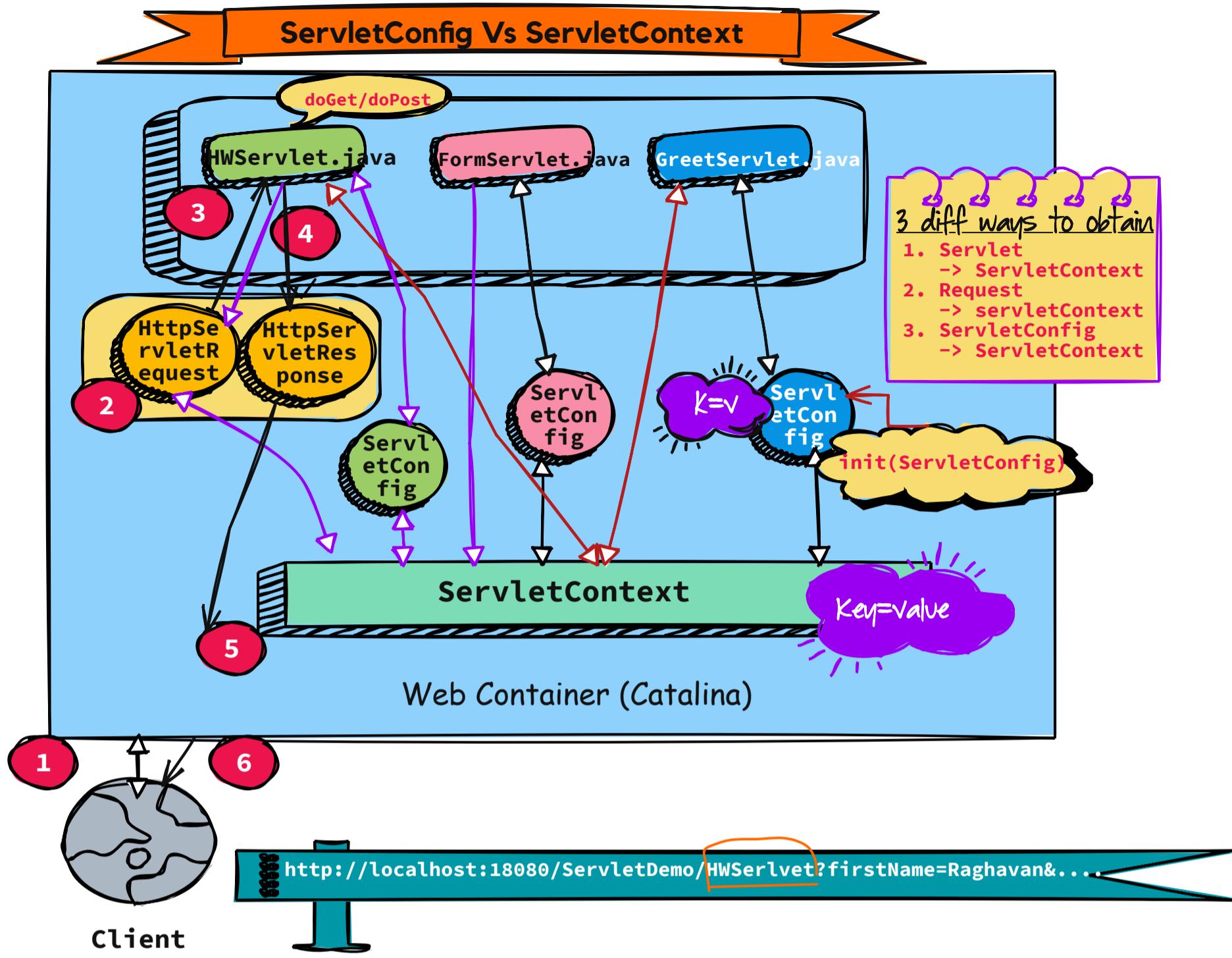
scp /local/path/to/file user2@a.b.c.d:/home/user3/path

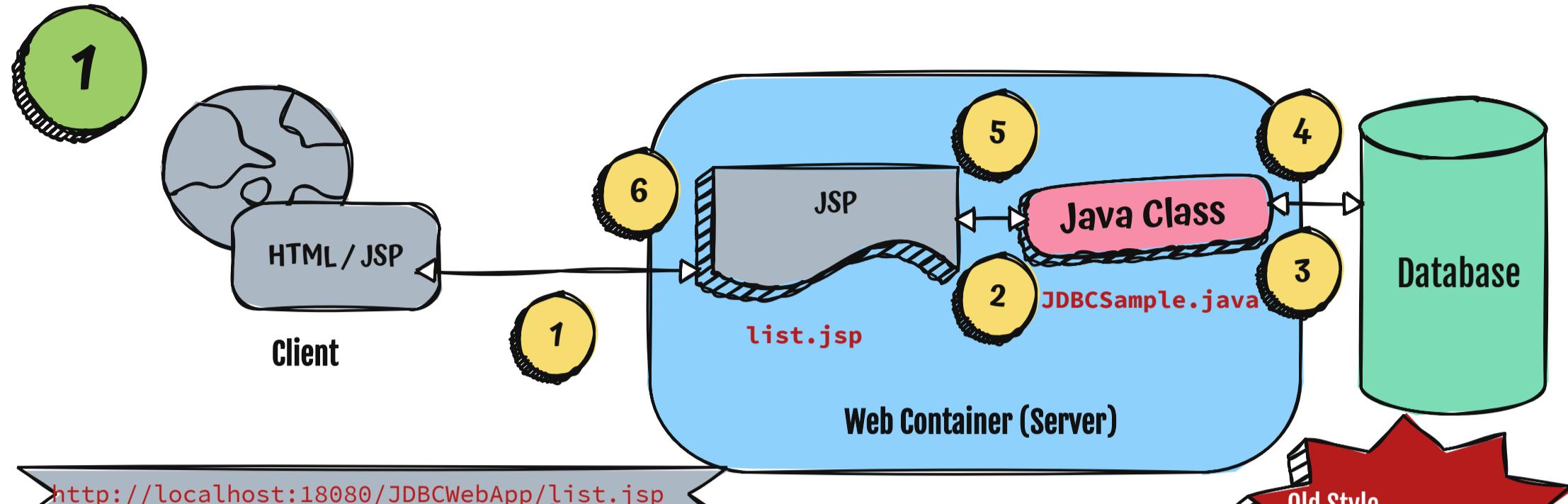




Different ways of Form Handling in Servlet/JSP

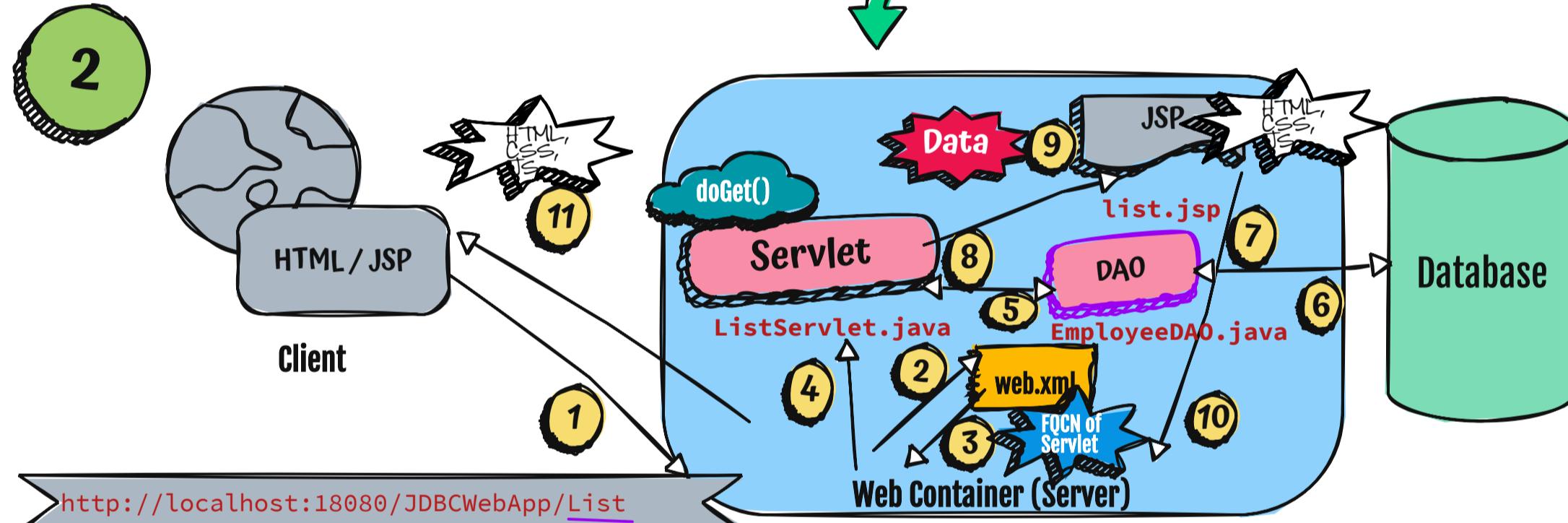






`http://localhost:18080/JDBCWebApp/list.jsp`

Old Style.
Outdated
Not Recommended at all



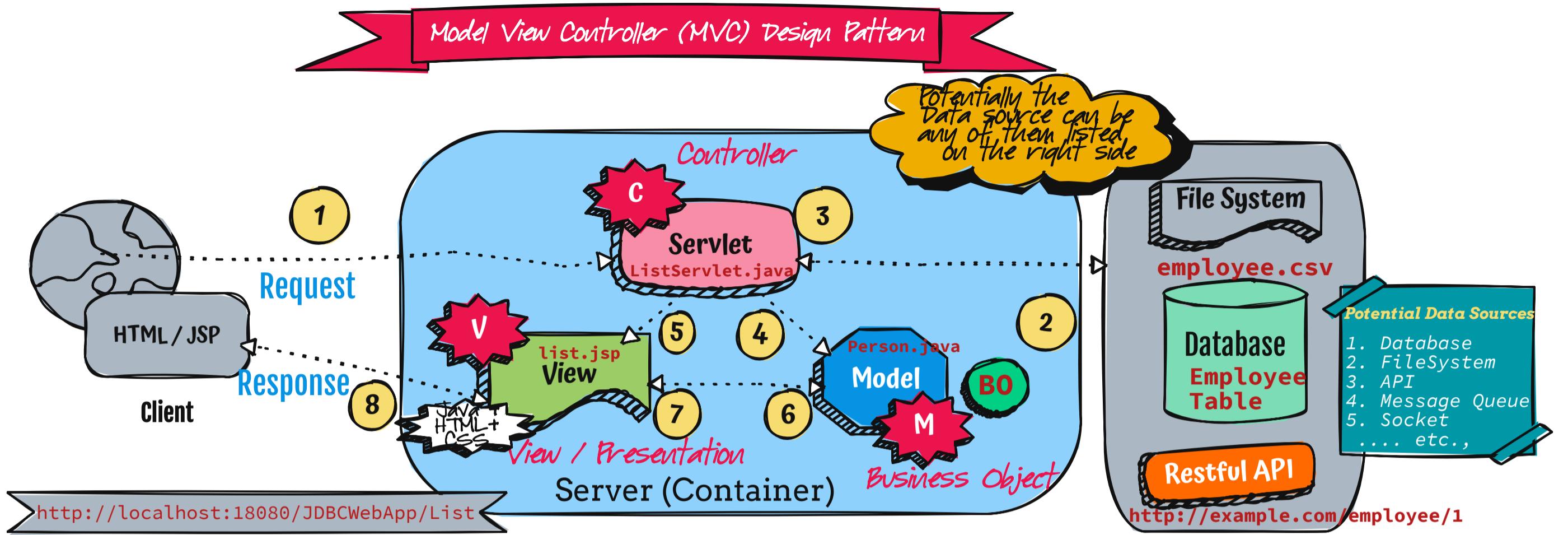
`http://localhost:18080/JDBCWebApp/List`

MVC Model

Design Principle for a Class
A Class should handle only one responsibility
Single Responsibility Principle

