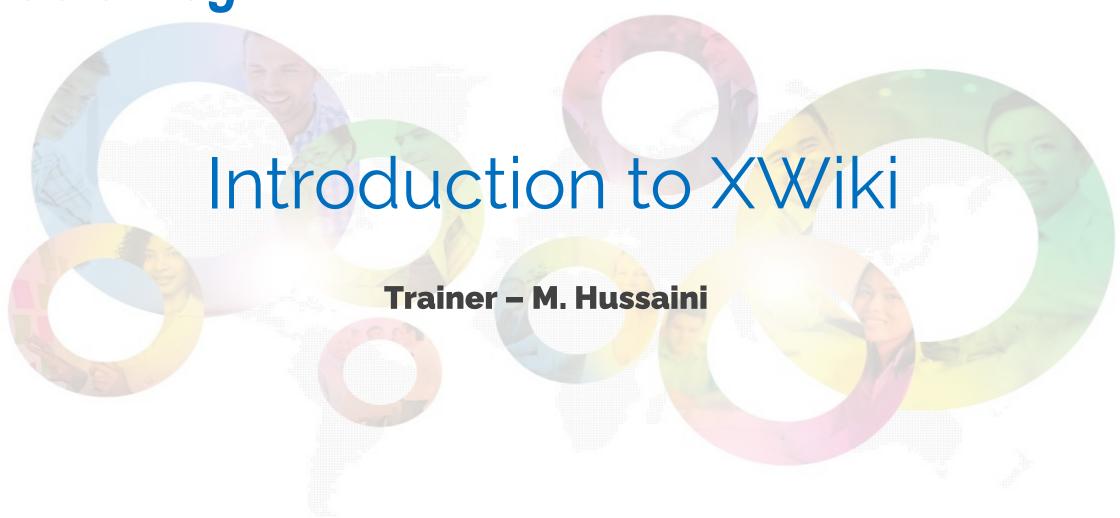


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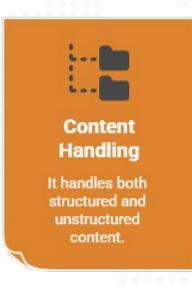


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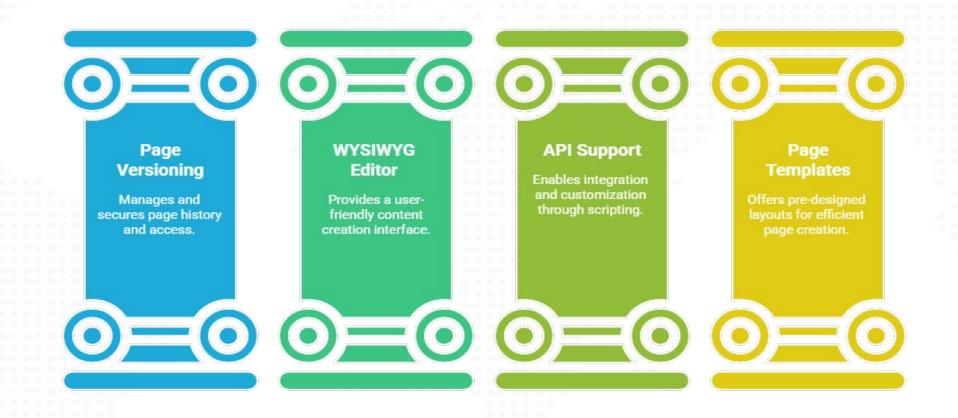
## What is XWiki?







## Core Features



## Use Cases in Organizations

#### Collaborative Documentation

Tools and processes for team-based document creation





## Comparison with Other Wikis





#### This Wiki

Supports structured data and is extensible.

#### Confluence

Limited extensibility compared to others.

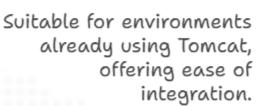
#### MediaWiki

Lacks structured data support.

