Clock Watcher User Stories with notes

* As a user, I can run the Clock Watcher software that keeps track of my time spent on a task in the WPF environment on my PC.
* As a user, I want to be able to keep track of the time spent performing a set of tasks so I can make better use of my time.
  + As a user, I can control a timer that will tick until I turn it off.
  + As a user, I can see that status of the timer at all times, so I can know whether or not the timer is running.
    - The timer can be represented as an animated clock on the status bar.
    - When running, the clock’s hands will move around its face, and will not do so while the timer’s stopped.
  + As a user, I can control when the timer is running, and when it is not.
    - I can have this governed be a keyboard key, or by clicking the animated clock on the status bar
    - Clicking or pressing the key will change the state of the timer from on to off and vice versa.
  + As a user, I can see the total time spent during a session at all times.
    - This information will be displayed in the status bar.
    - It will be constantly updated by a timer event.
  + As a user, I can see the current date and time at all times.
    - This, too, will be displayed on the status bar.
  + As a user, I can control the software via moue and/or keyboard.
  + As a user, I can view instructions for the software.
    - There can be a question-mark icon in the top right corner of the screen.
    - Clicking it will open the instructions for how to use the software.
  + As a user, I can save a set of time entries as **sessions**.
    - As a user, I can combine and separate sessions, so that I can remove repetition.
      * This would mean the innermost ending and beginning is removed from the records, as two sessions has been combined as a one.
      * However, one cannot combine days.
    - As a user, I can save my sessions separately for individual review.
      * The user can click on a button and it will save all created time entries for all open sessions.
  + As a user, I can save my sessions by day to easier document what tasks I’ve completed during a particular day.
    - As a user, I can easily identify the time entry that started a new day.
      * A sun can appear on the new time entry.
      * If this happens while the timer is running, and in the middle of a time entry, the time entry can split between the two sessions, while keeping the main comment and all underlying details in-tact between the two time entries.
      * This implies that two sessions, at that point, will be open simultaneously.
* As a programmer, I can save the sessions as separate Microsoft Access **databases**, so that I can use this information on another project.
  + Each database will save as a Microsoft Access file.
  + Research will be required to implement this.
  + In the meantime, saving can happen either by traditional saving (i.e. text file), or serialization
* As a user, I can save my tasks as **time entries** that document what I did, and for how long I did that specific task, so that I can know how my time was spent.
  + As a user, I can set an alarm on a time entry, so that I can work on a particular task for a certain period of time.
    - As a user, I can set the alarm sound and volume.
      * Clicking on the alarm will bring up a menu, allowing the user to customize the alarm for that time entry.
      * Clicking either a confirm button, or the alarm again, will close the alarm’s menu.
      * When the alarm is active its face will move.
      * The sounds will be premade: the user will not have to or be able to make any of his own.
    - As a user, I can set the alarm to a particular duration of time.
      * There will be spin value controls, allowing for dictation of duration for the alarm.
    - As a user, I can extend or shorten the period of time on the alarm to give myself more or less time to perform a particular task.
      * Clicking on the alarm again will allow the duration to be set, even while it is running.
      * It cannot be set for a time shorter than what’s already passed.
      * Time is not changed until it has been confirmed (i.e. the menu has been closed)
  + As a user, I can open sessions created by a previous time of running the software and review the time entries made within those sessions.
    - The user will be able to click an Open Sessions button that allows for the user to pick a different session to open.
    - Once this happens, a button will appear allowing the user to move back to the running session.
    - In the meantime, the current session in use will tick in the background.
    - When done reviewing the opened session, the user can click the button that returns her to the running session.
  + As a user, I can combine time entries with the same comment into one time entry so that I can keep the session free from repetition or at least cleaner.
    - As a user, I can create sub-entries under one time entry, each one representing a task performed within the uppermost entry.
      * The outermost entry’s timespan is the sum of all those sub-entries.
  + As a user, I can see my time entries displaying when I started and stopped performing a specific task.
  + As a user, I can delete time entries to remove frivolity.
    - There will be button the user can click to move into the time entry deletion state.
    - At that point the button will change to show either “Confirm” or “Done”.
    - Clicking on any time entries will delete them.
    - Click on the deletion button again will confirm the deletions.
  + As a user, I can add up separate time entries to see the total time spent on a particular task or set of tasks.
    - The user can drag and drop time entries into an adding column, and have the grand total of those time entries displayed.
      * Drag ‘n’ drop can be annoying, especially if you miss.
    - Or I can have a simple click move the entry to the adding column to the right place, and a click in the adding column makes the entry shrink away.
    - As a user, I can filter my times based on the comment associated with them so that I can easily review all the time spent on a particular task.
    - As a user, I can filter and add time entries from multiple sessions, so that I can see, from higher scope, the total time taken to perform a particular task or set of tasks across a set of sessions.
* As a user, I can add a **comment** to a time entry, so I can know what I did with my time.
  + As a user, I can create comments beforehand, so that I can use them on time entries during my sessions. We can call this a **comment bank**.
  + As a user, I can save my comment bank so that I can use it again on another time entry either during this session or another.
    - Saving the comment bank can be optional
    - Consider this: what if you have a long list of comments in your bank, and you don’t want all of them to be displayed? How can you filter them?
  + As a user, I can edit comments in the comment bank.
    - The edit will update all time entries that used that comment.
  + As a user, I can expand a comment to show a more detailed explanation of what I did during that time.
    - As a user, I can add bulleted points to a time entry that further explain what I did.
    - As a user, I’d like to be able to click on a button that would allow me to add more details.