

Rate change Watch

Business Document

1. Short Summary

Allow users to set a rate change watch for specific currency pairs. When the exchange rate changes beyond a specified threshold (e.g., 1% increase/decrease), the user receives a notification.

2. Explain the Action

- Users select a currency pair (e.g., USD → EUR).
- Users define a percentage threshold (e.g., notify me if rate changes by more than $\pm 2\%$).
- System checks daily (or in real time, depending on scale) for fluctuations.
- When the threshold is breached, a notification is triggered.

3. Explain the Outcome

- Users receive alerts when currency pairs move significantly.
- Enables users to take timely financial action (e.g., buy/sell/exchange).
- Improves user engagement and value of the product.

4. Definition of Done

- ✓ Users can set and view their watch list.
 - ✓ System monitors exchange rates and compares with user-defined thresholds.
 - ✓ Alerts are triggered and delivered (email, app notification, etc.).
 - ✓ Logs are stored for auditing/debugging.
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Solution Design (API Only)

Method : POST

Sample: `/api/check-alert`

◆ Request:

```
{  
  "user_id": 123,  
  "currency_type": "USD/EUR",  
  "currency_rate_buy": 1.10,  
  "currency_rate_now": 1.13,  
  "threshold": 2%  
}
```

◆ Response:

```
{  
  "alert_type": "triggered",  
  "change_rate": 2.73%  
}
```