Limited

## Installation Options

#### **WAR Deployment**



#### MySQL/PostgreSQL

Offers robust database solutions for production environments.







#### Docker and Debian Packages

Provides flexibility and containerization benefits, ideal for scalable deployments.



#### HSQLDB

Best for development and testing due to its simplicity and ease of setup.



# Installing and Configuring XWiki

## **User & Permission Configuration**

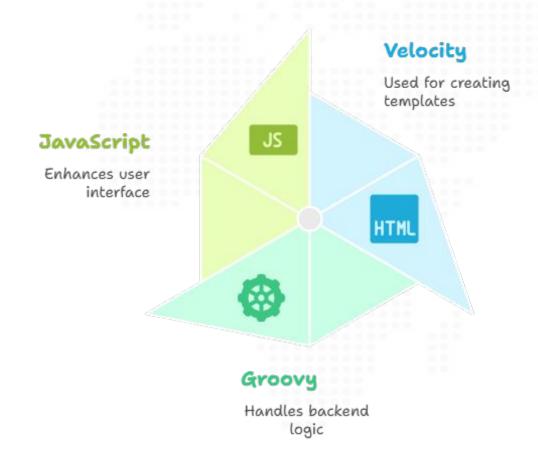


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## Understanding XWiki Development Model

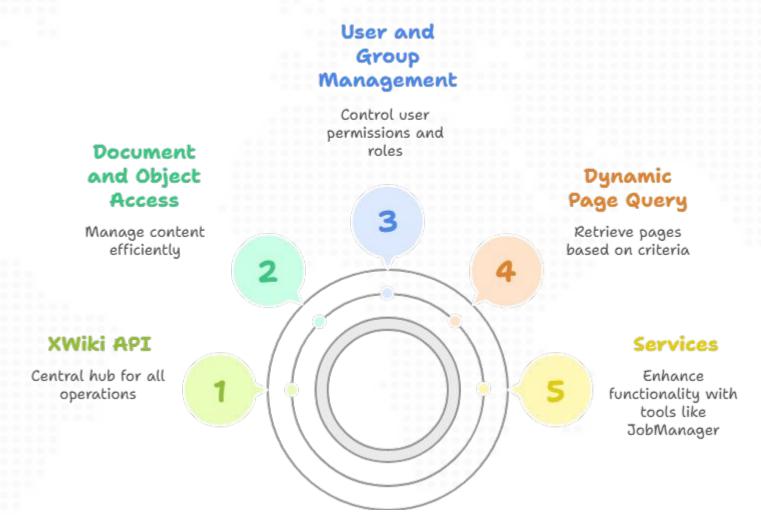


## Supported Scripting Languages



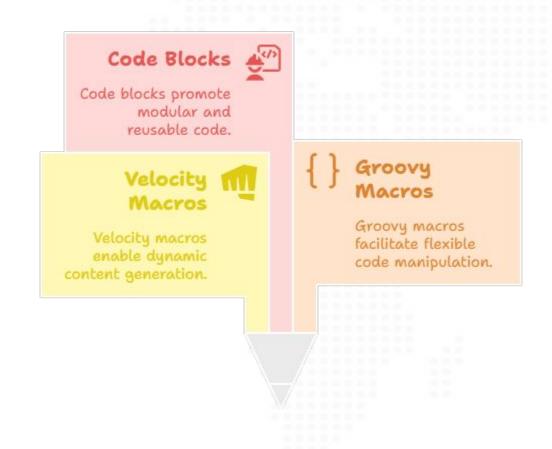
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## XWiki API Overview