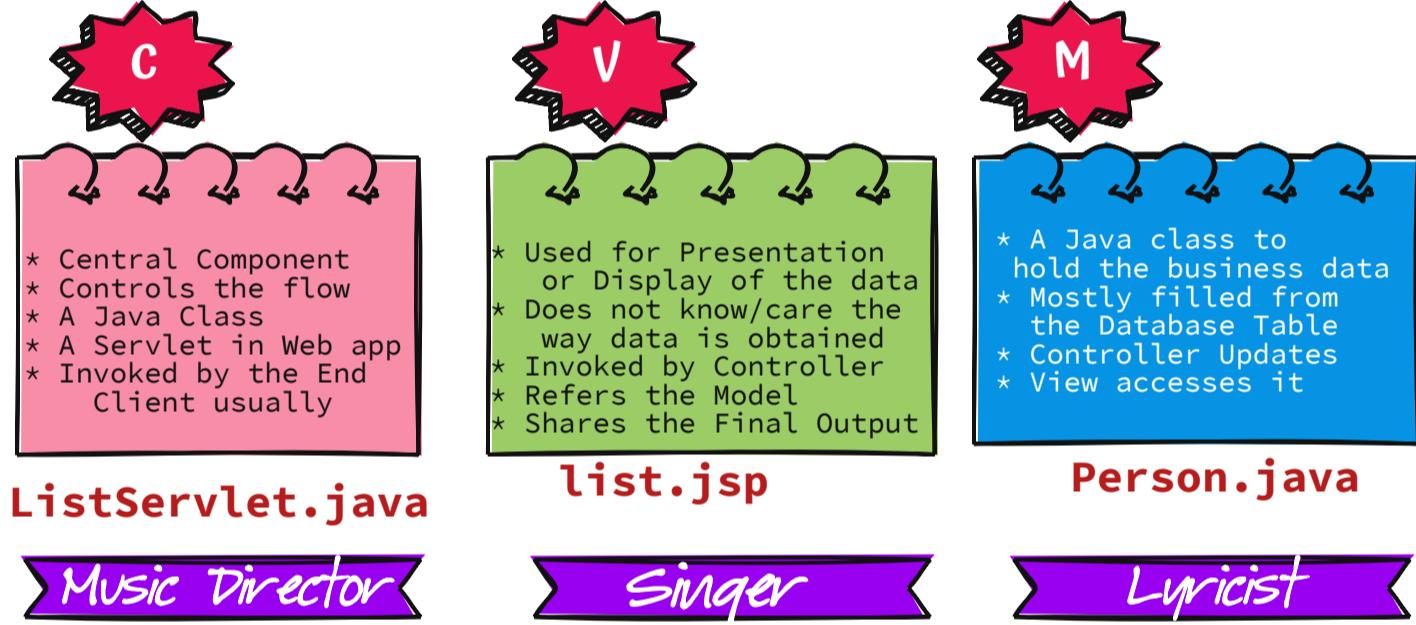
DAO - Data Access Object

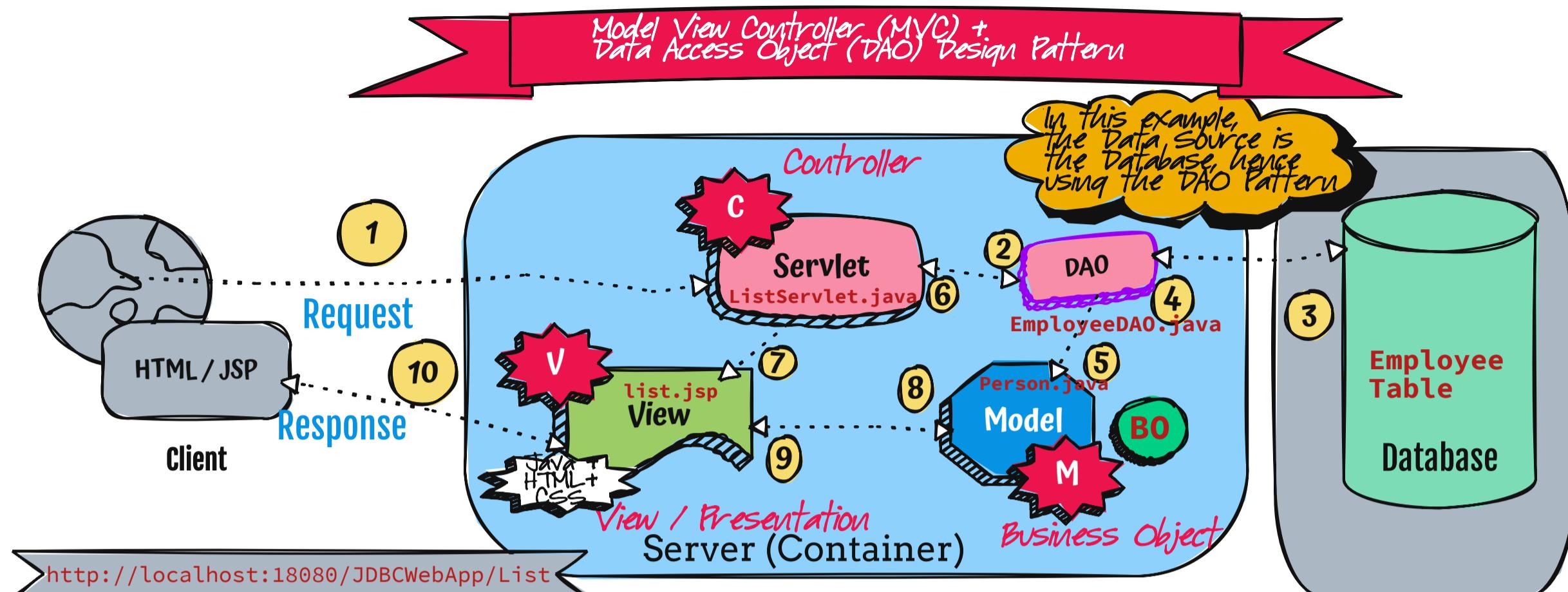
* A design pattern that separates the Data Access Operations in a separate Java class
* EmployeeDAO - A DAO class deals with the Employee Table



Design Pattern - MVC
A Design patterns helps to have a proper separation of control in the Application flow.

- * M (Model) - A Java class that stores the data
- * V (View) - A JSP Page that displays the data by accessing / referring to the Model
- * C (Controller) - A Java class (typically a Servlet in a Web Application) that controls the entire flow being a central component





Design Pattern - MVC

A Design patterns helps to have a proper separation of control in the Application flow.

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Music Director

 C

- * Central Component
 - * Controls the flow
 - * A Java Class
 - * A Servlet in Web app
 - * Invoked by the End Client usually

Singer

V

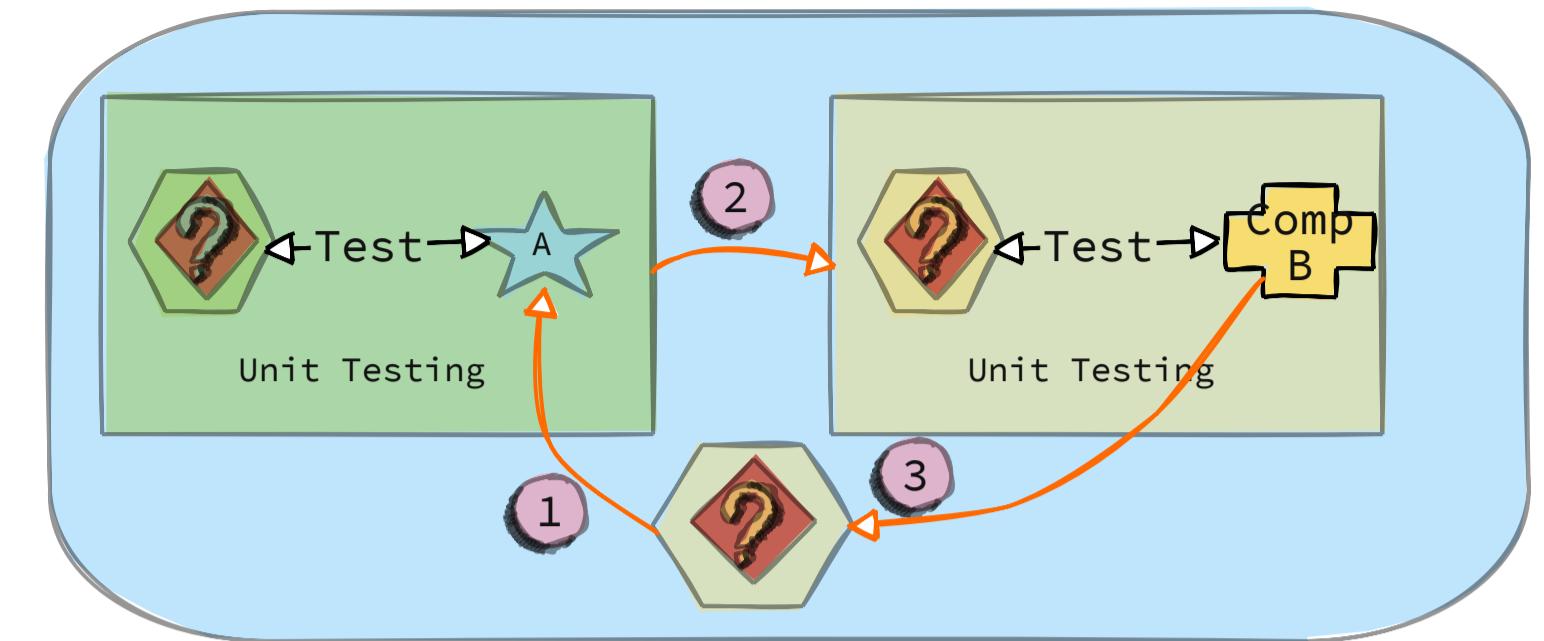
- * Used for Presentation or Display of the data
 - * Does not know/care the way data is obtained
 - * Invoked by Controller
 - * Refers the Model
 - * Shares the Final Output

Lyricist

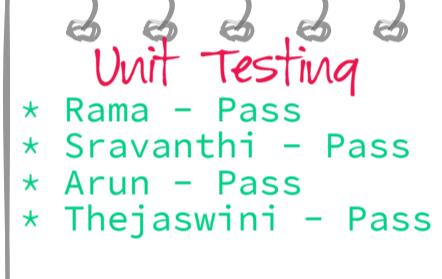
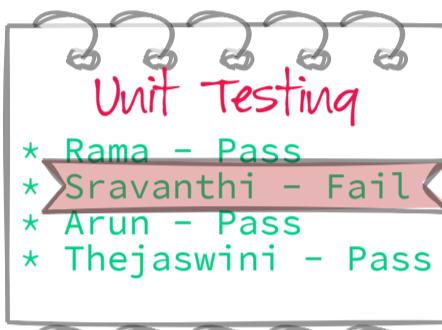
- * A Java class to hold the business data
 - * Mostly filled from the Database Table
 - * Controller Updates
 - * View accesses it

ListServlet.java

Unit Vs Integration Testing



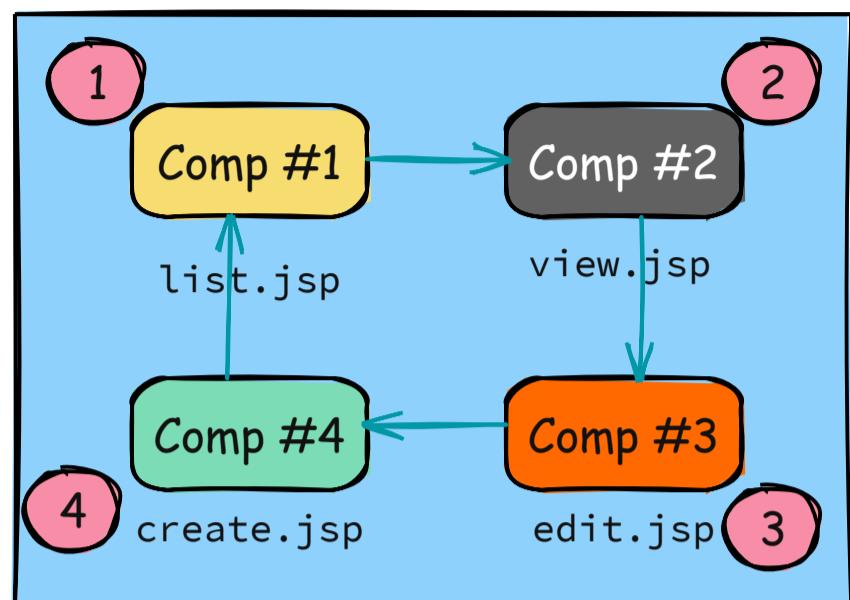
Integration Testing



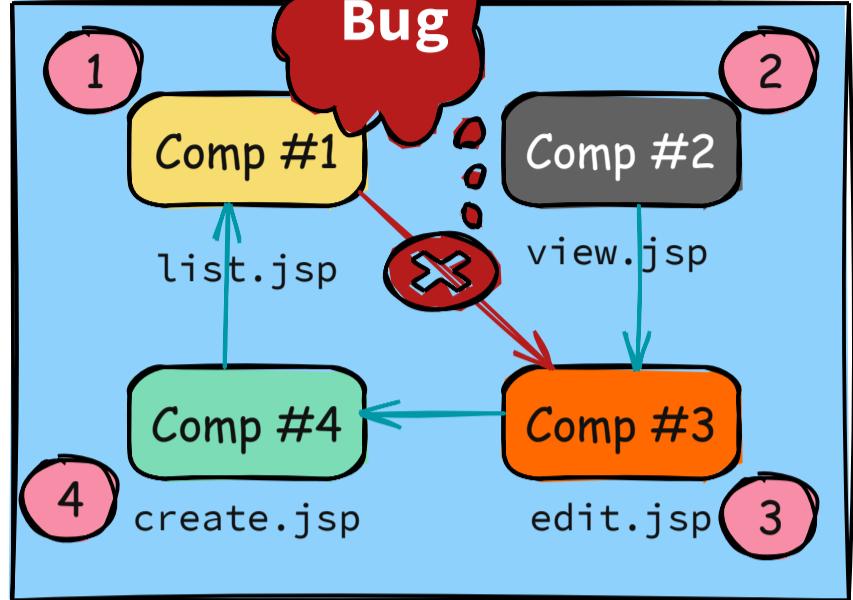
Unit Testing - performed at a component level

Integration Testing - performed at an Application level that combines all the components involved in the flow

