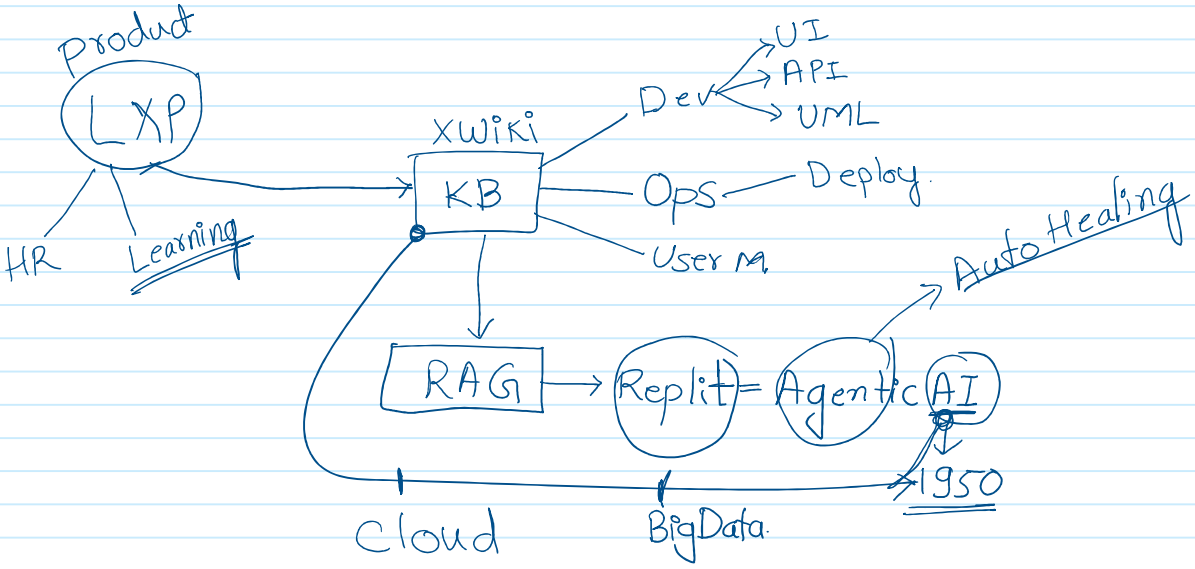
02.Xwiki Advance

20 June 2025 12:30 PM

1] Start XWiki Server

2] https// xwiki:8080/



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XWiki Development Model

① Pages → KB

→ ② Extensions (App^n, Components, Macros)

→ (3) Scripts

→ Server = Java (Servlet)

→ Client = Velocity, Macros, Groovy
JavaScript,

Velocity → page Render. { Templating Language

JavaScript → Front End Interactivity.

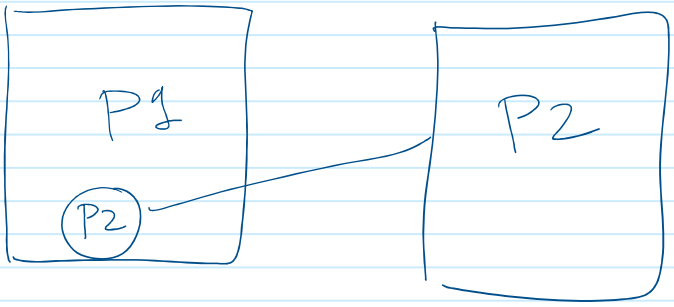
Page

Heading { = H1
= = H2

Bullet point * Item 1

Bold ** Content **

Backtick `



{{toc/}}

{{toc/}} → No param.

Content

{{toc/}}

= Section 1 =

== Subsection 1.1 ==

=== Sub-subsection 1.1.1 ===

= Section 2 =

== Subsection 2.1 ==

{{toc start="2" depth="2" numbered="true"/}}

= Section A =

== Subsection A.1 ==

=== Sub-subsection A.1.1 ===

== Subsection A.2 ==

= Section B =

== Subsection B.1 ==

Toc

TOC
- Macro 2.1
- Self Closing {{ toc /}}
  - Headings = == ===
  - Default
    - start = 1
    - depth = 3
    } Num
    - numbered = true / False.

{{toc start="1" depth="3" numbered="false" title="On This Page" class="my-custom-toc"/}}

= Overview =

== Objective ==

=== Details ===

= Features =

== Feature 1 ==

== Feature 2 ==

CSS

{{toc}}
start=1
depth=3
numbered=true
title="Contents"
{{/toc}}

} Block Macr

= Main Topic =

== Background ==

=== Context ===

== Purpose ==

= Additional Info =

== Notes ==

Groovy =

- Dynamic Content API
- Customization.
- Embedded

{{ groovy }}

=>

{{/groovy}}

- Users, Pages,
- Debugging.