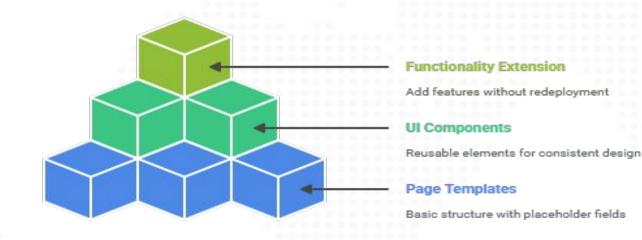


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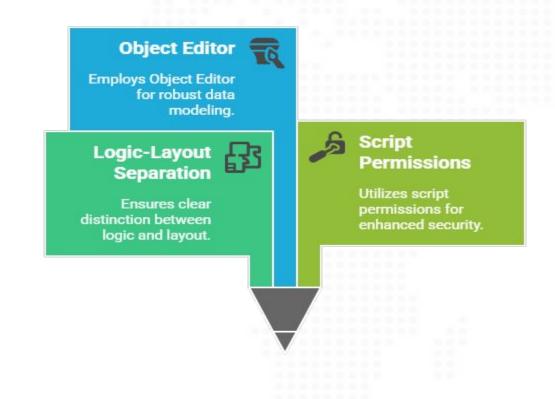
## Macros & Reusability



## Extend functionality without redeploying



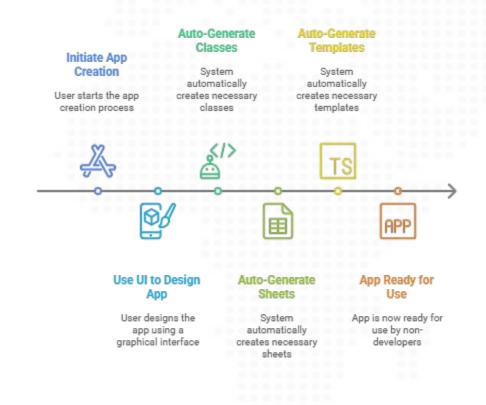
## **Good Practices**



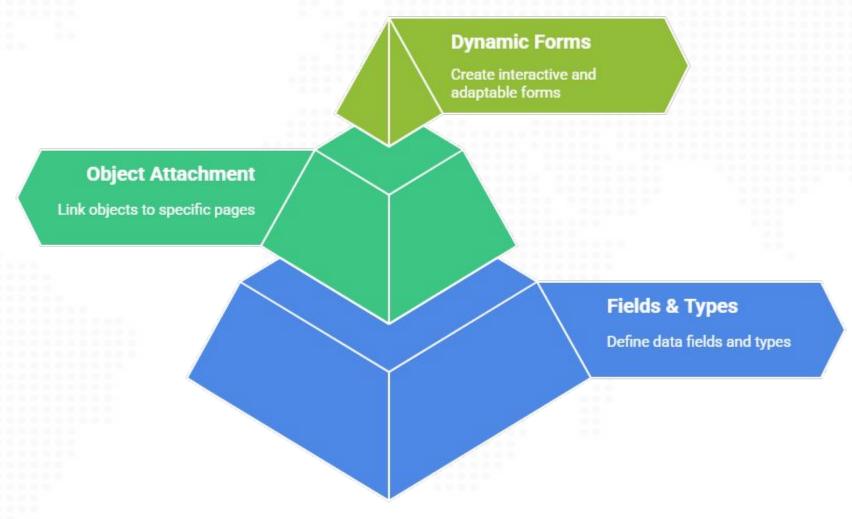


# Developing Custom XWiki Applications

## App Within Minutes (AWM)



## Classes and Objects



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## Dashboards and Views



LiveTables

Interactive tables for filtering data

Charts and Graphs

Visual representations of data trends

Macros and Scripting

Customization tools for advanced users



## Extending XWiki with Plugins and Extensions

## **Extension Manager**



#### **Install Extensions**

Install extensions directly through the user interface.



#### Search Repository

Search for extensions in the official repository.



#### Manage Versions

Manage extension versions and dependencies effectively.

## **Building Custom Extensions**



Registering components for system-wide recognition.

#### Package Pages

Designing pages for intuitive software navigation.

#### Package MT Macros

Bundling macros for efficient software automation.