SANITY VS REGRESSION TESTING



Happy Path Scenario
Sanity Testing



Regression Testing
Unusual / Mixed Path

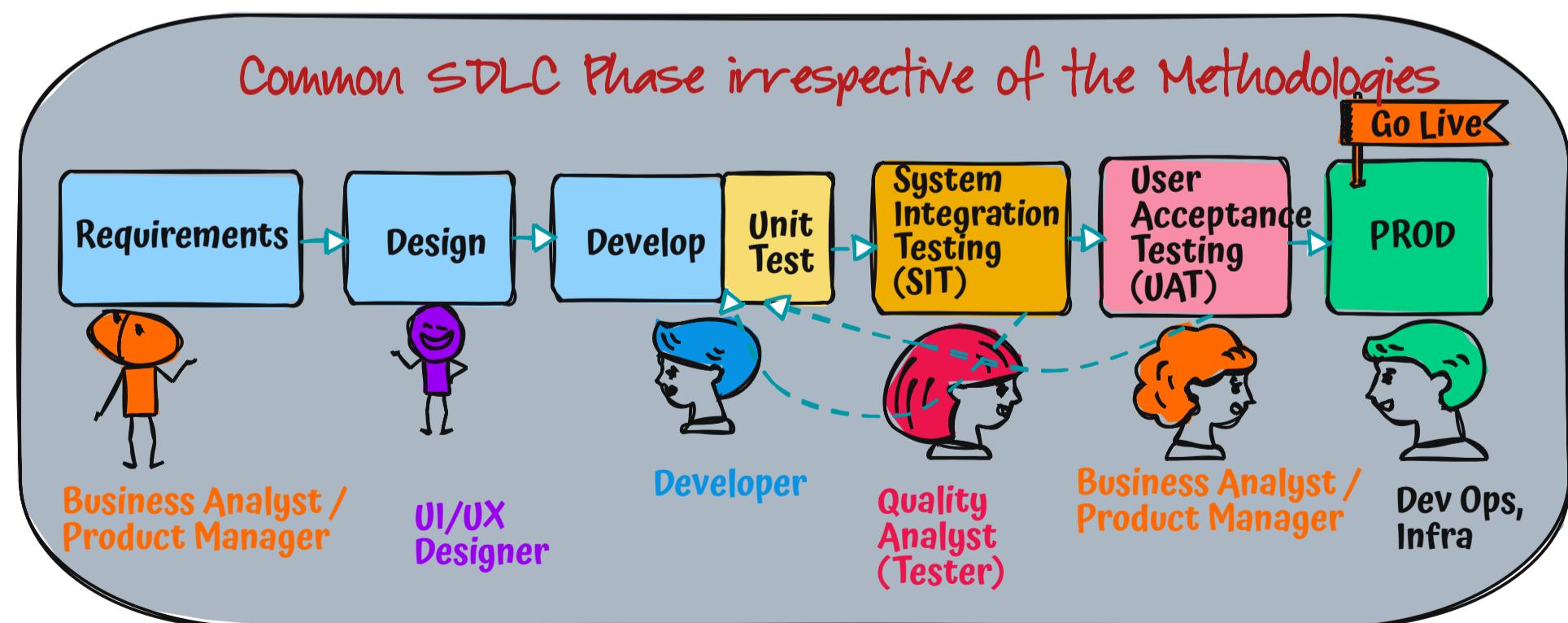
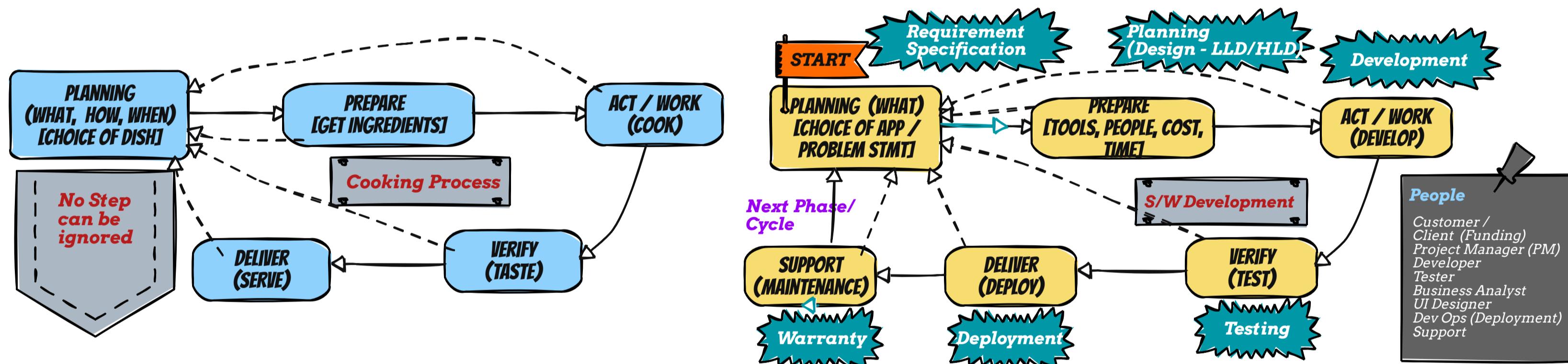
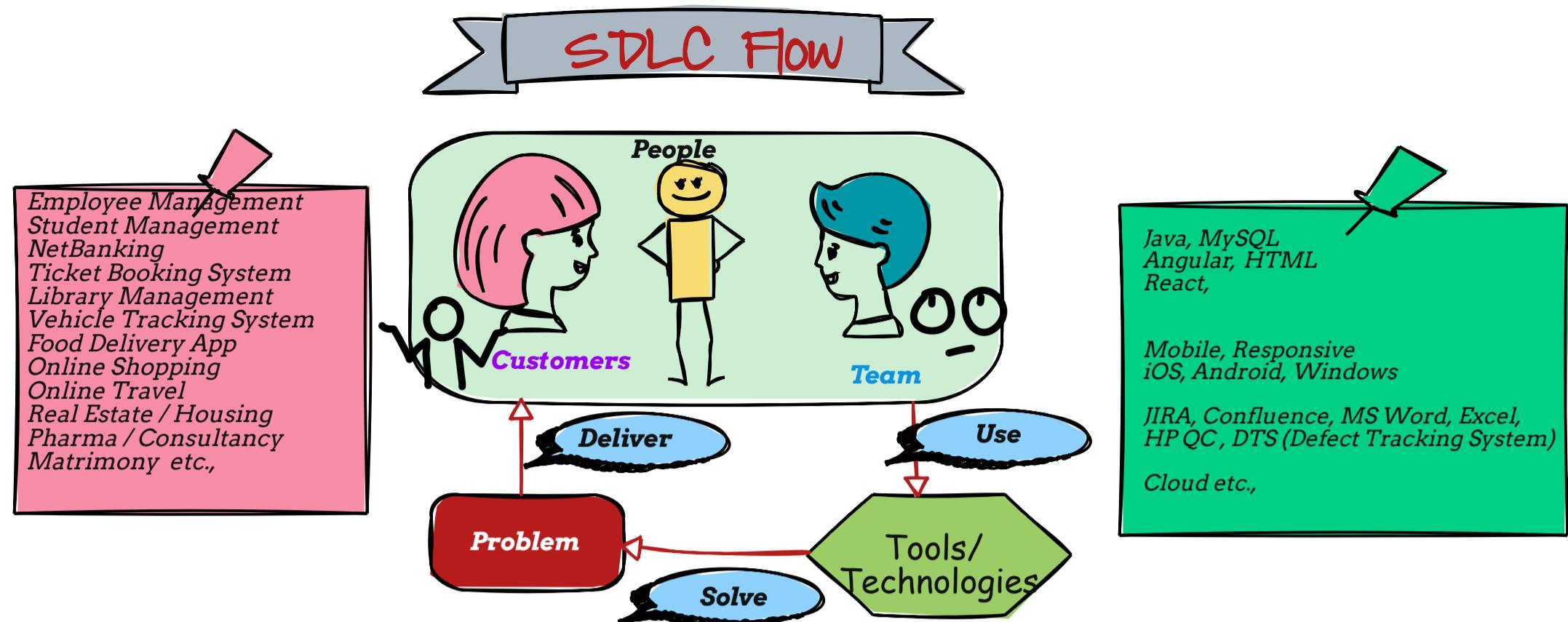
Sanity -
Order of testing

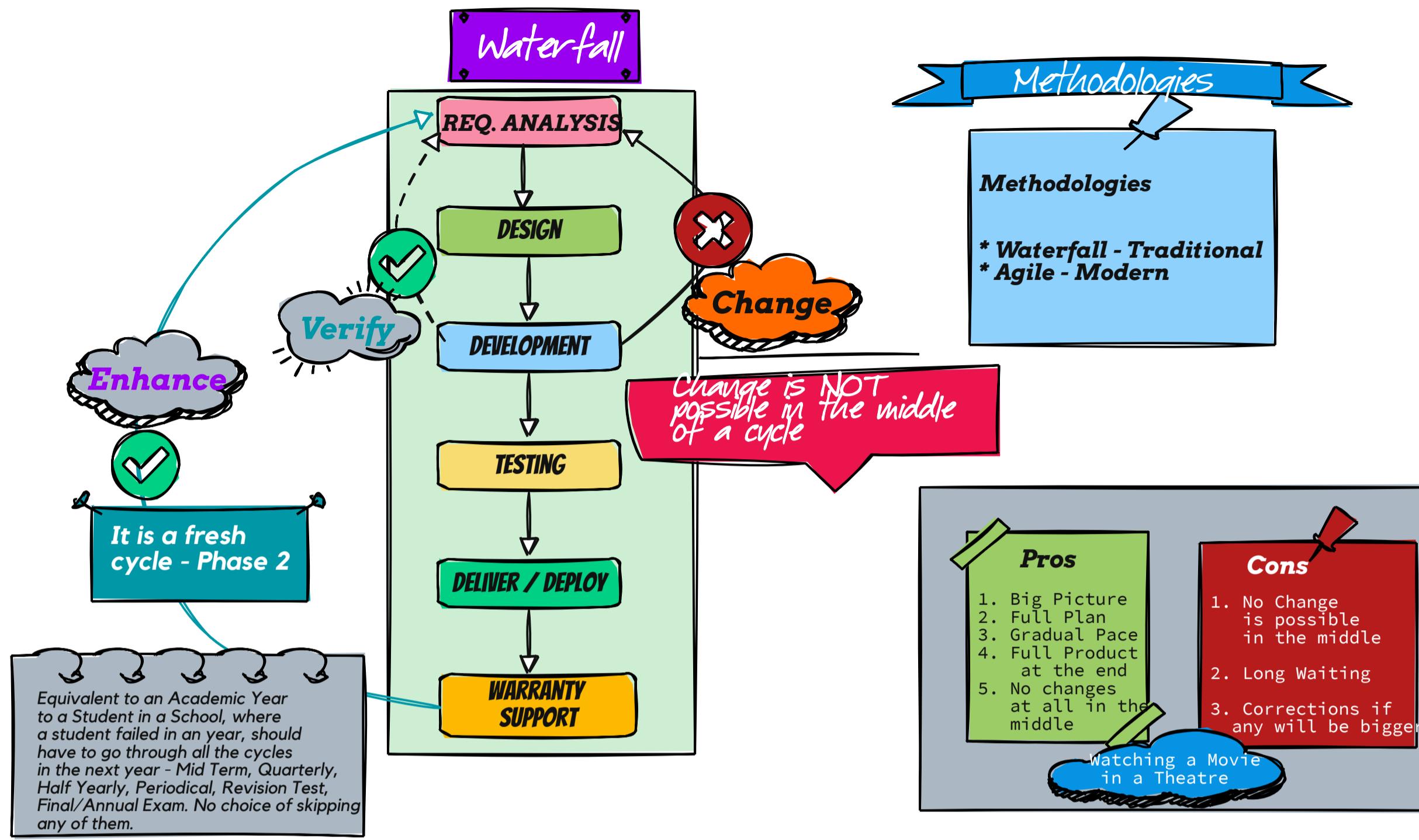
Sanity Vs Regression -
Usual or Natural Vs
Unusual or Mixed

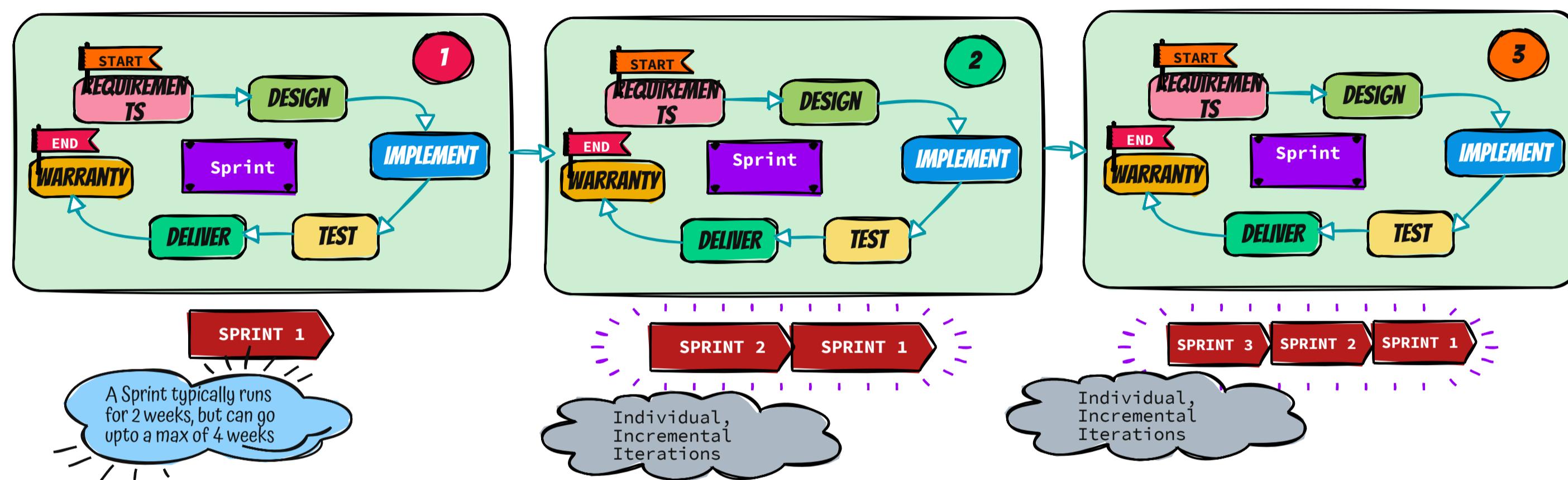
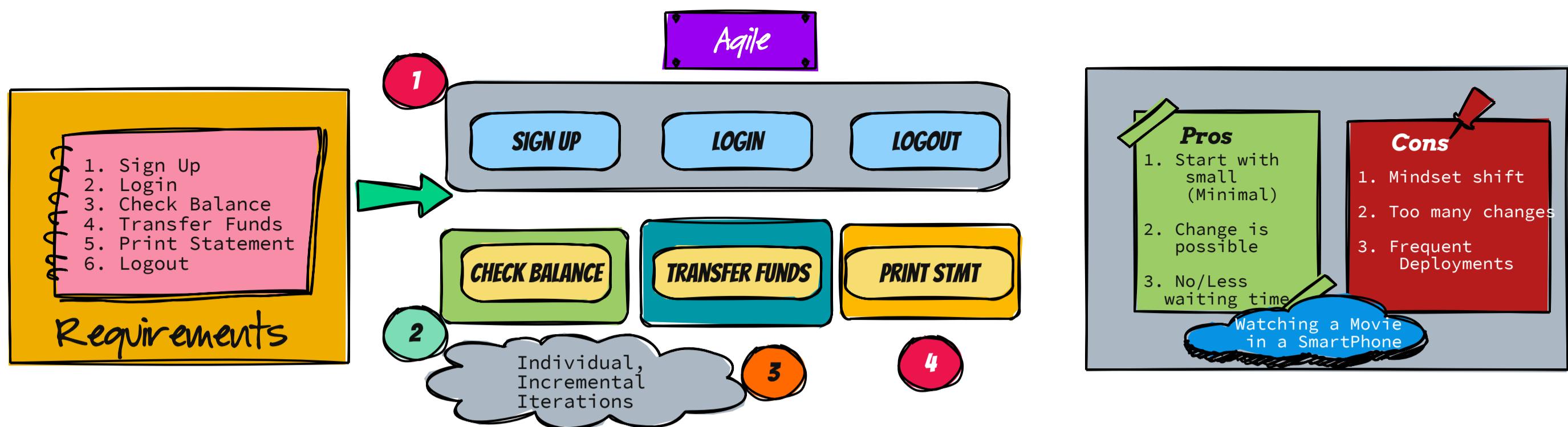
Unit -
Quantity of Components