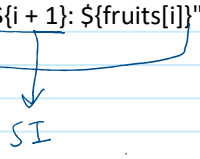
```
{{groovy}}
    println("Hello, World from Groovy in XWiki!")
{{/groovy}}
```

```
{{groovy}}

def greeting = "Hello, XWiki!"  // Groovy's dynamic typing
def number = 42  // Integer
def isActive = true  // Boolean

println(greeting)
println("The number is: ${number}")
println("Active status: ${isActive}")

{{/groovy}}
```

```
{{groovy}}
def age = 25

if (age < 18) {
  println("You are a minor.")
} else if (age >= 18 && age < 65) {
  println("You are an adult.")
} else {
```

```
    println("You are a senior citizen.")
}
{{/groovy}}
```

```
def fruits = ["Apple", "Banana", "Cherry"]

for( int i=0; i < fruits.size(); i++) {
    println("Fruit ${i + 1}: ${fruits[i]}")
}
```



```
{{groovy}}
def numbers = [10, 20, 30, 40, 50]

println("First number: ${numbers[0]}")  // Accessing first element

// Loop through the list and print each element
numbers.each { n ->
    println("Number: ${n}")
}
{{/groovy}}
```

```
{{groovy}}
def user = [
    "name": "Alice",
    "age": 25,
    "city": "XWiki City"
]

println("User's Name: ${user['name']}")
println("User's Age: ${user['age']}")
println("User's City: ${user['city']}")
{{/groovy}}
```

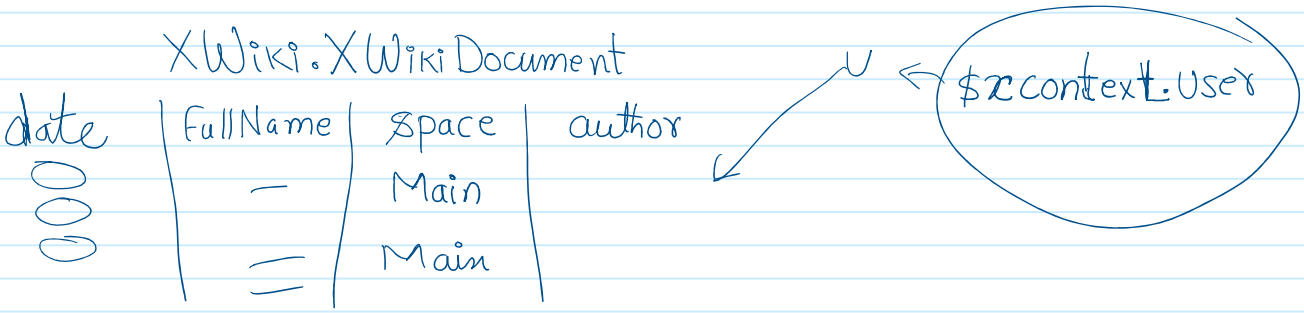
```
{{groovy}}
def sumOfNumbers(numbers) {
    def sum = 0
    numbers.each { num ->
        sum += num
    }
    return sum
}

// Create an array of numbers
```

```
def numbers = [10, 20, 30, 40, 50]

// Call the function and print the result
def total = sumOfNumbers(numbers)
println("The sum of the numbers is: ${total}")
{{/groovy}}



{{groovy}}
def sentence = "Groovy is awesome!"

// Convert to uppercase
def upperCase = sentence.toUpperCase()
println("Uppercase: ${upperCase}")

// Replace text in the string
def replaced = sentence.replace("awesome", "cool")
println("Replaced sentence: ${replaced}")

// Get the length of the string
println("Sentence length: ${sentence.length()}")
{{/groovy}}
```

1. **Variables**: Dynamically typed variables, easy to declare and use.
2. **Conditionals**: Use if, else if, and else for decision-making.
3. **Loops**: Classic for and each for iterating over collections.
4. **Functions**: Define reusable blocks of code with def.
5. **Arrays/Lists**: Use dynamic lists that can hold multiple values.
6. **Maps**: Store key-value pairs in Groovy.
7. **String Manipulation**: Easily manipulate and format strings.

http://nel004:8080/xwiki/bin/view/ProjectTracker/

JavaScript ⟶ XSS Vuln.



#set($currentUser = $xcontext.user)

https://www.xwiki.org/xwiki/bin/view/Documentation/DevGuide/DatabaseSchema/

List 5 Most Recently Modified Pages

order by doc.date desc sorts pages with newest first.

.setLimit(5) limits results to 5 pages.

Loops over results and creates links to pages.

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