## Export as

Exporting extensions in a standardized .XAR format.

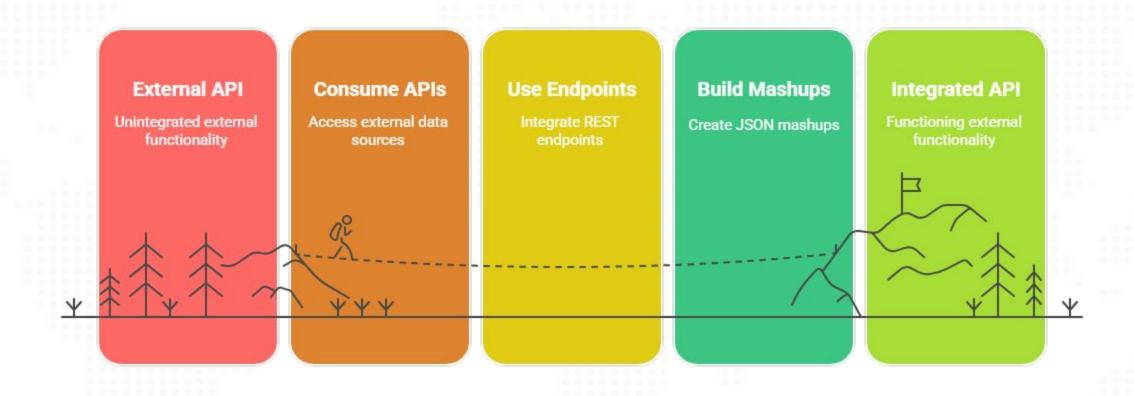


#### Package Apps

Integrating apps for seamless user experience.

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## **REST API Integration**



## Adding Third-party JS Libraries



WebJars

A package manager for web dependencies

Chart.js

A library for creating charts and graphs

D3.js

A library for manipulating the DOM with data

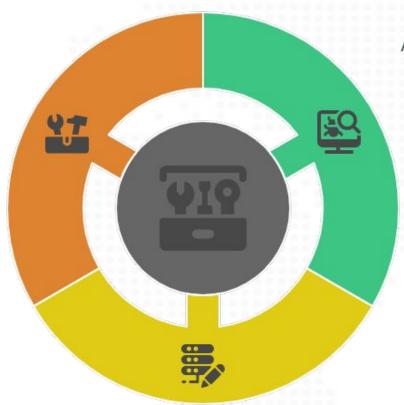
Template Integrity

Maintaining the structure of core templates

## Developer Tools

#### **Admin Tools**

Offers tools to manage cache and logs for system maintenance.



#### **Debug Panel**

Allows developers to inspect and debug code in real-time.

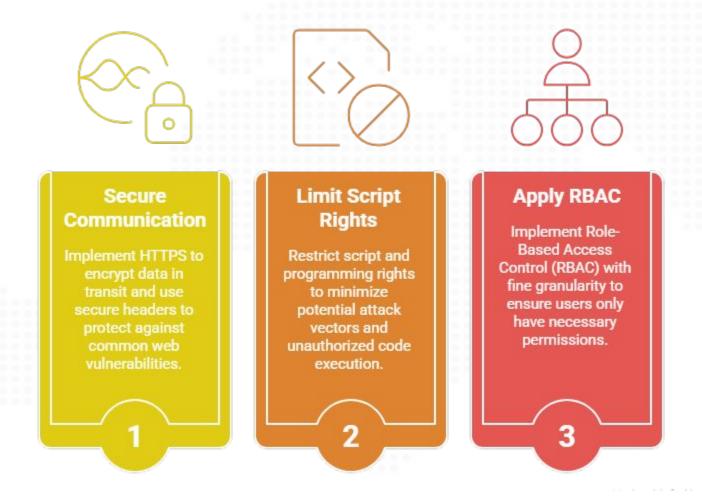
#### **Script Editor**

Provides a platform to write and edit scripts for XWiki.