Unit Vs Integration -
Single Component Vs
Multiple Components

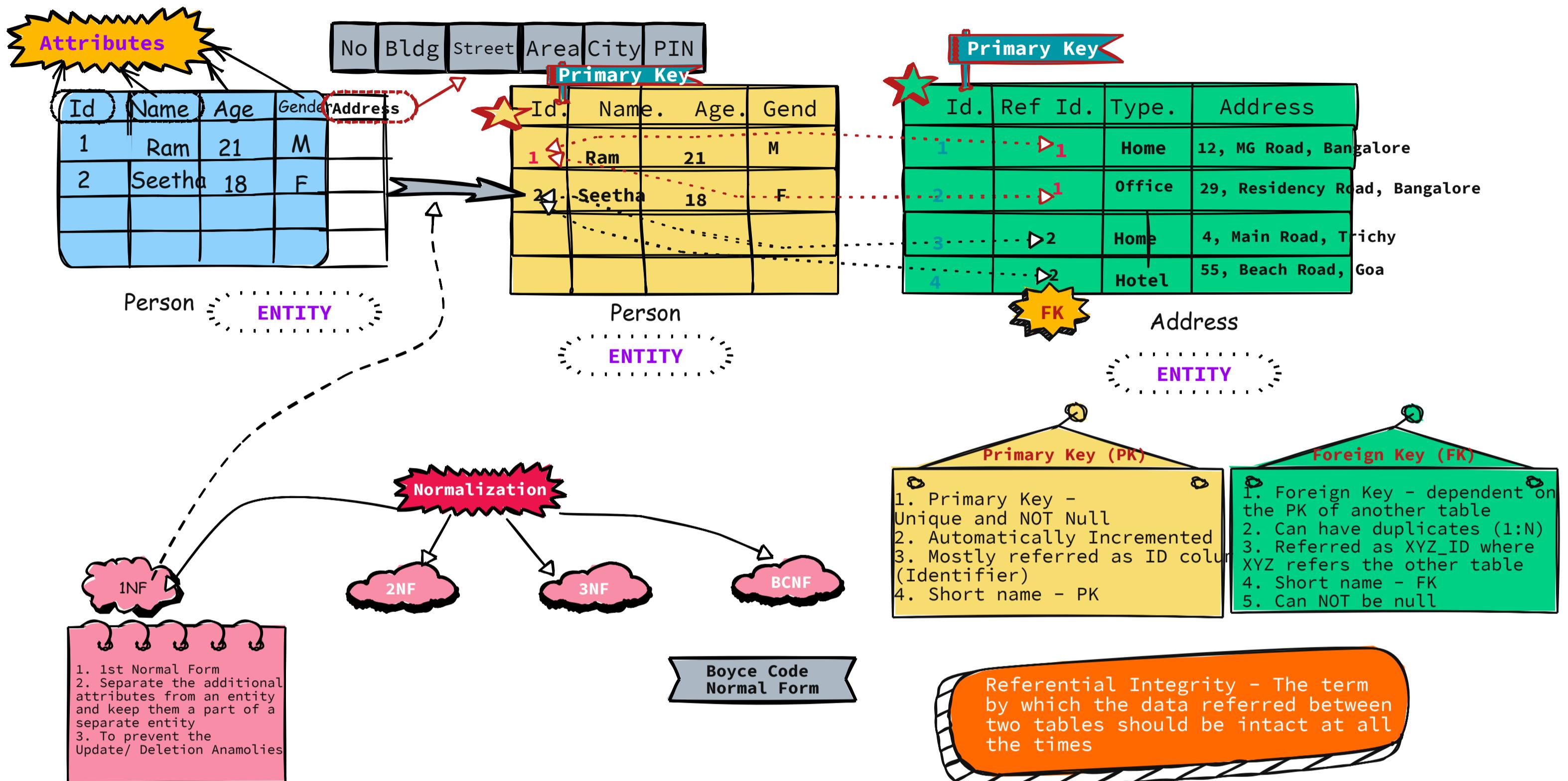
Software Development Life Cycle



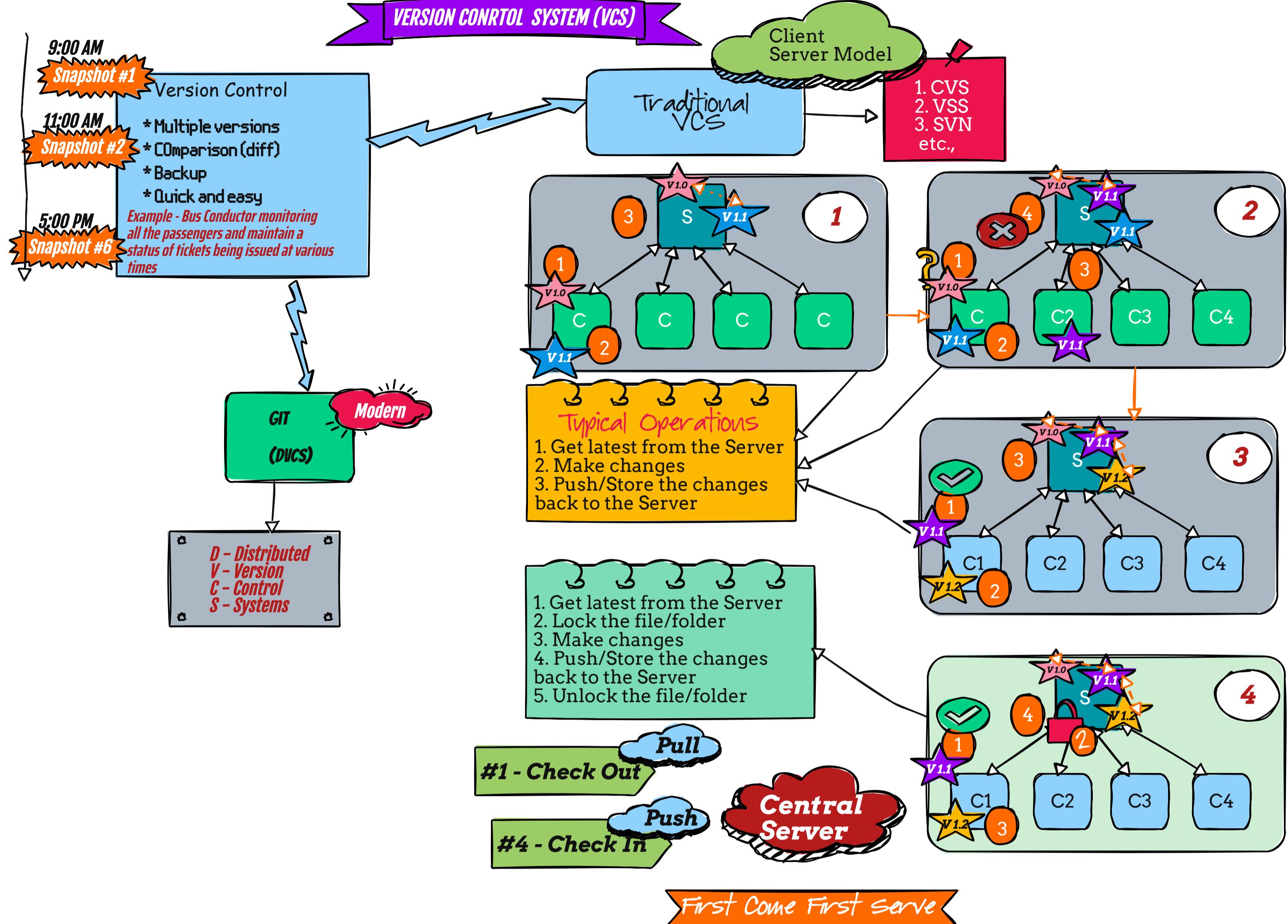




SQL - Primary, Foreign Keys



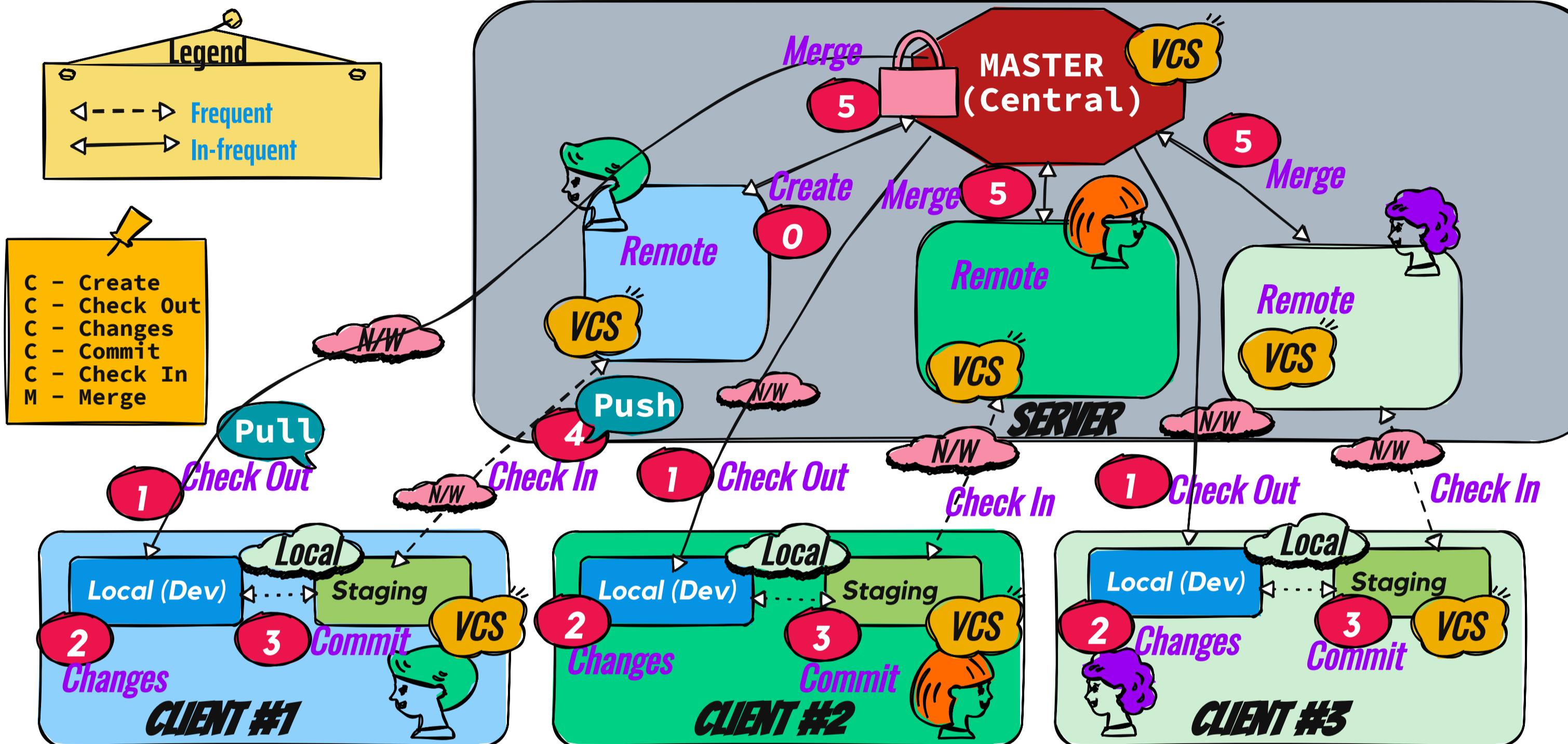
VERSION CONTROL SYSTEM (VCS)



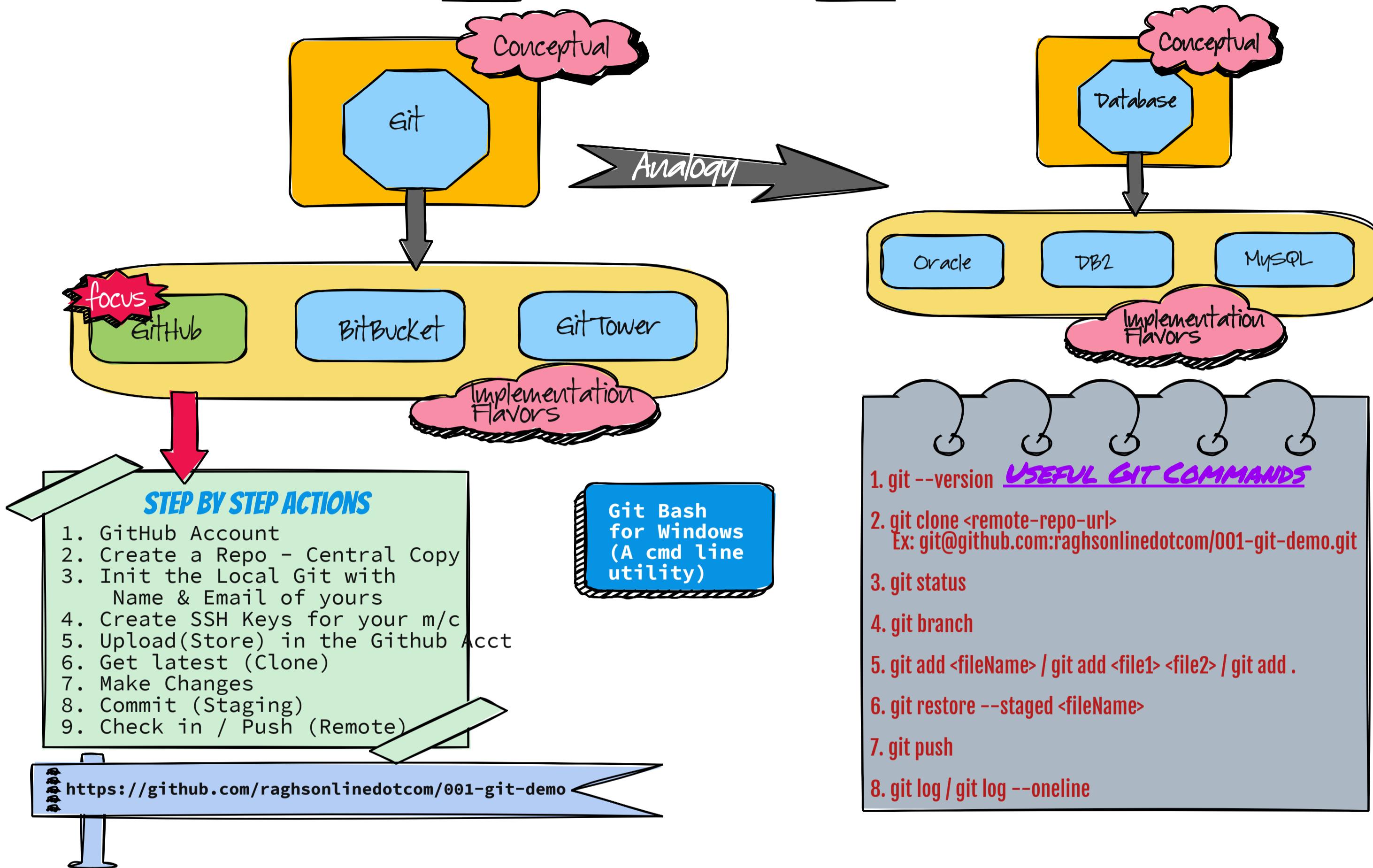
D - Distributed
V - Version
C - Control
S - Systems

