# Job Title: MetaTrader 5 Indicator Developer – Multi-Timeframe Strategy Signal Visualisation.

**Company Overview**

We are building a next-generation trading automation platform under the **XenithAI** brand and are seeking an experienced **MQL5 Developer** to finalise a custom multi-timeframe indicator. This indicator is a key component in our EA strategy system and integrates VWAP, Fibonacci levels, and Swing High/Low logic to generate entry signals using a red/green traffic light visualisation.

**Project Overview**

You will work on extending and finalising a custom MetaTrader 5 indicator titled XenithAI\_Strategy\_VWAP\_Fibonacci along with its manager class (XenithAI\_Strategy\_VWAP\_Fibonacci\_Manager.mqh). The indicator is partially built and is intended to visualise trade entry signals across multiple timeframes using green and red lines as visual cues.

This job requires using supplied code templates and completing the indicator logic across the following timeframe-based strategies:

**Key Requirements and Deliverables**

**Indicator Functionality**

* Implement a **multi-timeframe indicator** that turns **green** when a **buy opportunity is present** according to strategy logic, and **red** when no such condition exists.
* Default calculation timeframe should be the **chart timeframe**, but users must be able to override it via parameter input.

**Input Parameters**

* **Timeframe** – Timeframe for calculation (e.g., M15, H1, H4)
* **EnableVWAP** – Boolean to apply VWAP-based strategy
* **EnableFibonacci** – Boolean to apply Fibonacci-based strategy

**Strategy Logic Implementation**

**H4 Timeframe: Swing + Fibonacci Strategy**

* Use 5-bar swing high rules.
* Apply Fibonacci levels using existing logic.
* Signal turns **green** when price retraces **below the 50% Fibonacci** level.
* Signal remains green until price moves **below 0%** or **above 80%**, at which point it turns red.

**H1 Timeframe: VWAP Strategy**

* Signal turns **green** when the bar closes **above VWAP**.
* Turns **red** when it closes **below VWAP**.

**M15 Timeframe: VWAP + Swing Low Strategy**

* Identify latest swing low using Fibonacci logic.
* Signal turns **green** when the current bar closes **above VWAP**.
* Signal turns **red** if price closes **below VWAP or below the previous swing low**.

**Manager Class Enhancements**

You will complete the CXenithAI\_Strategy\_VWAP\_Fibonacci\_Manager class to:

* Load and track multiple indicator instances across timeframes (M15, H1, H4).
* Expose methods to:
  + Retrieve **current ATR value** at a specified timeframe.
  + Retrieve **swing high/low** values at a specified timeframe.
  + Retrieve **current signal colour** (red/green) for each loaded timeframe.
  + Check if **all loaded indicators are currently green** (alert trigger).

The class must work with the current implementation where iCustom() loads instances of the indicator and adds them to a subwindow.

**Alerts and Integration**

* Trigger alert (Alert(), Print(), or pop-up) when all 3 timeframe signals are **green simultaneously**.
* Allow EA or external script to query **signal colour per timeframe** programmatically.

**Supplied Assets**

You will be provided:

* The indicator file: **XenithAI\_Strategy\_VWAP\_Fibonacci.ex5** and source .mq5
* VWAP indicator: **wVap-Full.mq5**
* Fibonacci/Swing indicator: **SwingHighLow\_and\_Fibonacci.mq5**
* Partially completed manager class
* Partially completed EA

**Required Skills**

* Advanced knowledge of **MQL5**
* Experience building and managing **custom indicators**
* Proficiency with:
  + Multi-timeframe programming
  + VWAP and Fibonacci logic
  + iCustom, indicator buffers, and safe handle usage
* Clean, modular code with clear documentation

**Engagement Terms**

* **Immediate start**

**How to Apply**

Please include:

* Examples of prior MQL5 indicator or signal projects
* Experience with multi-timeframe logic and buffer management
* Estimated timeframe

Example