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# Security and Performance Optimization

## **Security Best Practices**



## Performance & Backup

## **Optimize Queries** Ensures data recovery in Improves database efficiency and speed. case of failures.

#### **Schedule Backups**

#### **Implement Caching**

Enhances performance by storing frequently accessed data.

#### Manage **Attachments**

Reduces storage and improves access speed.



## Advanced Integration and Automation

## **External Integrations**

#### LDAP/Active Directory

Integrate with LDAP or Active Directory for user authentication and management.

#### **CRM/ERP Linking**

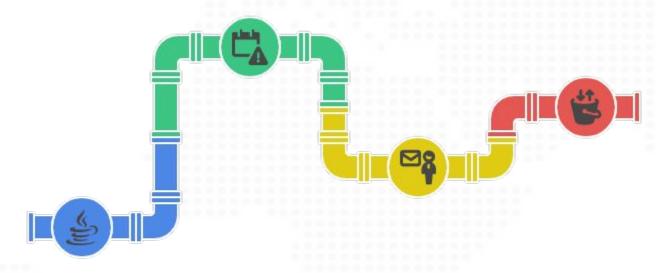
Connect with CRM/ERP systems to synchronize data and streamline workflows.



#### SSO Integration

Enable Single Sign-On using Keycloak or CAS for seamless access.

## Workflow Automation



01

**Groovy Jobs** 

Initiating periodic tasks using Groovy scripts 02

Events and WatchList

Monitoring events and managing watchlists 03

Email Notifications

Sending email notifications based on triggers 04

Triggers

Activating actions based on specific conditions

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## Cloud Deployment



#### Docker Deployment

Utilizing Docker containers for deployment, ensuring consistency.



Database Options

Integration with AWS RDS or GCP Cloud SQL for data storage.



#### CI/CD Pipelines

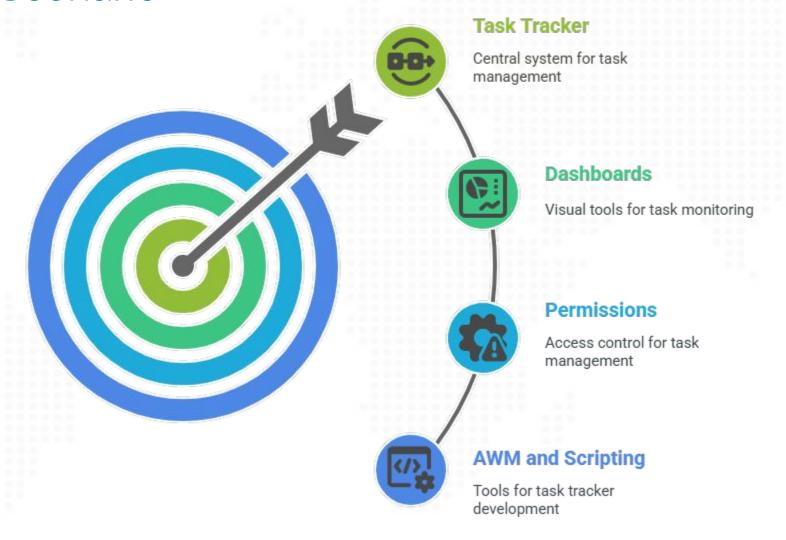
Implementing CI/CD pipelines to automate updates and deployments.