git - DVCS

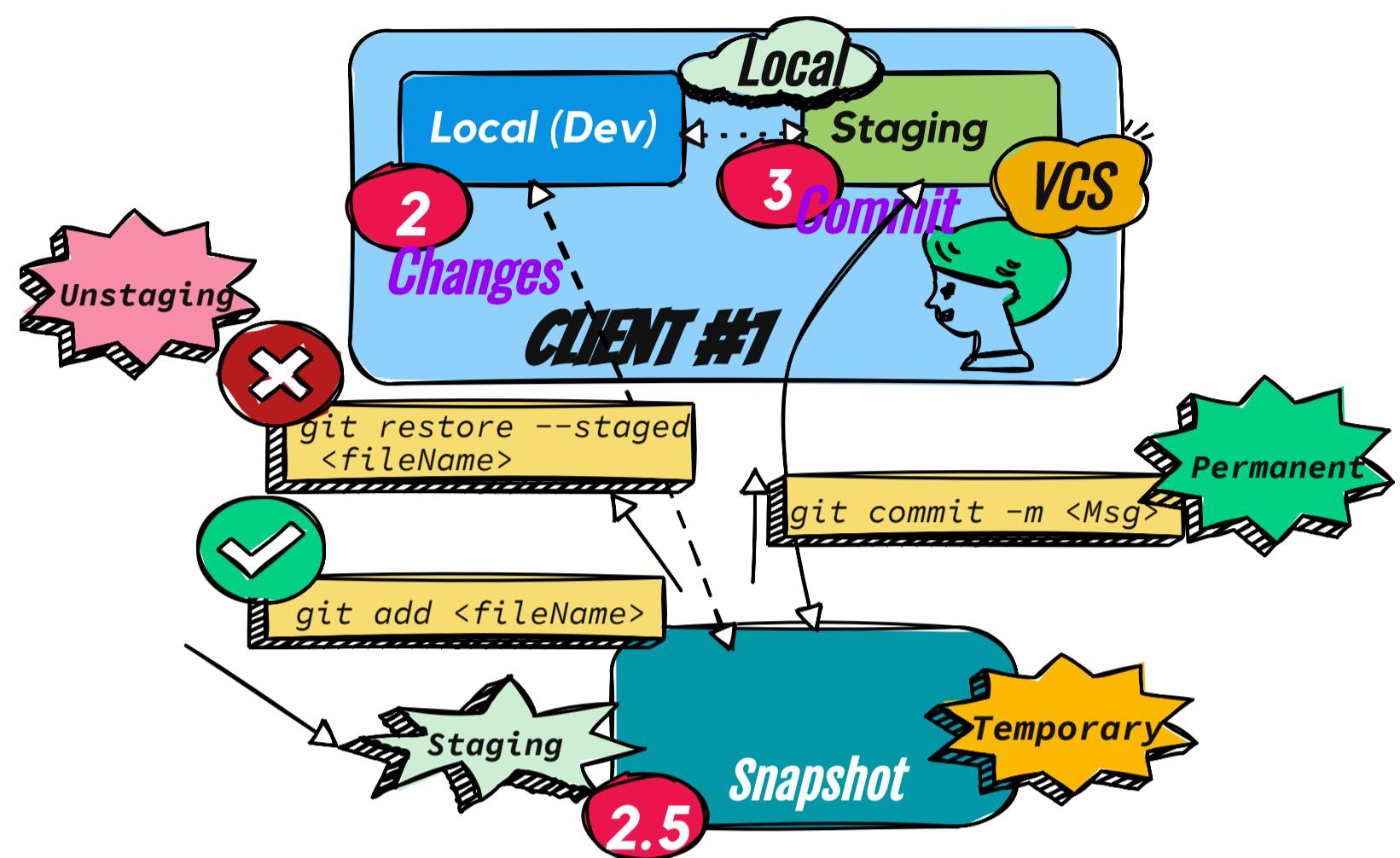
Made with ❤️
Using SketchWow
by itsraghz
09.Nov.2022



