**Alert System**

The purpose of an alert system is to notify users of important events or changes related to their investments. This information can be used to make more informed trading decisions and to reduce risk.

Alerts can be customized to notify investors about a variety of events, such as:

* Changes in the price/ volume of a security
* News about a company or industry
* Unusual trading activity
* Upcoming dividend payments

Client Interface

Whenever a condition meets, an alert triggers and a notification will be pushed to users’ application. When user enters Alert Option, user will see 4 Tab:

1. Price Alert
2. Event Alert
3. Volume Alert
4. Technical Alert

These 4 are the alert categories.

**Customized Alert from Client**

1. **Price Alert**

For a particular percentage or when the price of a security reaches a certain level, either above or below. Security and percentage will be chosen by user.

* Category- Price Alert (Not visible to user)
* Security Selection – Search based drop down – market defined (DSE/CSE)
* **Target Price** – user input
  1. Security Current Market Price < Target Price

User will get alert when Security Current Market Price becomes >= Target Price.

* 1. Security Current Market Price > Target Price

User will get alert when Security Current Market Price becomes <= Target Price.

* Valid for – Dropdown
  + 1 Month
  + 3 Month
  + 6 Month
  + 1 Year

Alert Frequency- 1 i.e. Once triggered, alert will be deleted.

**Notification** will be defined later

\*\*Execution Time: Price alert will be sent during trading hour

1. **Event Alert**

* Category- Event (Not visible to user)
* Security Selection – Search based drop down – market defined (DSE/CSE)
* Valid for – Dropdown
  + 1 Month
  + 3 Month
  + 6 Month
  + 1 Year
* Alert Frequency- Infinite

**Notification** will be defined later

\*\*Execution Time: whenever new news appears

**Advanced Alert**

1. **Volume Alert**

Volume traded for a particular amount or above for given time interval.

* Category- Volume (Not visible to user)
* Security Selection – Search based drop down – market defined (DSE/CSE).
* Alert Type (Dropdown list)
  + **Fixed amount**
    - **Amount-**user input
  + **Historical highest volume**

When “Trade volume” will be equal or higher than “Historical highest volume” for given date range, the alert will be triggered.

* + - Range (Dropdown list)
      * + 6month
* 1 Year
* 3 Year
* 5 Year
  + **Average reach**

When “Trade volume/ value” will be equal or higher than “Avg. volume/ value” for given date range, the alert will be triggered.

* + - Range (Dropdown list)
* 6 Month
* 1 Year
* 3 Year
* 5 Year
* Valid for –Dropdown
  + 1 Month
  + 3 Month
  + 6 Month
  + 1 Year

Alert Frequency-1

**Notification** will be defined later

\*\*Execution Time: during trading hour

**Technical Alert (**Execution Time: after trading hour)

[**Note**: Technical data needs to be calculated and stored in Database. Particular system to calculate, pull and make decision is required]

Under Technical alert, all the below option will be given as Dropdown Category.

1. **RSI**

When calculated RSI will cross user inputted RSI value, an alert will be sent to user.

1. Users previous RSI< Inputted RSI.

If Users current RSI becomes >= Inputted RSI, user will be notified.

1. Users previous RSI> Inputted RSI.

If Users current RSI becomes <= Inputted RSI, user will be notified.

* Category- RSI (Not visible to user)
* Security Selection – Search based drop down – market defined (DSE/CSE)
* RSI Value- user input
* Valid for –Dropdown
  + 1 Month
  + 3 Month
  + 6 Month
  + 1 Year
* Alert Frequency-2

**Notification** will be defined later

1. **MACD**

When MACD line interacts with Signal line, an alert will be sent to user.

1. MACD< Signal value.

If MACD’ >= Signal value’, user will be notified.

1. MACD> Signal value.

If MACD’ <= Signal value’, user will be notified.

\*Updated value: MACD’ & Signal Value’

* Category- MACD (Not visible to user)
* Security Selection – Search based drop down – market defined (DSE/CSE)
* Valid for –Dropdown
  + 1 Month
  + 3 Month
  + 6 Month
  + 1 Year
* Alert Frequency-1

**Notification** will be defined later

1. **Moving Average**

When Price interacts with Moving average, an alert will be sent to user.

1. Price< Moving average.

If Price’ becomes >= Moving average’, user will be notified.

1. Price> Moving average.

If Price’ becomes <= Moving average’, user will be notified.

