Intelligent Web Requirement

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# Document History

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| --- | --- | --- |
| Cheng Yi | 2010/10/21 | Initial Draft |
| Cheng Yi | 2010/10/23 – 2010/10/24 | Adding User Cases and Samples |
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# Abbreviation

WP: Web Policy Site/Product

# Overview

User can define his/her own web policies via WP.

WP will execute the defined policies.

Simple policy include the condition and action, WP will monitor the condition and execute the actions when the condition is true.

# Use Case

## Sample Assumption

Legends for the samples:

* **Parameter Name: in bold**
* **Parameter Value: $Parameter Name**
* “Constant String”: with in “”
* Variable Name: underlined
* Variable Value: $Variable Name
* Type: in red/class
* Function Name: function are following type/class by “.”

System Modules:

* WebPage, etc
* EmailNotification, etc
* User, etc
* ReminderTemplate, ReminderInstance, etc
* ReminderMessageTemplate, ReminderMessage, etc

Reminder Runtime Context:

* currentUser: User
* currentRI: ReminderInstance

## Finance

### Stock/Open-End Fund Monitoring

#### Simple Notification

Specific stock /Open End Fund (开放式基金) x’s current price below or exceed a predefined value (y)

##### Sample Template Definition:

Reminder: Simple-Stock-1

System parameter:

Next-Refresh-Time: Date:

If currentTime < 9:00 return 9:00

else return currentTime + 6

**Parameter Definition**:

Market-ID: String (SHE, SHA, NYSE, NASDAQ, etc): User Defined

Short-Name: String: User Defined

Logical-Operator: String: User Defined

Expected-Value: Float: User Defined

Current-Value: Float:

WebPage p = Brower*.*navigate(“[www.google.com/finance](http://www.google.com/finance)?q=” + $**Market-ID** + “:” + $**Short-Name**)

WebDiv d = $p.getDiv(“price-panel”)

Current-Value = d.getDivList()[0].getSpanList(1).getValue()

**Message template definition:**

“Your monitored stock:” + $Short-Name + “ has reached ” + $Expected-Value

**Condition Definition:**

Based on the operator specified:

$Current-Value > $Expected-Value

**Action/Notification definition:**

Channel: Email/SMS

Type: Once/Restart Every Day-Week

**System Implementation might consider following aspects:**

Validation:

Validate Market-ID, Short-Name, Logical-Operator, Expected-Value

Pre-compile:

Based on the logical-operator specified, corresponding scripts are generated.

##### Sample User Configuration:

User CY has defined his “Simple-Stock-1” instance “cy-ss-1” by setting the parameters for “Simple-Stock-1”:

cy-ss-1：

Market-ID: SHE

Short-Name: 000002

Logical-Operator: >

Expected-Value: 9

Channel: Email

Type: Once

#### Portfolio Notification

Break-even point, benefit rate milestone reached.

User can define his/her own portfolio, and define the action point, when the portfolio reached x% of increase or decrease, give the notification, etc.

##### Sample Template Definition:

Reminder: Portfolio Reminder1

**Parameters**:

Portfolio-Name: String: User Defined

Logical-Operator: String: User Defined

Expected-Percentage: Float: User Defined

Base-Investment: Float: User Defined

List of MyItem

Market-ID: String: User Defined

Short-Name: String: User Defined

Volume: number of share: User Defined

Current-Value:

WebPage p = Brower*.*navigate(“[www.google.com/finance](http://www.google.com/finance)” + $**Market-ID** + “:” + $**Short-Name**)

WebDiv d = $p.getDiv(“price-panel”)

Current-Value = d.getDivList()[0].getSpanList(1).getValue()

**Message template definition:**

“Your portfolio:” + $Portfolio-Name + “ has reached ” + $Expected-Percentage

**Condition Definition:**

Based on the operator specified:

Sum ($MyItem.Current-Value \* $MyItem.Volume) > $Base-Investment \* $Expected-Percentage

**Action/Notification definition:**

Channel: Email/SMS

Type: Once/Restart Every Day-Week

##### Sample User Configuration:

User CY has defined his “Portfolio-Reminder-1” instance “cy-pr-1” by setting the following parameters:

cy-pr-1:

Portfolio-Name: cy-pr-1

Logical-Operator: >

Expected-Percentage: 30%

Base-Investment: 100,000

List of MyItem

Market-ID: SHE

Short-Name: 000002

Volume: 5,000

Market-ID: SHE

Short-Name: 000024

Volume: 3,000

#### Hedging opportunity Notification

### Currency Rate Change Monitoring

### Future Price Monitoring

## Jobs

### New Related Job Post Monitoring

## Housing

### Apartment Renting Info Monitoring

#### Renting Info Notification

##### Sample Template Definition

对于张江家园网上

地区:张江/花木/etc: User defined

方式:出租(fixed)

形式:合租/独租/不限: User Defined

房型:1房/2房/3房: User Defined

价格区域: From, To: User Defined

Keyword: String: User Defined

来源: 个人/中介:User Defined

结果边界项:String:在某个前面,某个后面:User Defined

结果中除去

常置顶的

广告

##### Sample User Configuration

地区:张江

方式:出租

形式:独租

房型:1房

价格区域: To: 2000

Keyword: String: 香楠

来源: 个人

结果边界项: 在xx之后的

## E-Commerce

1. Specific product is available/unavailable
2. Specific product price drops/raises across a specific value

### Book/Electronics Price Monitoring

## Hotel

### Room Price Monitoring

## Travel

### Air-ticket Price Monitoring

### Bus/Train Ticket

## Traffic

### 交通违规记录Monitoring

### Traffic Monitoring

1. 路不堵了

## Telecom

### Better Rate-plan Monitoring

## Weather Monitoring

1. Big change in temperate forecast detected

# Functions

## Policy Definition

Users can define their policies on WP site by

1. Dragging reference sites into the portlets.
2. Define the conditions by composing expressions based on the value of specific parts of the reference sites.
3. Define the actions.

## Policy Execution

System will execute the policies defined by

1. Polling the reference sites and evaluation the conditions defined by user
2. Be notified of the updates of the interested sites and evaluate the conditions accordingly.
3. Execute the actions if triggered.

## User Self Service Portal

1. Login/Register
2. Manage/Define private policy
3. View the history of the triggered actions.
4. Register to the public policies
5. Publish the private policy as the public policies

## Administration

1. Manage/Define public policies