Tourney Excel App POP

# Environment:

1. A current version of Excel is required; preferably Excel 2016 or later.
2. Excel settings must permit macros to be executed.
3. All Excel workbooks must be in the same directory/folder.
4. The folder must be writeable by the user executing the Excel app.
5. The folder must contain 3MB of free space to store saved workbooks and files.

# Principles of Operation:

1. Most workbooks are .xlsm to allow execution of macros.
2. Tourney static parameters are stored in publicly accessible global objects.
3. Global objects are classes defined in TourneyGlobalObjects which is part of the TourneyGlobalObjects project.
4. All other workbooks are part of a separate TourneyProject Excel project.
5. Opening the Registration workbook automatically opens the TourneyGlobalObjects.
6. All objects are created and accessed using Public scope via cross-project Run requests.
7. All objects are defined as separate Excel class modules, with read/write Properties.
8. Every class instance is saved into a JSON file.
9. All fields of interest have a workbook-scoped name e.g. FRegEntriesEntryCount, FRegEntriesPool1Fee.
10. VBA macros use the form <fieldname>.offset(row, col) to locate information.
11. Example; FRegEntriesEnteredHdr.offset(1,0) locates first entry field in Entries worksheet of Registration workbook. Absolute row/column references are not used.
12. The class instance is saved whenever any change is made to a class instance.
13. All workbooks access the Public instance of a class instance to retrieve common information.
14. Examples of common info. are Tourney Name, Location, Date, MainPool specs, ConsyPool specs.
15. Other examples are MainFinancials which contains all relevant info. for calculating payouts.
16. When a new Tourney is cleared, all class instances and JSON files are reset to empty.
17. When a Tourney is closed, all class instances are saved and all workbooks are saved.
18. When a Tourney is opened, all class instances are refreshed from their JSON files.
19. Worksheets with manual input fields are outlined in blue.
20. In general, worksheets are protected to forbid user accidental input.
21. When VBA macros update protected fields worksheet is unprotected to allow changes and then immediately protected again via VBA macros.
22. Registration, MainRoster, and ConsyRoster allow user input/change in the main body
23. Registration is manually finalized for no-shows/pools before moving entrants to MainRoster.
24. MainRoster is filled in from Registration when the tourney starts.
25. ConsyRoster is filled in when the main results are known – and adjusted for those that sign up.
26. Workbooks are opened as needed and common info. is retrieved from the class instances.
27. Graduated payouts are computed using the static workbook RHallGraduated1in6SidePools.
28. Users may replace this with their own sidepool calculation workbook.
29. Replacement would require that the same workbook and worksheet names, the same format, and the same range names for it to work.
30. Main and consy payouts are computed dynamically and rounded to $5 and allow manual adjustment.
31. A separate PreliminaryRegistration workbook is used to capture early registrations.
32. The contents of PreliminaryRegstration are value-copied to Registration for the Tourney.
33. This is accomplished using Ctl+Alt+V then V+Enter paste-special to preserve formulas in target.
34. Validation routines are used to ensure MainPool and ConsyPool specifications are valid.
35. When sheet content is modified or sorted, it is UnProtected to permit modification.
36. Every sheet has a ResetSheet method where it takes care of clearing it’s own contents.