

# Developer Task Sheet: Subscription Management Architecture

## Introduction

We are evaluating a subscription management system for our WooCommerce-based multisite setup. The approach involves separating the storefront(s) from the billing logic to improve cost-effectiveness, security, and scalability.

Your task is to design and describe how you would implement this solution as a Senior WordPress Developer.

## Background Context

- Storefront site(s): Handle product listings and checkout UX. Non-subscription orders are processed normally.
- Billing site: Dedicated WooCommerce installation with WooCommerce Subscriptions plugin and Mollie/Adyen integration.
- Orders for subscriptions: Captured on the storefront, redirected securely to the billing site, and managed there.
- Renewals & retries: Automated by billing site, with retry option for customers.
- Client dashboard: Standard WooCommerce account area, multi-language ready, login via one-time password (OTP) by email.

## Task Requirements

The applicant should propose a detailed plan covering:

1. **\*\*Custom Payment Gateway Plugin (Storefront)\*\***
  - Handles initial order creation (pending status).
  - Redirects subscription checkouts to the billing site with a secure token.
  - Allows retry of failed payments using WooCommerce's order-pay flow.
2. **\*\*Billing Site Setup\*\***
  - WooCommerce Subscriptions plugin licensed and configured.
  - Integration with Mollie/Adyen payment gateways.

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- Token validation for storefront requests.
- Creation and management of subscriptions.
- Handling of renewals, retries, and failed payments.

## 3. \*\*Secure Communication\*\*

- Use of HMAC/JWT or equivalent for signing order tokens.
- Callback/webhook mechanism to update storefront order statuses.

## 4. \*\*Client Dashboard\*\*

- Customer access to subscriptions, payments, and billing history.
- Multi-language support by design.
- One-time password (OTP) email authentication instead of account registration.

## 5. \*\*Scalability & Cost Awareness\*\*

- Only one subscription plugin license is required (billing site).
- Multiple storefronts can connect without extra license cost.

## 6. \*\*Security & Compliance\*\*

- Explain how PCI compliance is respected.
- Ensure sensitive data (e.g., payment details) is not exposed to storefronts.

## Deliverables

- A short technical design document (architecture diagram optional).
- Description of key implementation steps.
- Code outline or pseudo-code for the custom payment gateway plugin.
- Notes on testing strategy (especially renewals and retries).
- Considerations for multi-language support and OTP login.