1. Since it validates from only names there could be variations in encoding the hash when using special characters in the names. For example Å Ä ö Â Â ñ. Different systems may have different types of encoding which produces different types of MD5-hashes. (google)
2. 08 = “Good morning”, 12 = “Good evening”, 16 = “Good evening”
3. Version 2 is better for just counting rows because it queries the database and counts it directly, if you use .ToList() all data is first collected and counted afterwards.
4. You can set a timer for how long something is stored in cache, you can remove items manually, items get removed when the cache is full. (google).
5. Functions should do one thing only. Variablenames and functionnames should be clear what they do and what their purpose are. Code should be easy to understand and not be too complicated, also try keeping functions and classes as small as possible. Write functions instead of duplicating code.
6. I guess the dictionary will be quite large and slow to search through if not resetted.

Potential errors with threads when using dictionary with async task. (google)

1. <https://github.com/patriknilsson2/ezytask8/ezytask7>
2. <https://github.com/patriknilsson2/ezytask8> Googled to find out how to parse xml to a list.