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| **FEATURE** | **ALGORITHM** | **TIME COMPLEXITY** | **SPACE COMPLEXITY** |
| Add User | HashMap Insert | o(1) | Best Case : o(1) Worst Case o(n) |
| Remove User | HashMap Delete | o(1) | Best Case : o(1) Worst Case o(n) |
| Create Friendship | HashMap Insert | o(1) | Best Case : o(1) Worst Case o(n) |
| Remove Friendship | HashMap Delete | o(1) | Best Case : o(1) Worst Case o(n) |
| List Friends | HashMap Iterate | o(F) (F = number of friends) | o(1) |
| Degree Centrality | HashMap Lookup | o(N) | o(n) |
| Shortest Path | Breadth First Search | **O(V + E)**, where V = vertices and E = edges | **O(v) or o(w)** |