Merit Badge Counselor Lists Specification

Goals
1. Identify Registered Merit Badge Counselors who are registered with Troop 12 or Troop 32 Acton MA
2. Identify Troop 12 and Troop 32 Unit Leaders who are not registered as Merit Badge Counselors
3. Identify Troop 12 and Troop 32 Merit Badge Counselors for all Merit Badge.
4. Generate separate webpages for the lists identified in the above three goals that can be incorporated into an existing website.
   a. Generate WordPress-compatible pages and HTML pages for each of the above three goals
   b. Enable the downloading of the list in CSV format and the printing of the list on each of the generated webpages.
   c. Identify the generation date and time on each of the generated webpages.
5. Create a tool that will accept the inputs identified further below and re-generate the above webpages on demand.
   a. The inputs listed below that are links can have the provided links as default inputs.
   b. Generate clear prompts/instructions for supplying each required input.
   c. Generate clear and useful console logs the identify progress and errors, if any.

Definitions
1. Scouting America - formerly Boy Scouts of America.
2. Council - A Scouting America organization that services members in a geographic area.
3. Unit - A local organization of Scouting America members sponsored by a Chartering Organization. Unit types are Packs, Troops, Crews, Boats.
4. Troop <number> (abbreviated as T<number>) - The identifier for a Troop unit type.
5. T12 - Acton MA girls-only troop. AKA T7012 where '70' prefix denotes a girls-only troop.
6. T32 - Acton MA boys-only troop.
7. Merit Badge (abbreviated as MB) - An earned badge recognizing skills in a specific subject matter
8. Rank - A stepped advancement level in Scouting America
9. Eagle Scout - The highest rank in Scouting America
10. Eagle-required Merit Badge - one of a specific set of MBs required to earn the Eagle Scout Rank
11. Youth Member - An under aged 18 person registered with a unit
12. Registered Adult - A person aged 18+ who is registered with Scouting America.
13. YPT - Youth Protection Training. Required to remain current, that is, not expired, for all Registered Adults
14. Merit Badge Counselor - A Registered Adult who has been authorized by the local Council to instruct Scouts on one or more MBs
15. Unit Leader (aka Scouter, Leader) - An Registered Adult who is registered with a unit. Note that a Registered Adult can be registered with multiple units and multiple positions within Scouting America
16. ScoutBook - The data management system used by members of Scouting America.

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Notes

1. Refer to scouting.org for more information about Scouting America as needed.
2. The merit badge lists should be derived from only scouting.org as they are always current.
3. The specifications within this document supersede prior chats.
4. Request clarification where needed in this chat.

Inputs

1. List of all merit badges. They begin after "Merit Badges A-Z" heading in https://www.scouting.org/skills/merit-badges/all/; ignore the Requirements Update section.
2. List of Eagle-Required merit badges. See https://www.scouting.org/skills/merit-badges/eagle-required/
3. T12 Roster - A CSV containing a list of T12 members including Registered Adults and Youth Members. Youth Members are identified by positionname column value containing "Youth Member". Registered Adults are those not identified as a Youth Member.
4. T32 Roster - A CSV containing a list of T32 members including Registered Adults and Youth Members.Youth Members are identified by positionname column value containing "Youth Member". Registered Adults are those not identified as a Youth Member.
5. List of Merit Badge Counselors - This list is the search results generated by the ScoutBook system. It is formatted in multiple PDFs saved from the paginated search results of Registered Merit Badge Counselor within 5 miles of zip code 01720 (Acton MA).

Outputs

1. T12/T32 Merit Badge Counselors
   a. Cross reference the compiled List of Merit Badge Counselors with the Registered Adults in the T12 Roster and T32 Roster to identify the T12/T32 Merit Badge Counselors. Ignore Youth Members.
   b. List the names in alphabetical order with the union of contact information from all sources.
      i. List email(s), phone number(s), address(es) for each name.
   c. Identify all units the adult is registered with.
   d. See "Troop 12-32 Merit Badge Counselors.pdf" for example output generated from a previous Claude chat.
2. T12/T32 Leaders not Merit Badge Counselors
   a. List the names of Registered Adults in T12 and T32 who are currently not Merit Badge Counselors.
   b. See "T12-T32 Leaders not Merit Badge Counselors.pdf" for example output generated from a previous Claude chat. Note that this generated output contained an incomplete list of leaders. That issue remained to be debugged in the prior Claude chat.
3. T12/T32 Merit Badge Counselor Coverage

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    a. List all the merit badges and their T12/T32 merit badge counselors in the following order:

        i.   Eagle-required merit badges with corresponding T12/T32 merit badge counselors. Sort merit badges in ascending alphabetical order.

       ii. Eagle-required merit badges without corresponding T12/T32 merit badge counselors. Sort merit badges in ascending alphabetical order.

     iii. Non-Eagle-required merit badges with corresponding T12/T32 merit badge counselors. Sort merit badges in ascending alphabetical order.

     iv. Non-Eagle-required merit badges without corresponding T12/T32 merit badge counselors. Sort merit badges in ascending alphabetical order.

Testing

1. Verify the total number of merit badges in "T12/T32 Merit Badge Counselor Coverage" matches the total number of merit badges in https://www.scouting.org/skills/merit-badges/all/
2. Verify the total number of Eagle-required merit badges in "T12/T32 Merit Badge Counselor Coverage" matches the total number of Eagle-required merit badges in https://www.scouting.org/skills/merit-badges/eagle-required/
3. Verify the total number of Merit Badge Counselors in "T12/T32 Merit Badge Counselors" plus the total number of adults in "T12/T32 Leaders not Merit Badge Counselors" match the total number of Registered Adults in the T12 Roster plus T32 Roster.
4. Verify the "Download CVS File" and "Print" buttons work for each generated webpage. Verify their use does not generate console errors.
5. Verify the generated webpages are without system and console errors.