**Black Box Testing - Alerts  
  
User Story** – As a shareholder I want to be able to set my own values for alerts. So that I can easily customise my share portfolio decisions.

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| **External Condition** | **Valid** | **Invalid** | **Boundary** |
| Previous Volume (shares) | >=0 (a) | <0 (b) | ~~-0.1~~, ~~0~~, 0.1 (c) |
| Current Volume (shares) | >=0 (d) | <0 (e) | ~~-0.1~~, ~~0~~, 0.1 (f) |
| Companies Followed | 0-5 (g) | <0 (h)  >5 (i) | ~~-1, 0~~, 1 (j)  4 (k), 5(l), ~~6~~ |
| Run Trigger | 0-200(m) | < 0(n) >200(o) | ~~-1, 0,~~ 1 (p) 199(q), 200(r), ~~201~~ |
| Rocket Trigger | 0-200(s) | <0 (t) >200 (u) | ~~-1, 0~~, 1 (v) 199(w), 200(x), ~~201~~ |
| Plummet Trigger | 0-200 (y) | <0 (z) >200 (aa) | ~~-1, 0~~, 1 (ab) 199(ac), 200(ad), ~~201~~ |

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| **Test Case** | **Input Condition Covered** | **Previous Volume (shares)** | **Current Volume (shares)** | **Companies followed** | **Run Trigger** | **Rocket Trigger** | **Plummet Trigger** | **Expected Output** |
| 1 | b | -0.1 |  |  |  |  |  | Invalid |
| 2 | e |  | -0.1 |  |  |  |  | Invalid |
| 3 | h |  |  | -1 |  |  |  | Invalid |
| 4 | i |  |  | 6 |  |  |  | Invalid |
| 5 | n |  |  |  | -1 |  |  | Invalid |
| 6 | o |  |  |  | 201 |  |  | Invalid |
| 7 | t |  |  |  |  | -1 |  | Invalid |
| 8 | u |  |  |  |  | 201 |  | Invalid |
| 9 | z |  |  |  |  |  | -1 | Invalid |
| 10 | aa |  |  |  |  |  | 201 | Invalid |
| 11 | a, d, g, m, s, y | 0 | 0 | 0 | 0 | 0 | 0 | Valid |
| 12 | c, f, j, p, v, ab | 0.1 | 0.1 | 1 | 1 | 1 | 1 | Valid |
| 13 | k, q, w, ac | 0.1 | 0.1 | 4 | 199 | 199 | 199 | Valid |
| 14 | l, r, x, ad | 0.1 | 0.1 | 5 | 200 | 200 | 200 | Valid |