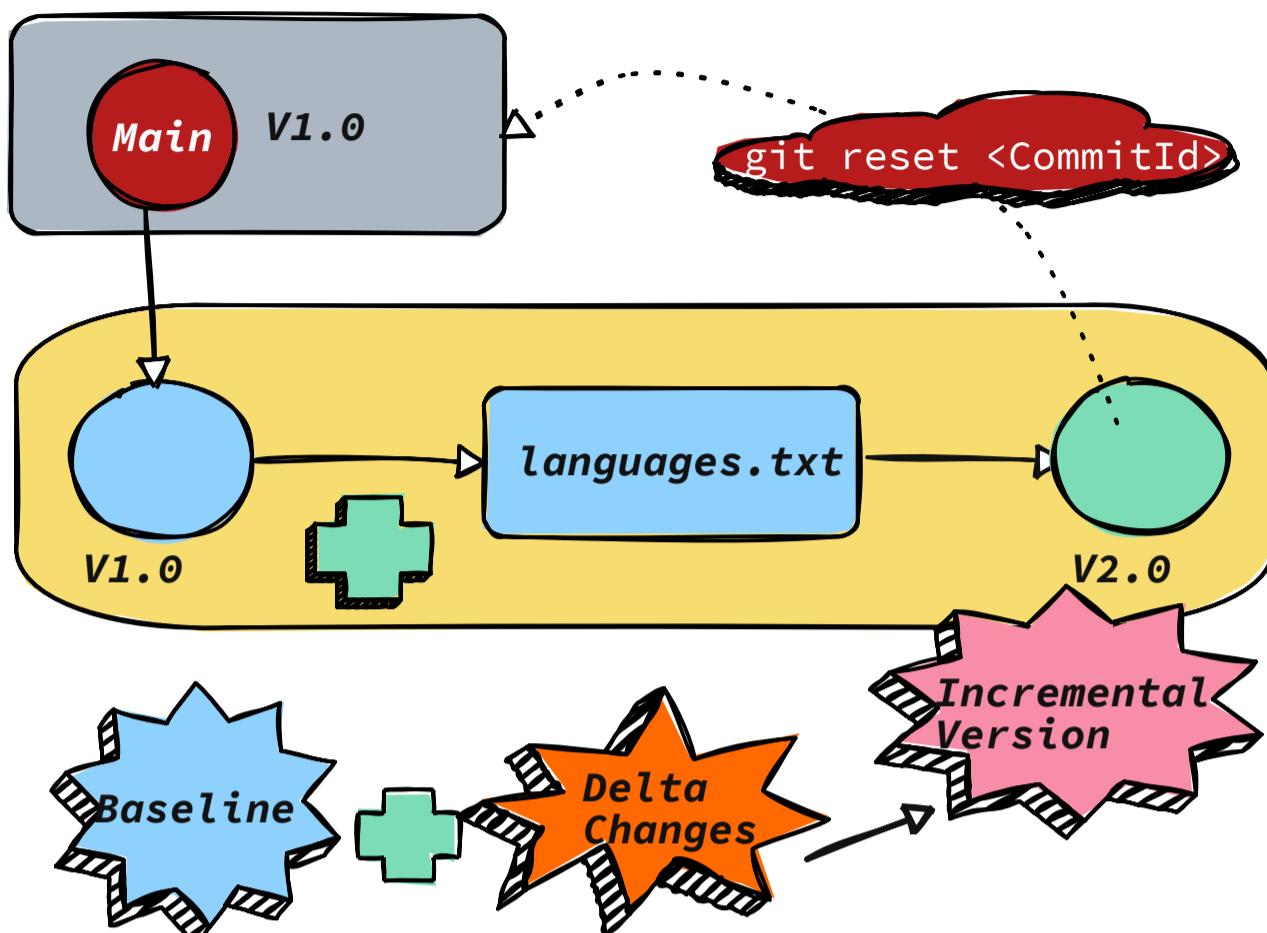
Git & Flavors, Git In Action



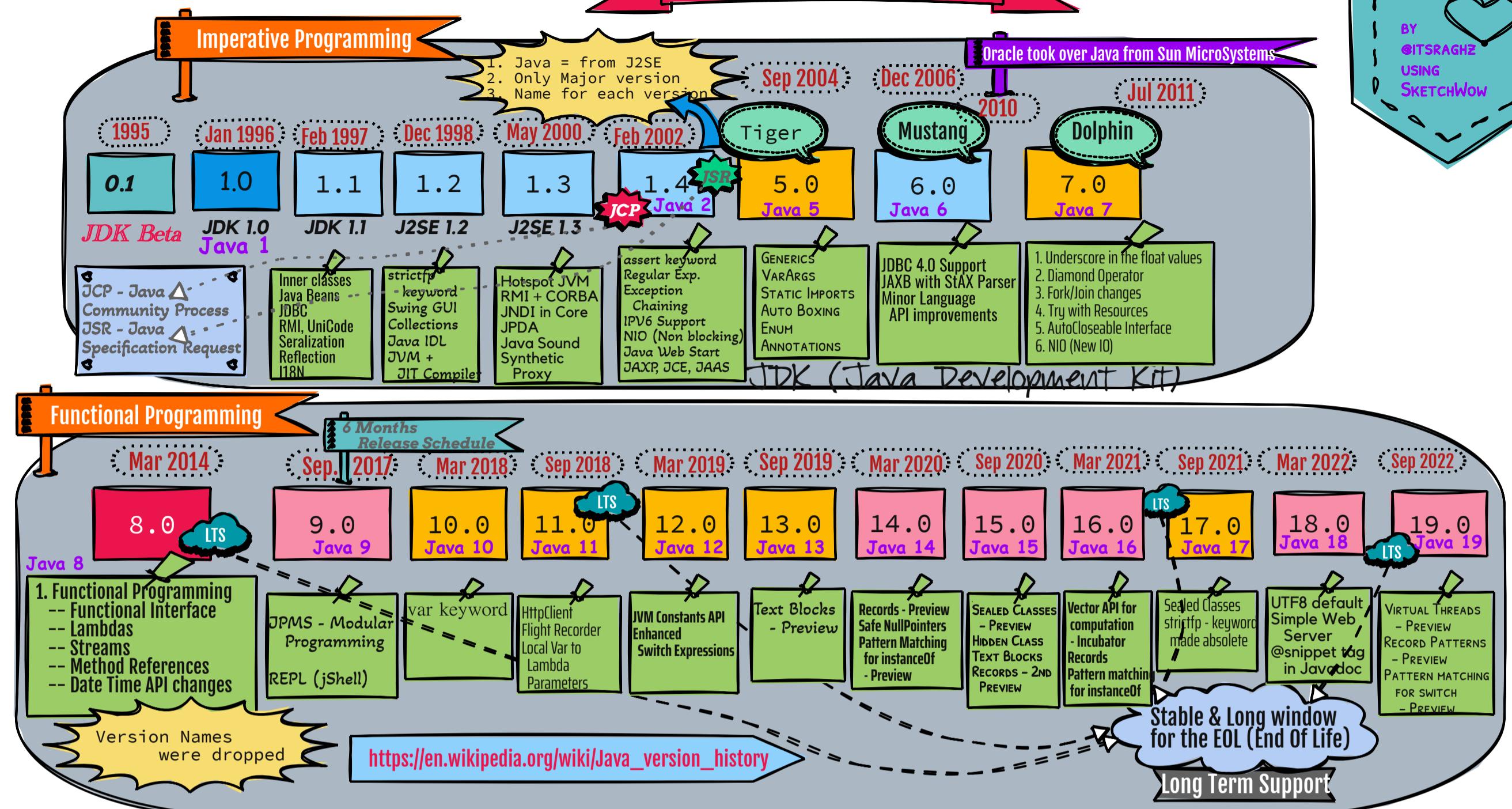
Git Local - Deep Dive



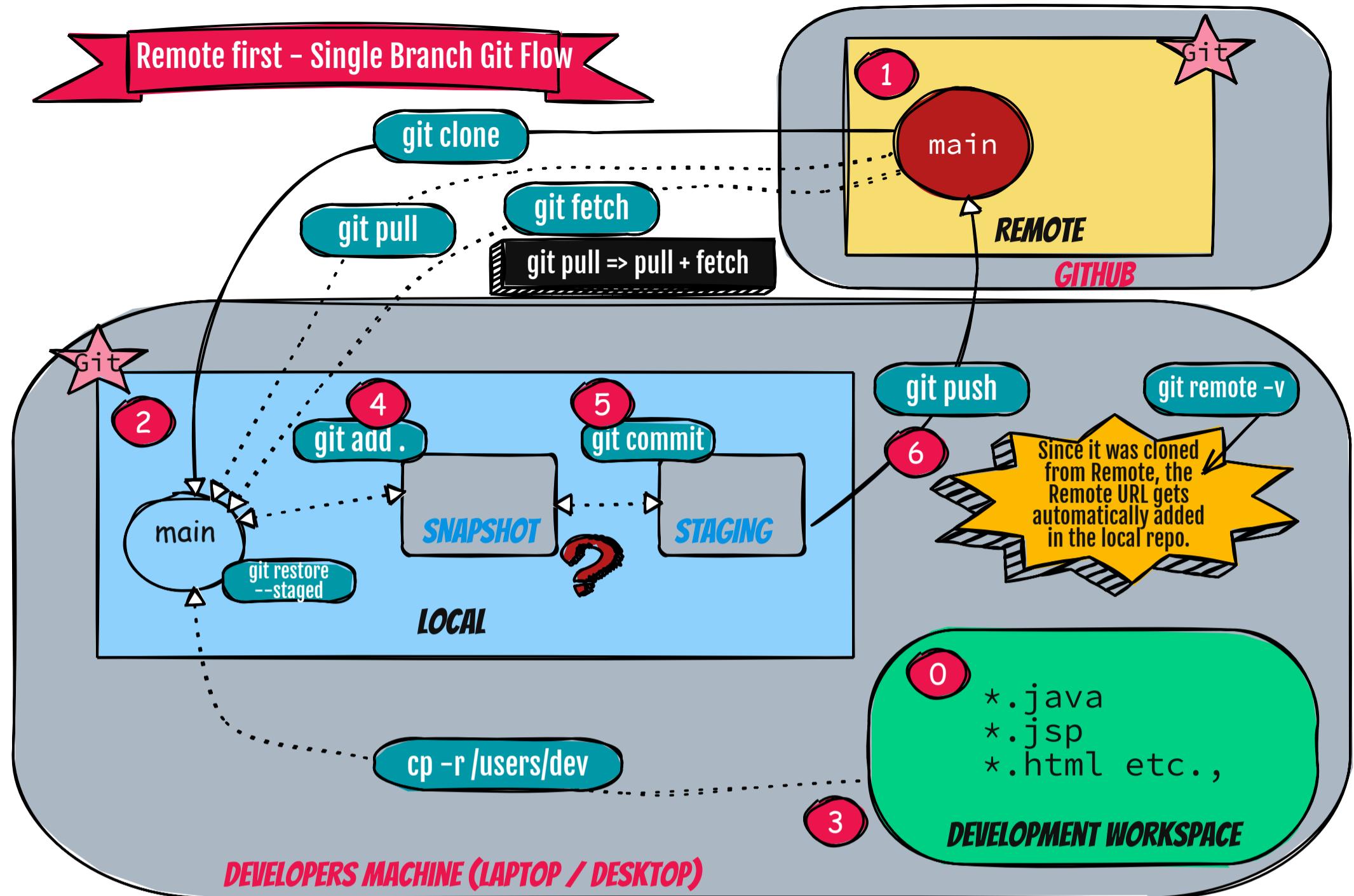
Git Incremental Delta



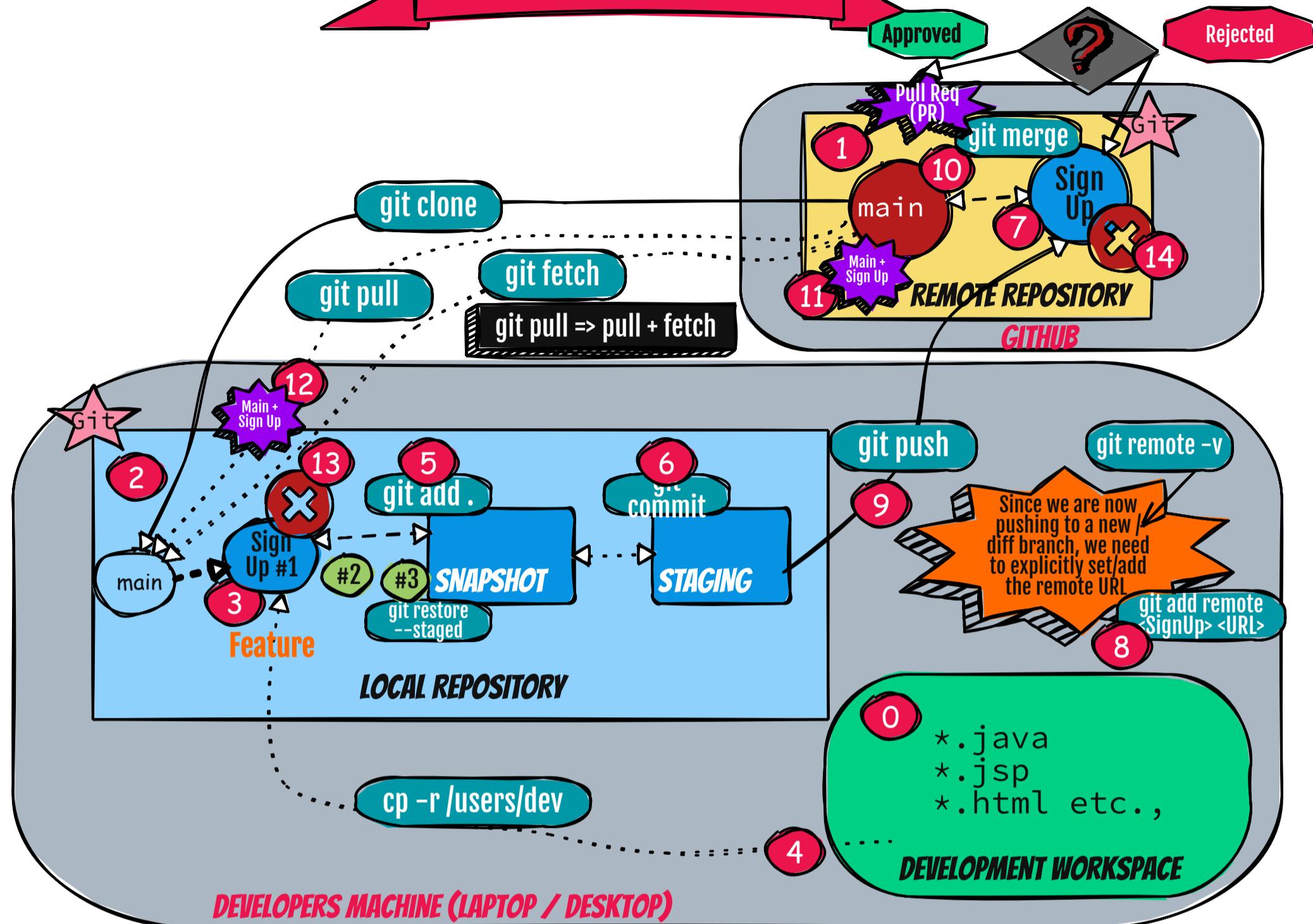
Java Version History



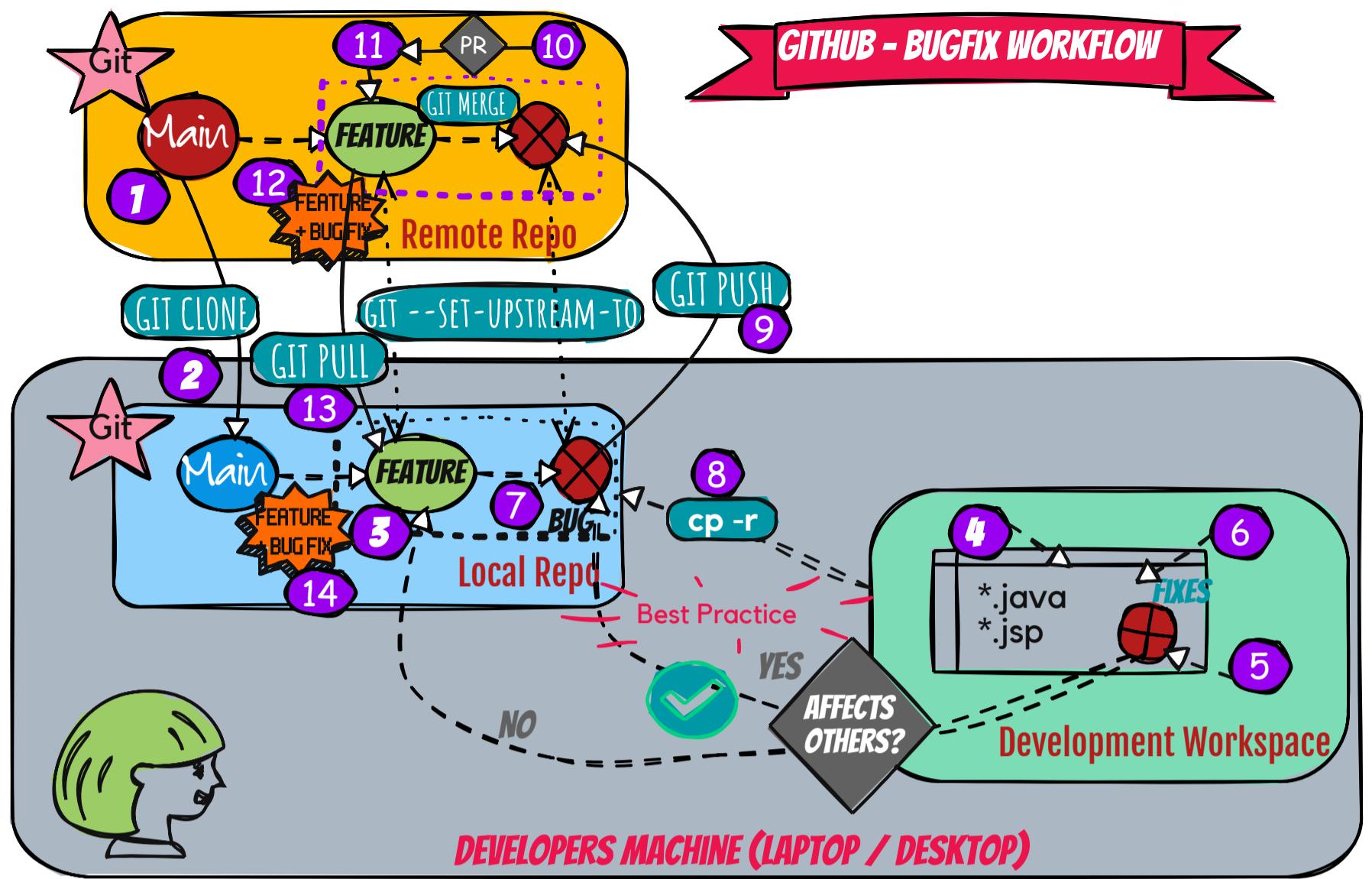
Remote first - Single Branch Git Flow

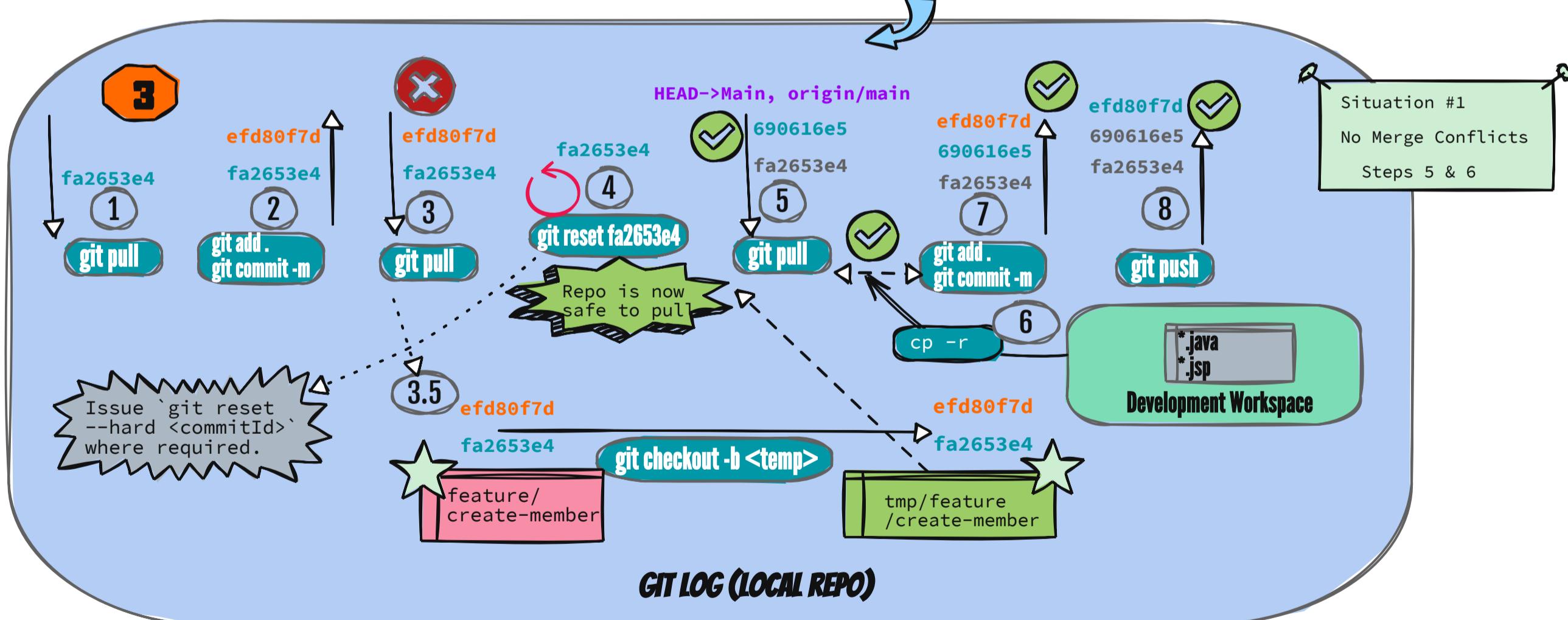
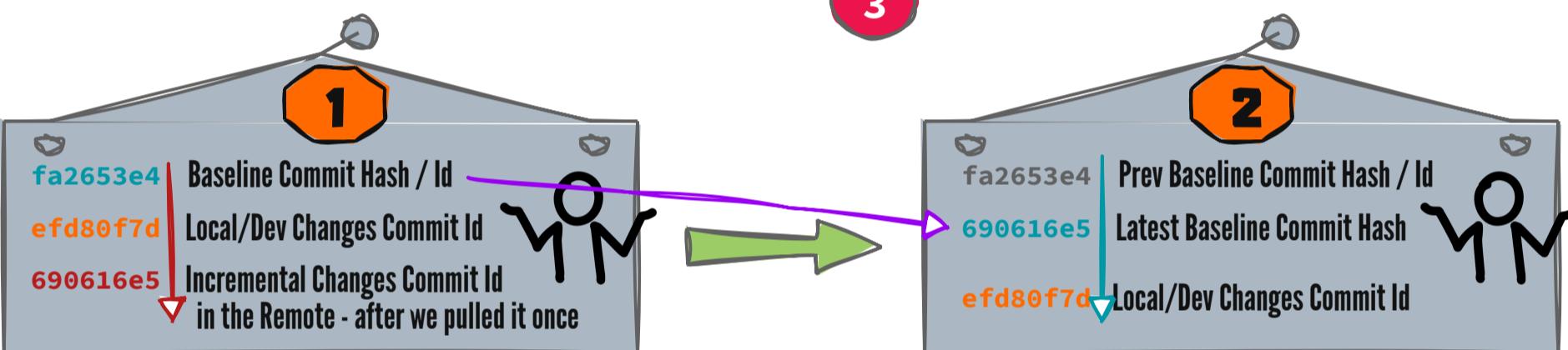
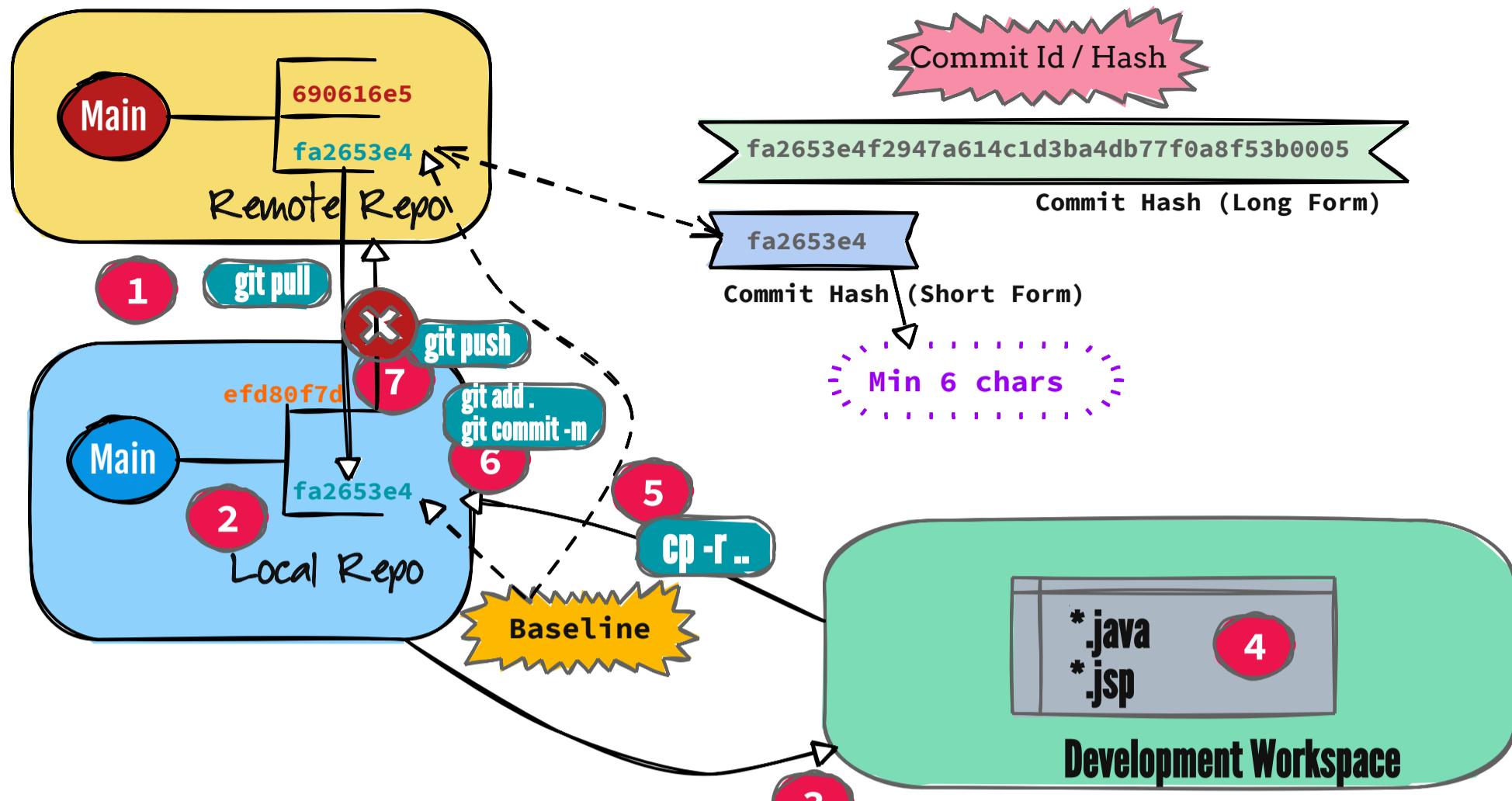


