Assignment #2

Worth: 10% of final grade

Account Ticketing System

| Milestone | Worth | Due Date | Submission Required |
|-----------|-------|---|----------------------------|
| 1 | 10% | (<u>Suggested Target</u> : November 16 th) | NO |
| 2 | 40% | November 19 th by 23:59 EST (end of Week 10) | YES |
| 3 | 10% | (<u>Suggested Target</u> : November 26 th) | NO |
| 4 | 40% | December 3 rd by 23:59 EST (end of Week 12) | YES |

A2-MS2: Sample Output (SHORT)

The SHORT submission option will qualify you to potentially earn a maximum of 70% (B).

Also available, is a text file "A2MS2-SHORT_Inputs.txt" which contains only the user inputs and can be used to help automate testing your work by copying and pasting it into your command window.

| Account Ticketing System - Login |
|---|
| 1) Login to the system 0) Exit application |
| Selection: 2 ERROR: Value must be between 0 and 1 inclusive: 0 |
| Are you sure you want to exit? ([Y]es [N]o): n |
| Account Ticketing System - Login |
| 1) Login to the system 0) Exit application |
| Selection: 1 |
| Enter the account#: 30004 User Login : agentJ Password : TT*&21tt INVALID user login/password combination! [attempts remaining:2] |
| Enter the account#: 50008 User Login : userA Password : TT*&21tt Thyal TD user login /password combination [attempts name; 1] |
| INVALID user login/password combination! [attempts remaining:1] |

```
Enter the account#: 50008
User Login : agentJ
             : 12345678
Password
INVALID user login/password combination! [attempts remaining:0]
ERROR: Access Denied.
<< ENTER key to Continue... >>
_____
Account Ticketing System - Login
_____
1) Login to the system
0) Exit application
-----
Selection: 1
Enter the account#: 50008
User Login : agentJ
Password
             : TT*&21tt
AGENT: Will Smith (50008)
_____
Account Ticketing System - Agent Menu
_____
1) Add a new account
2) Modify an existing account
3) Remove an account
4) List accounts: detailed view
5) List new tickets
6) List active tickets
7) List closed tickets
8) Add a new ticket
9) Manage a ticket
-----
0) Logout
Selection: 4
Acct# Acct.Type Full Name Birth Income
                                      Country
                                              Login Password
            .....
30001 CUSTOMER Silly Sally 1990 150000.10 CANADA
50599 AGENT Fred Flintstone 1972 2250400.22 AFRICA
                                              agent1 y*b*#*@*
30004 CUSTOMER Betty Boop 1978 250800.74 INDIA 50008 AGENT Will Smith 1952 2350600.82 U.S.A.
                                                     T***2*t*
                                              agentJ
30020 CUSTOMER Shrimpy Shrimp 2000 350500.35 KOREA
<< ENTER key to Continue... >>
AGENT: Will Smith (50008)
_____
Account Ticketing System - Agent Menu
_____
1) Add a new account
2) Modify an existing account
```

```
3) Remove an account
4) List accounts: detailed view
------
5) List new tickets
6) List active tickets
7) List closed tickets
8) Add a new ticket
9) Manage a ticket
0) Logout
Selection: 6
..... ---- ----
Ticket Acct# Full Name Status Subject
060001 30004 Betty Boop ACTIVE Frequent Disconnects
080599 30001 Silly Sally ACTIVE No power/does not turn on
080004 30020 Shrimpy Shrimp ACTIVE My head hurts!
080020 30020 Shrimpy Shrimp ACTIVE It's broken/does not work
______
Enter the ticket number to view the messages or
0 to return to previous menu: 80004
______
080004 (ACTIVE) Re: My head hurts!
______
CUSTOMER (Shrimpy Shrimp):
  When the unit is placed on my head it hurts.
AGENT (Will Smith):
  Don't place it on your head.
CUSTOMER (Shrimpy Shrimp):
  I don't understand - why not?
<< ENTER key to Continue... >>
..... ..... ..... ..... ..... ......
Ticket Acct# Full Name Status Subject
                                          Messages
060001 30004 Betty Boop ACTIVE Frequent Disconnects
080599 30001 Silly Sally ACTIVE No power/does not turn on
080004 30020 Shrimpy Shrimp ACTIVE My head hurts!
080020 30020 Shrimpy Shrimp ACTIVE It's broken/does not work 5
-----
Enter the ticket number to view the messages or
0 to return to previous menu: 0
AGENT: Will Smith (50008)
_____
Account Ticketing System - Agent Menu
_____
1) Add a new account
2) Modify an existing account
3) Remove an account
```

```
4) List accounts: detailed view
-----
5) List new tickets
6) List active tickets
7) List closed tickets
8) Add a new ticket
9) Manage a ticket
0) Logout
Selection: 1
ERROR: Account listing is FULL, call ITS Support!