\*Updated value: Price’ & Moving average’

* Category- Moving Average (Not visible to user)
* Security Selection – Search based drop down – market defined (DSE/CSE)
* Time period (Dropdown List)
  + 50 days
  + 200 days
* Valid for –Dropdown
  + 1 Month
  + 3 Month
  + 6 Month
  + 1 Year
* Alert Frequency-1

**Notification** will be defined later

**Alert Watch** (Design needs to be discussed)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl.** | **Security** | **Alert Type** | **Status** | **Alert Details** |  |  |
| 1. | ACI | Price Alert | Active | Target Price = 240 | Edit & Delete Option | Disable Option |
| 2. | ACI | Event Alert | Inactive |  |  | Enable Option |
| 3. | ACI | Volume Alert | Inactive |  |  | Enable Option |
| 4. | ACI | Technical Alert | Inactive |  |  | Enable Option |

Alert Type will represent the 4 Broad Category using Icon, Symbol or by other means.

1. Price Alert
2. Event Alert
3. Volume Alert
4. Technical Alert

When user sets an Alert, it will be represented as “Active” and other option will be represented as “Inactive” via icon or symbol. If user selects a category from Alert type, user will be redirected to corresponding Alert window. User will be able to set alert from that option. But for Event alert, alert will be “Active” for that security.

\*\*User can tap and hold over a security, which will give him option to set Price, Volume, Technical and Event alert.

Back Office

**PUSH Alert**

1. **Price Alert** (Default Alert)

Price alert regarding securities of users’ portfolio will be sent to user when

* Price of a security >= Cost Price + X%

Here, X% - 20%, 50%, and 100% (by default).

Should have option to add more value in X%

* YTD Return of a security >= Y%

Here, Y% - 50%, 100% (by default).

Should have option to add more value in Y%

**Notification** will be defined later

1. **Event Alert** (Default Alert)

Based on users’ portfolio, event related to securities of portfolio will be sent to user by default.

1. **Margin (note – if these are not in other places)**

For certain client, IDLCSL may provide margin benefit or may increase margin ratio for existing margin client. So, system will send alert to those specific user or a group of user.

* Margin- (Dropdown)
  + EDR –

Below 80%, 50% (Should have option to add and customized by system user) (Auto or manual)

* + Interest charge notification
* Receiver– Specific User/ Category of User

**Notification** will be defined later

**System Alert**

\*For the below category, system will check the incident. If matches with the Alert category, it will send the corresponding Alert to relative user.

* Name of the Alert
* Category- (Not visible to user)
  + Halt
  + Floor
* Security Selection – All Halted/ Search based drop down – market defined (DSE/CSE)
* Receiver- All/ Holder of selected security/ Specific User/ Category of User.

**Notification** will be defined later

1. **Halt / Circuit Break**

Whenever a security Halts’.

1. **Floor**

Whenever floor will be set or removed of a security.

1. **Research**

New Research regarding particular company or industry or security related to owning security or Watch list security. There should be defined company under specific industry.

Link

* Category- Research
* Security Selection – All/ Search based drop down – market defined (DSE/CSE)
* Research Link- input
* Receiver- All/ Holder of selected security/ Specific User/ Category of User.

1. **Customized Price Alert**

When the price of a security reaches a certain level, either above (previously was below target price) or below (previously was above target price). Security and target price will be chosen by user.

* Category- Price Alert (Not visible to user)
* Security Selection – Search based drop down – market defined (DSE/CSE)
* **Target Price** – user input

1. Security Current Market Price < Target Price

User will get alert when Security Current Market Price becomes>= Target Price.

1. Security Current Market Price > Target Price

User will get alert when Security Current Market Price becomes <= Target Price.

* Receiver- All/ Holder of selected security/ Specific User/ Category of User.
* Alert Frequency- 1

**Notification** will be defined later

1. **Customized Event Alert**

* Category- News (Not visible to user)
* Security Selection – Search based drop down – market defined (DSE/CSE)
* Event link- should have option to add DSE and external news link
* Receiver- All/ Holder of selected security/ Category of User/ customized user.

Customized user – User whose portfolio has 30% or more occupancy by Security “A” or a certain amount or above, for example 3,000,000/-.

\*\* Certain mechanism is required to list down such user.

**Notification** will be defined later

**\*\*\* Should have option to add New Alert.**

**Customized User Group Creation (Already in the back office)**

Search condition

1. List of clients, holding a particular security
2. List of clients, holding a particular security which weighs X% or more of total security

And/or

Whose total market value is equal to or more than Y taka.

**Alert Watch**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl.** | **Alert Type/ Category** | **Alert Details** | **Set By** | **Receiver** | **Edit/Delete** | **Enable/ Disable** |
|  |  |  | **User/ System** |  |  |  |

**\*\*Should have filter option on Alert type, set by and Receiver**