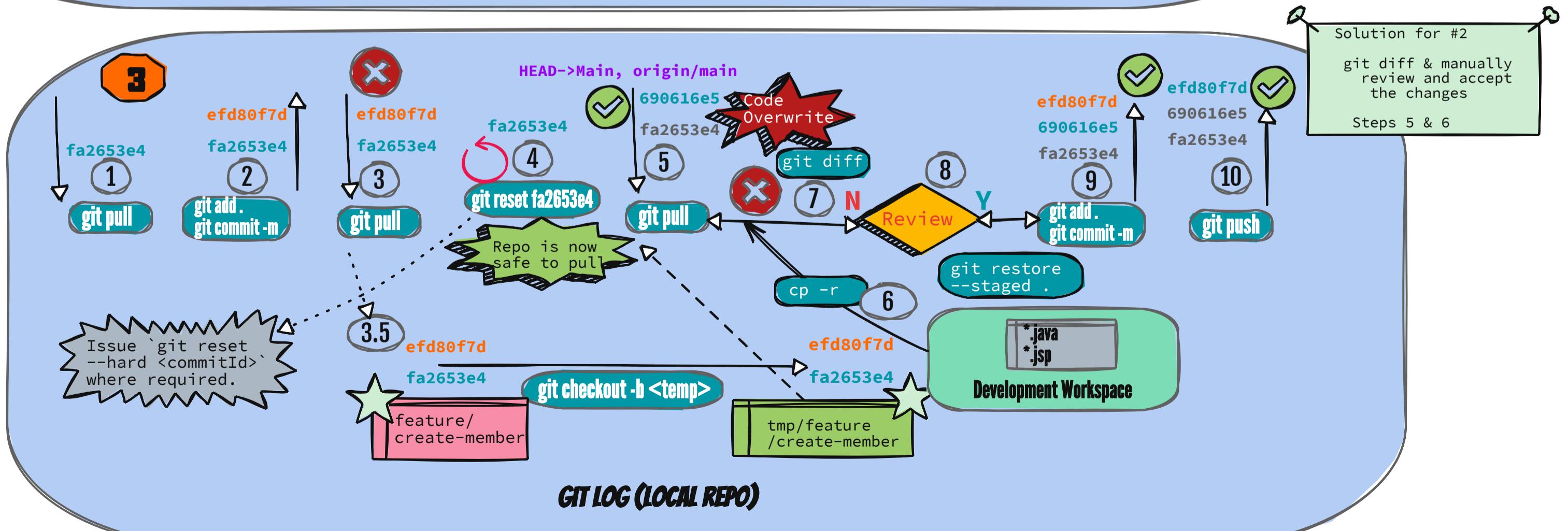
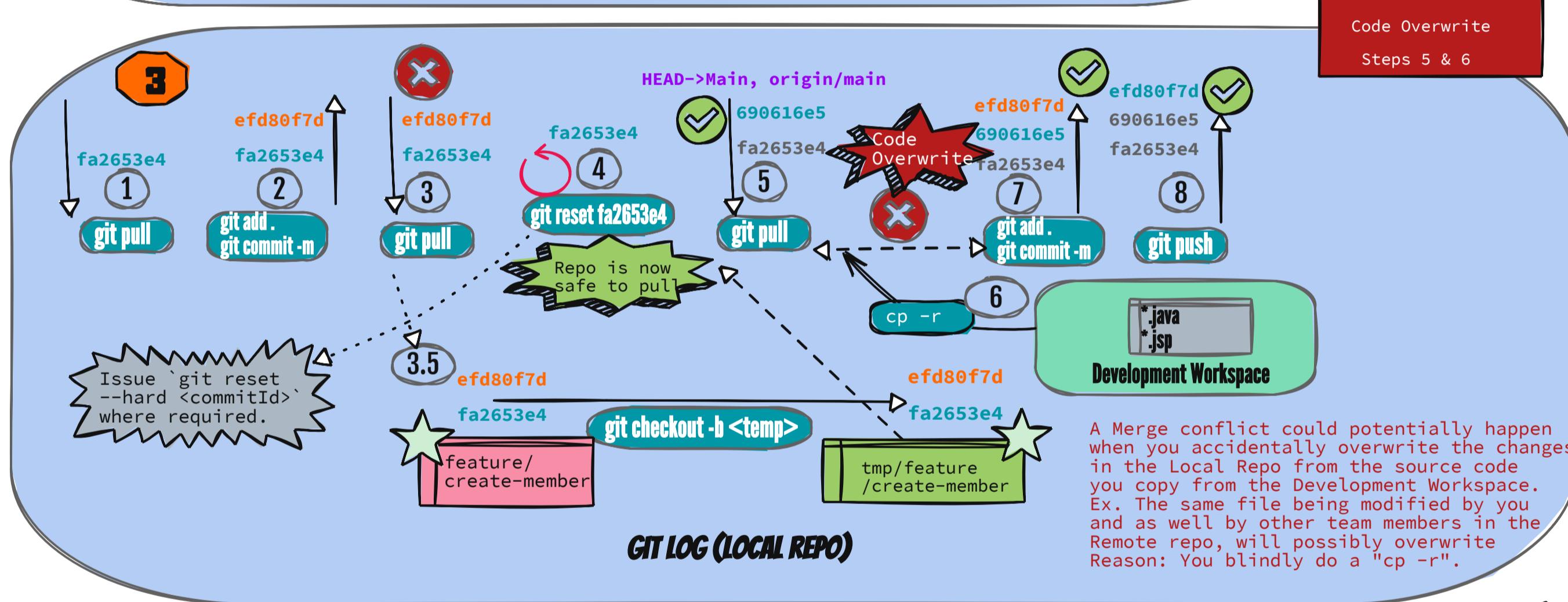
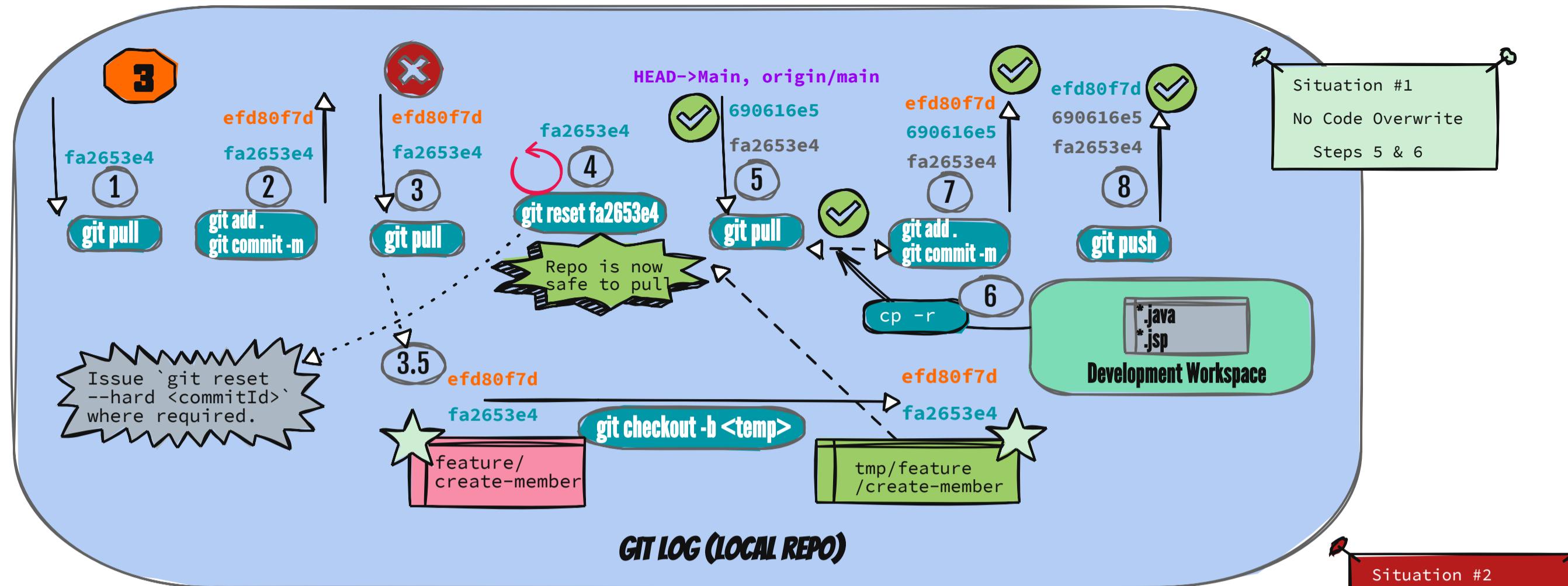
Remote first-Feature Branch- Git Flow

