Employee Entry System

CSC 414 – Software Design

Employee Entry System

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Summary

The purpose of this application (hereby referred to as employee entry system) is to provides a simple interface for tracking employee hours as well as entering new employees into the system by a manager or owner.

The interface will allow employees to clock in, take a meal break, or clock out. It will allow a manager/owner to add new employees, adjust times, adjust employee information, or adjust employee roles.

Scope - The employee entry system will directly modify the company database and will not affect any other applications.

Identification – This is version 1.0 of the employee entry system.

System overview – Ideally the employee entry system will run on a dedicated Windows/DOS based system to prevent tampering of any kind. The employee entry system will be used by employees to track time or by a manager to adjust employee information in the database.

Document overview – The purpose of this document is to provide a reference to the version history, functionality, and purpose of the employee entry system.
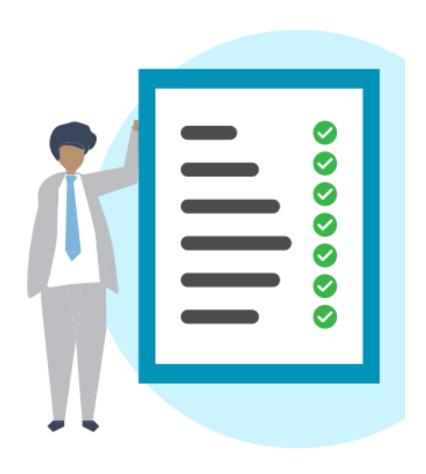
Employee Entry System Requirements:

Windows:

It's recommended to use the Employee Entry System on a dedicated machine for employee time tracking.

- x86/x64 Windows 7
- x86/x64 Windows 8
- x86/x64 Windows 10

MS-DOS:

MS-Dos 7.0 or later

DESIGN

Employee Entry System Design:

```
*********** User management menu ***********
Choose from the options below:
1. Create a new user.
2. Select a user
3. Delete a user
4. Create or update user's first name
5. Create or update user's last name
6. Create or update user's phone number
7. Create or update user's Email address
8. Show all users
9. Show all of the selected user's information
10. Exit
```

Login Menu:

The Employee Entry System has three basic menus to choose from. The login menu and the employee or management menus – each of which have appropriate functions for the respective user types.

```
*********** Employee menu ***********
Choose from the options below:
1. Clock-in.
2. Clock-out
10. Exit
```

```
*********** Login menu ***********
please login below:
Enter username: RH1195

Enter password: 43dbj
```

Employees:

For security reasons, employees are limited to clocking in or clocking out. Time is tracked in seconds and recorded to a database or spreadsheet depending on the installation type.

Managers:

Managers are able to adjust any user information in the system using the management menu as well as add new employees/managers.

TESTING

Test 1:
Simple user login test.
1a – correct user name entry.

```
*********** Login menu ************
please login below:
Enter username: RH1195
```

1b – incorrect user name entry.

```
*********** Login menu ************
please login below:
Enter username: wrong_
```

1c – correct password entry

```
*********** Login menu ************
please login below:
Enter username: RH1195

Enter password: 43dbj
```

1d – incorrect password

```
*********** Login menu ************
please login below:
Enter username: RH1195

Enter password: wrong_
```

Test 2:
Time tracking.
2a – clocking in.

```
*********** Login menu ************
please login below:
Enter username: RH1195

Enter password: wrong_
```

2b – clocking out

```
*********** Employee menu ************
Choose from the options below:
1. Clock-in.
2. Clock-out
10. Exit
2
You worked 11[s]
You have clocked out.
```

Test 3:
Management Menu tests.
3a. – creating a user

```
1
enter the new user's ID.
```

3b – selecting a user.

```
select a user:

0. user RH1195: Ralph harris
1. user RH1196: Ralphie McHarrison
2. user mel123: Melanie hamby
3. user :
```

3c – deleting a user

```
select a user to delete:

0. user RH1195: Ralph harris
1. user RH1196: Ralphie McHarrison
2. user mel123: Melanie hamby
```

3d – 3g – updating user information

```
4
enter the user's first name:
```

3h – show all users option.

```
user 2:
uniqueId: RH1196
FirstName: Ralphie
lastName: McHarrison
email: me@place.com
address:
phoneNumber:
role: 1
password: 43dbj

user 3:
uniqueId: mel123
FirstName: ralph
lastName: hamby
email: mel@place.com
address:
phoneNumber:
role: 0
password: 43dbj
```

3i – show selected user information.

```
uniqueId: mel123
FirstName: ralph
lastName: hamby
email: mel@place.com
address:
phoneNumber:
role: 0
password: 43dbj
```

TEST RESULTS

Test 1:
Simple user login test.
1a – correct user name entry. - *Success!

```
×××××××××××× Login menu ××××××××××××
please login below:
Enter username: RH1195

Enter password: 43dbj
```

1b – incorrect user name entry. - *Success!

```
×××××××××××× Login menu ××××××××××××
please login below:
Enter username: wrong
incorrect username!
```

1c – correct password entry - *Success!

```
×××××××××××× Login menu ××××××××××××
please login below:
Enter username: RH1195

Enter password: 43dbj
Success! You are logged in.
```

1d – incorrect password - *Success!

```
×××××××××××× Login menu ××××××××××××
please login below:
Enter username: RH1195

Enter password: wrong
incorect password!
```

Test 2:
Time tracking.
2a – clocking in. - *Success!

```
×××××××××××× Employee menu ××××××××××××
Choose from the options below:
1. Clock-in.
2. Clock-out
10. Exit
1
You are clocked in.
```

2b – clocking out - *Success!

```
×××××××××××× Employee menu ××××××××××××
Choose from the options below:
1. Clock-in.
2. Clock-out
10. Exit
2
You worked 11[s]
You have clocked out.
```

Test 3:
Management Menu tests.
3a. – creating a user - *Success!

```
enter the new user's email address.
me@here.com

enter the new user's login password.
43dbj
new user created: user mel1234
Press any key to continue . . .
```

3b – selecting a user. - *Success!

```
select a user:

0. user RH1195: Ralph harris
1. user RH1196: Ralphie McHarrison
2. user mel123: Melanie hamby

0
user 0 selected
```

3c – deleting a user - *Success!

```
select a user to delete:

0. user RH1195: Ralph harris
1. user RH1196: Ralphie McHarrison
2. user mel123: Melanie hamby

2
user 2 deleted
```

3d – 3g – updating user information - *Success!

```
enter the user's first name:
Mel
the user's first name has been changed: Mel
```

3h – show all users option – *Success!

```
user 3:
uniqueId: mel123
FirstName: ralph
lastName: hamby
email: mel@place.com
address:
phoneNumber:
role: 0
password: 43dbj
```

3i – show selected user information - *Success!

```
uniqueId: mel123
FirstName: ralph
lastName: hamby
email: mel@place.com
address:
phoneNumber:
role: 0
password: 43dbj
```