## Practical Workshop

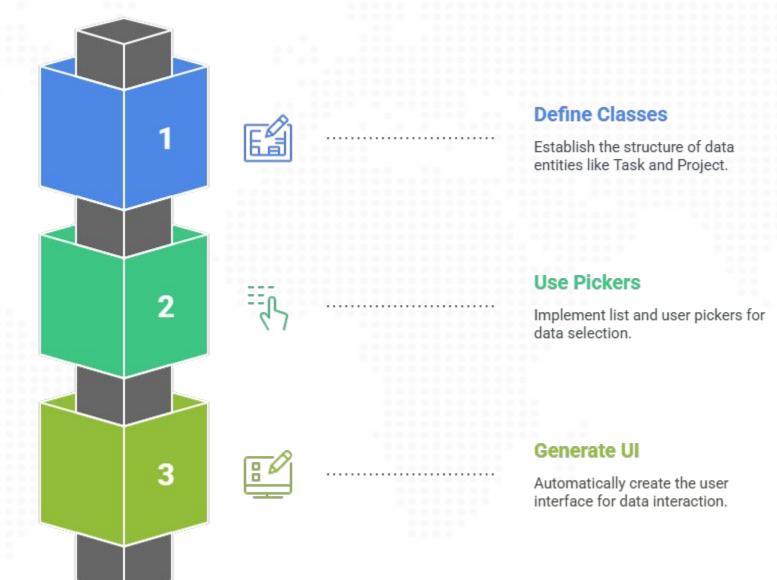


## Real-world Scenario



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## Create the Data Model



### **Enhance with Automation**

#### Manual Task Assignment

Inefficient, error-prone tasking

#### Implement Groovy Script

Automate task assignments

#### Implement JS Validation

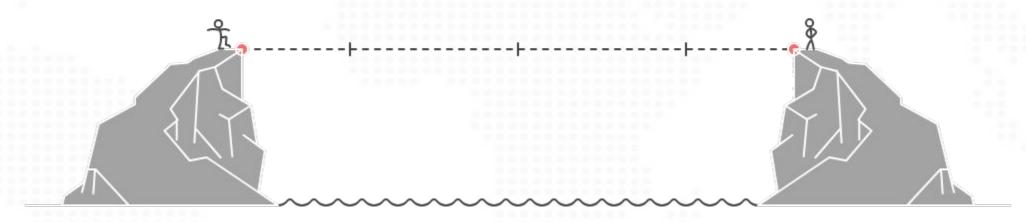
Ensure form data accuracy

#### Integrate API Triggers

Real-time status updates

#### Automated Task Management

Efficient, accurate tasking



## Add Reporting

#### LiveTables

Filterable views using LiveTables for data analysis.



#### Weekly summary

Receive a weekly summary of reports via email updates.

#### **Embed charts**

Embed charts to visually track project or task status.

## Iteration and Feedback

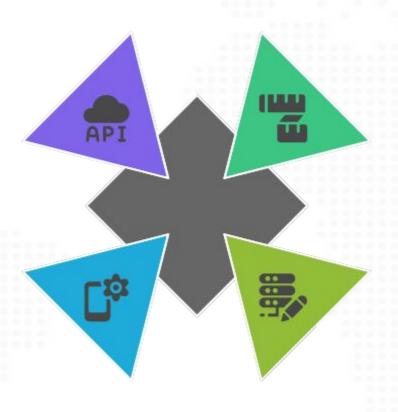




## Summary and Next Steps



## Key Takeaways



Flexibility

XWiki's adaptability to different needs

Scripting

Ability to automate tasks and processes

Custom Apps

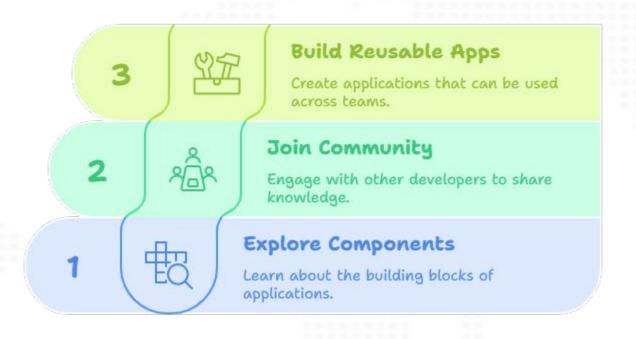
Tailoring solutions to specific requirements

APIs

Integration with other systems and services



## What's Next?





## Thank you