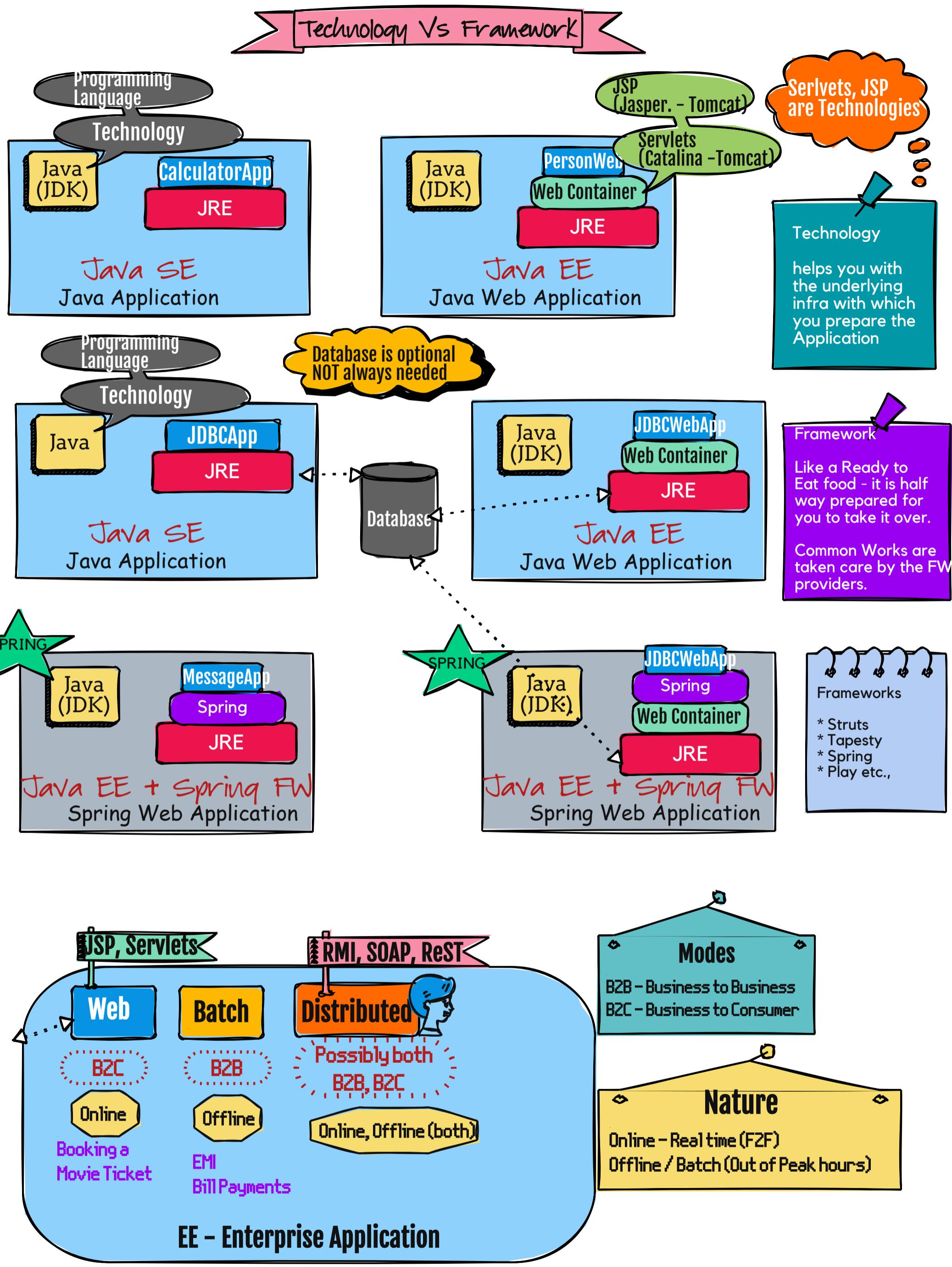


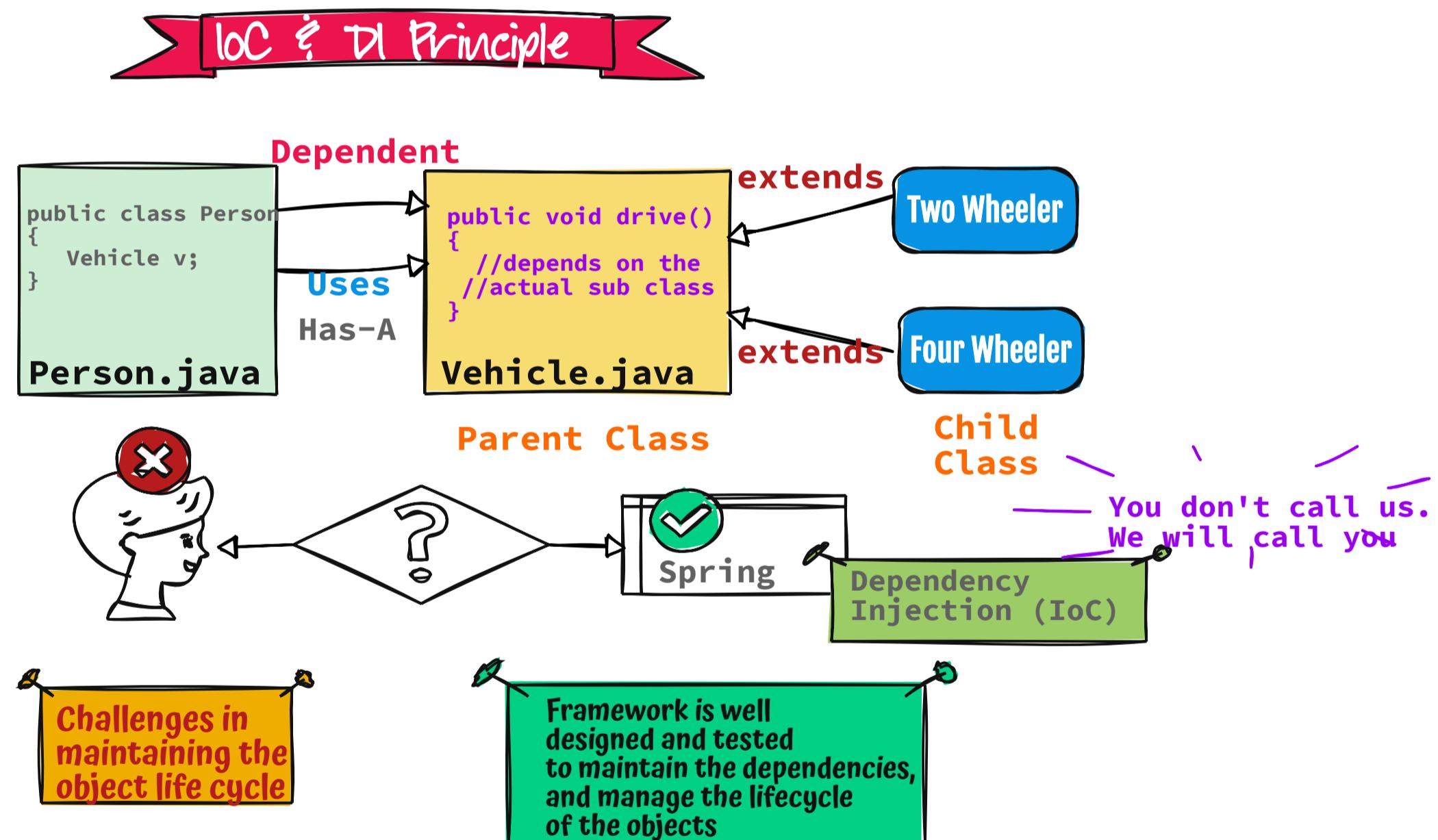
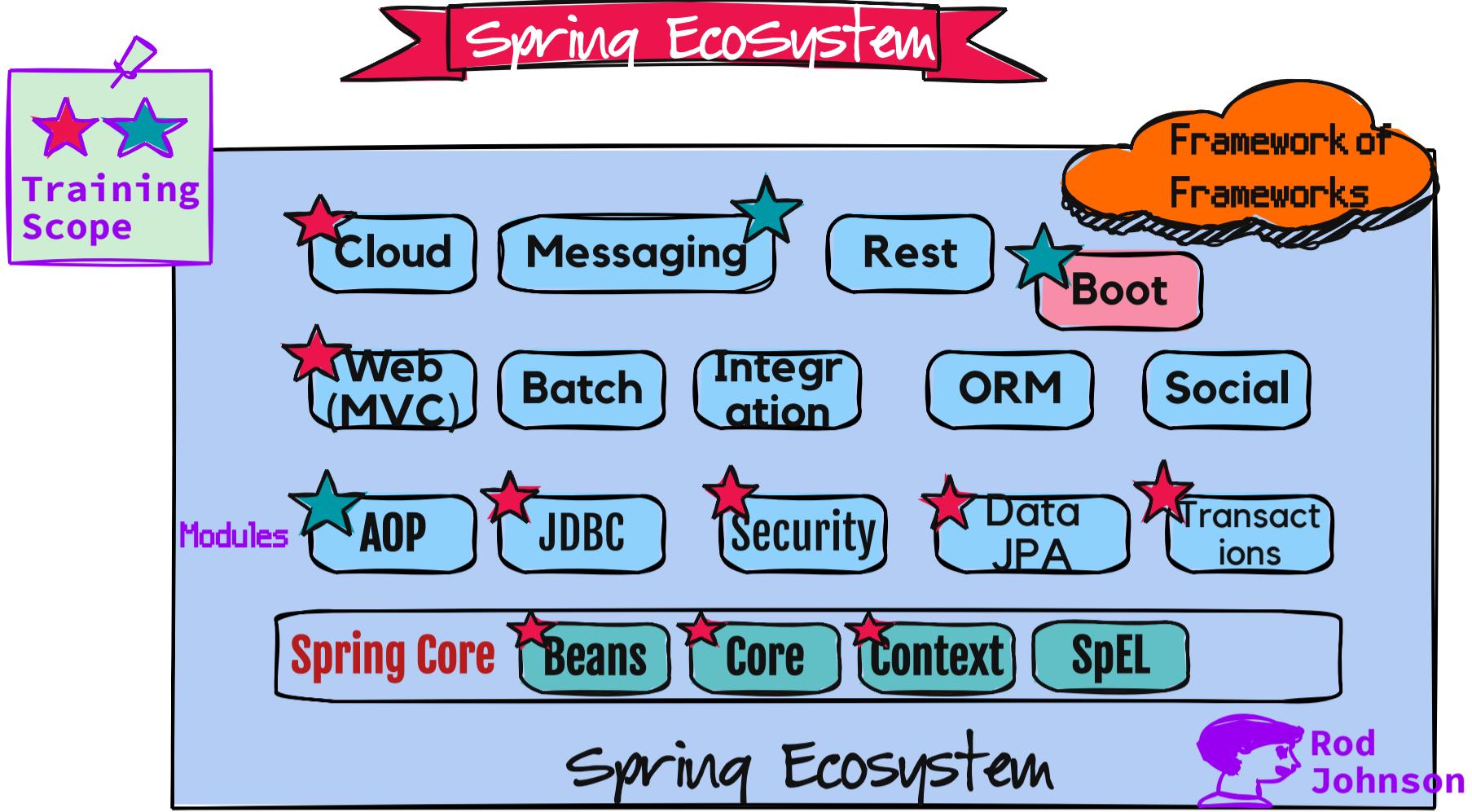
GITHUB - BUGFIX WORKFLOW



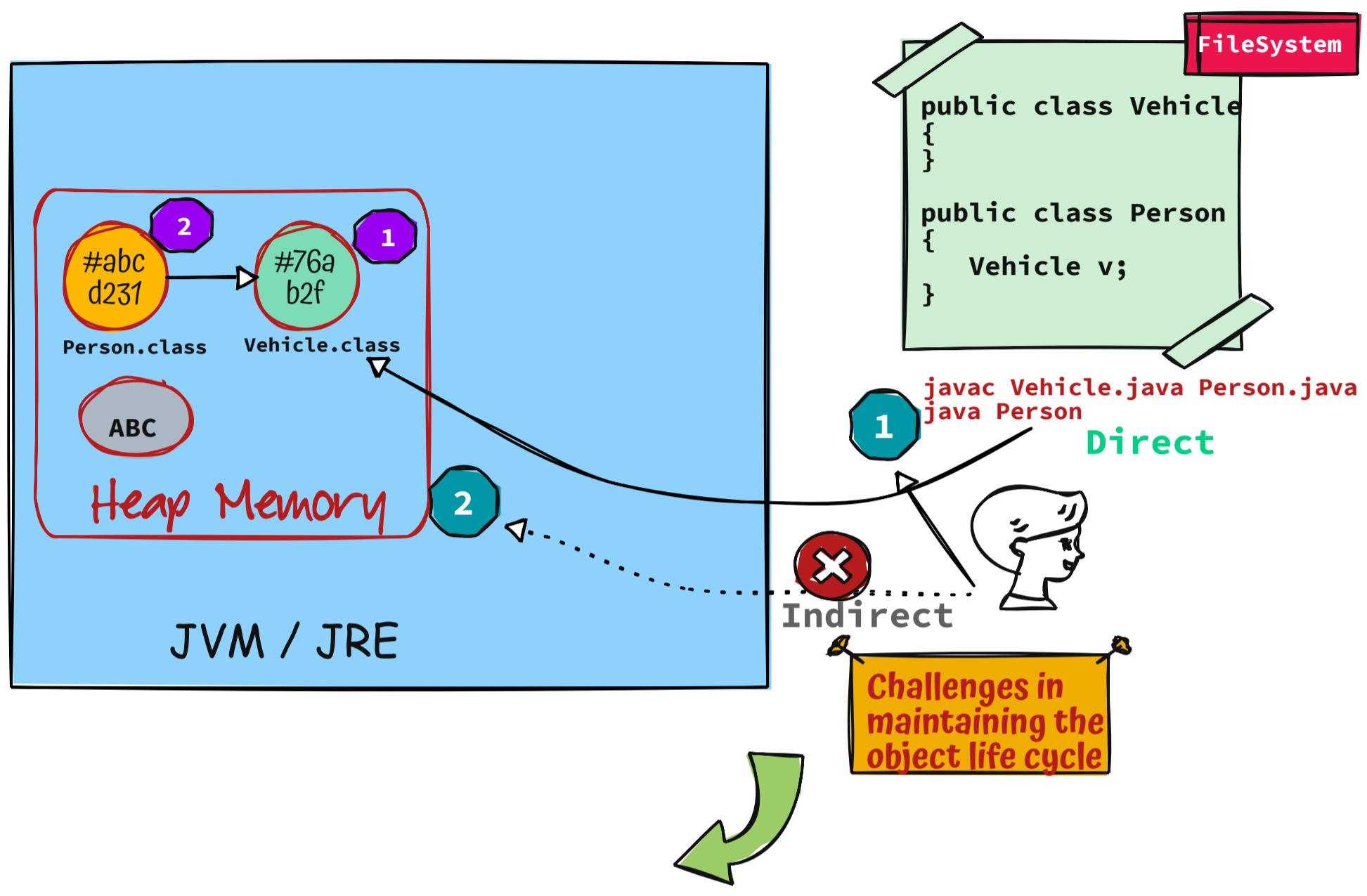




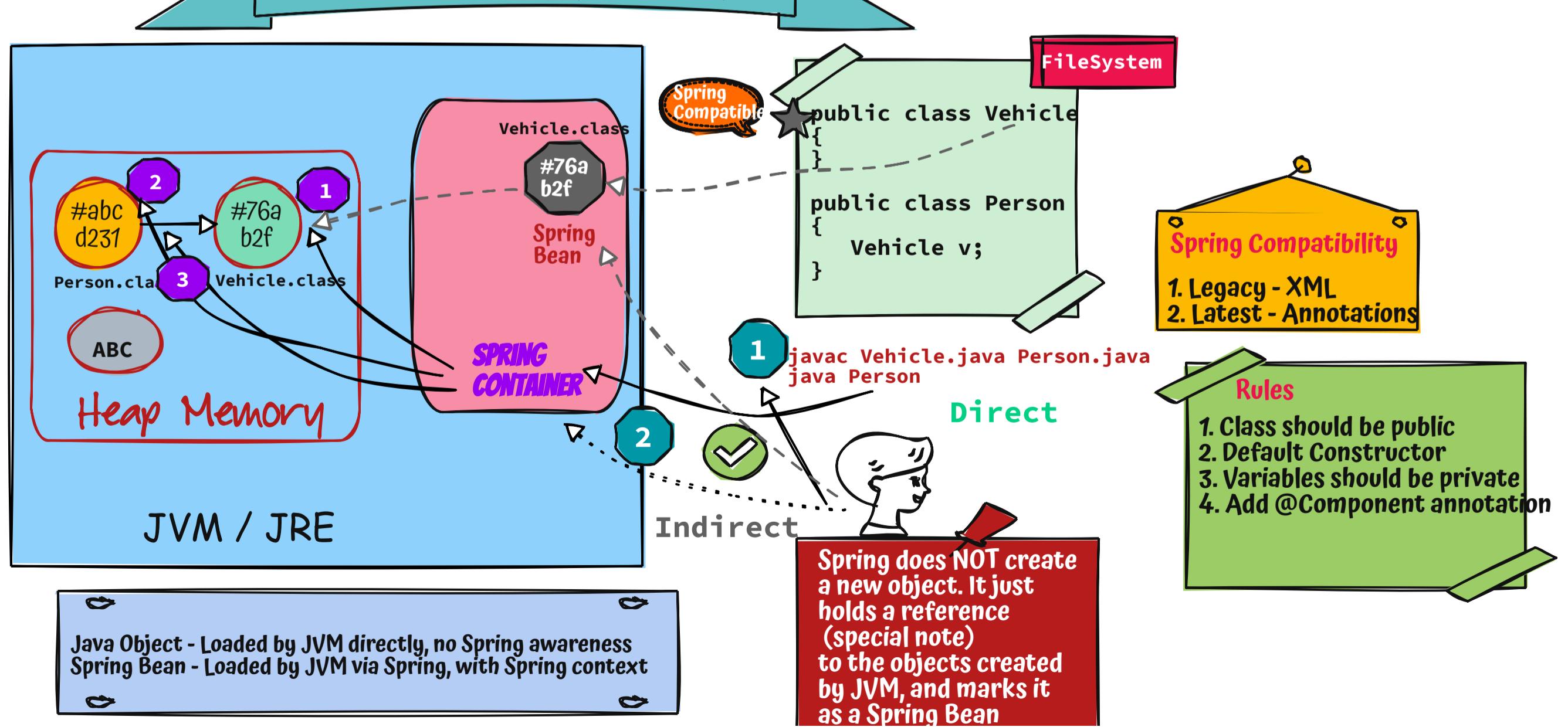




JAVA EXECUTION AND OBJECT LOADING IN JVM (HEAP)



JAVA EXECUTION AND OBJECT LOADING IN JIM (HEAP) VIA SPRING CONTEXT (SPRING BEANS)



Servlet Filters

