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Simple Time Clock Application

Create an application that represents a simple time clock. You are free to use the programming language of your choice. The application must follow the requirements listed below.

➢ Allow user to be identified using a unique ID assigned to each employee.
  o Users that cannot be identified should not be able to use the application.
➢ Allow users to start a work shift.
  o Do not allow users to start multiple shifts simultaneously.
➢ Allow users to end a work shift.
  o Do not allow users to start a shift during an active shift.
➢ Allow users to start/end a break, but only during an active shift.
  o Do not allow employees to end a shift if a break is active.
➢ Allow users to start/end a lunch, but only during an active shift.
  o Do not allow employees to end a shift if a lunch is active.
➢ All shift data performed by users should be recorded and made available upon returning to the application.
➢ (Optional) Allow new users to register themselves in the application.
➢ (Optional) Allow for two types of users in the application; administrators and non-administrators.
➢ (Optional) Allow administrators to perform any function at any time regardless of the rules stated previously.
➢ (Optional) Allow administrators to view a summary report section that summarizes all the employee's shift activity.
  o (Optional) Allow administrators to filter the report data.