<< ENTER key to Continue... >>
AGENT: Will Smith (50008)
_____
Account Ticketing System - Agent Menu
_____
1) Add a new account
2) Modify an existing account
3) Remove an account
4) List accounts: detailed view
5) List new tickets
6) List active tickets
7) List closed tickets
8) Add a new ticket
9) Manage a ticket
-----
0) Logout
Selection: 3
Enter the account#: 30020
Acct# Acct.Type Full Name Birth Income Country Login Password
30020 CUSTOMER Shrimpy Shrimp 2000 350500.35 KOREA
Are you sure you want to remove this record? ([Y]es|[N]o): Y
*** Account Removed! (2 ticket(s) removed) ***
<< ENTER key to Continue... >>
AGENT: Will Smith (50008)
Account Ticketing System - Agent Menu
_____
1) Add a new account
2) Modify an existing account
3) Remove an account
4) List accounts: detailed view
5) List new tickets
6) List active tickets
```

```
7) List closed tickets
8) Add a new ticket
9) Manage a ticket
0) Logout
Selection: 3
Enter the account#: 30001
Acct# Acct.Type Full Name Birth Income Country Login Password
30001 CUSTOMER Silly Sally 1990 150000.10 CANADA
Are you sure you want to remove this record? ([Y]es|[N]o): Y
*** Account Removed! (1 ticket(s) removed) ***
<< ENTER key to Continue... >>
AGENT: Will Smith (50008)
_____
Account Ticketing System - Agent Menu
_____
1) Add a new account
2) Modify an existing account
3) Remove an account
4) List accounts: detailed view
-----
5) List new tickets
6) List active tickets
7) List closed tickets
8) Add a new ticket
9) Manage a ticket
0) Logout
Selection: 1
New Account Data (Account#:50600)
-----
Enter the account type (A=Agent | C=Customer): A
Person Data Input
-----
Enter the person's full name (30 chars max): Funny Phillis
Enter birth year (current age must be between 18 and 110): 2003
Enter the household Income: $765432.11
Enter the country (30 chars max.): Scotland
User Login Data Input
-----
Enter user login (10 chars max): agent Z
ERROR: The user login must NOT contain whitespace characters.
Enter user login (10 chars max): agentZ
Enter the password (must be 8 chars in length): TT-/tt88
SECURITY: Password must contain 2 of each:
        Digit: 0-9
```

```
UPPERCASE character
         lowercase character
         symbol character: !@#$%^&*
Enter the password (must be 8 chars in length): TT@@tt88
*** New account added! ***
<< ENTER key to Continue... >>
AGENT: Will Smith (50008)
_____
Account Ticketing System - Agent Menu
_____
1) Add a new account
2) Modify an existing account
3) Remove an account
4) List accounts: detailed view
5) List new tickets
6) List active tickets
7) List closed tickets
8) Add a new ticket
9) Manage a ticket
0) Logout
Selection: 2
Enter the account#: 50599
Update Account: 50599 (Fred Flintstone)
-----
1) Update account type (current value: A)
2) Person
3) Login
0) Done
Selection: 1
Enter the account type (A=Agent | C=Customer): C
Update Account: 50599 (Fred Flintstone)
1) Update account type (current value: C)
2) Person
3) Login
0) Done
Selection: 2
Person Update Options
1) Full name (current value: Fred Flintstone)
2) Household Income (current value: $2250400.22)
3) Country (current value: AFRICA)
0) Done
Selection: 1
Enter the person's full name (30 chars max): Happy Hillary
```

```
Person Update Options
_____
1) Full name (current value: Happy Hillary)
2) Household Income (current value: $2250400.22)
3) Country (current value: AFRICA)
0) Done
Selection: 2
Enter the household Income: $665544.33
Person Update Options
1) Full name (current value: Happy Hillary)
2) Household Income (current value: $665544.33)
3) Country (current value: AFRICA)
0) Done
Selection: 3
Enter the country (30 chars max.): Brazil
Person Update Options
-----
1) Full name (current value: Happy Hillary)
2) Household Income (current value: $665544.33)
3) Country (current value: BRAZIL)
0) Done
Selection: 0
Update Account: 50599 (Happy Hillary)
-----
1) Update account type (current value: C)
2) Person
3) Login
0) Done
Selection: 0
AGENT: Will Smith (50008)
_____
Account Ticketing System - Agent Menu
_____
1) Add a new account
2) Modify an existing account
3) Remove an account
4) List accounts: detailed view
-----
5) List new tickets
6) List active tickets
7) List closed tickets
8) Add a new ticket
9) Manage a ticket
0) Logout
Selection: 8
Enter the account#: 30004
Acct# Acct.Type Full Name
                           Birth Income
                                          Country
                                                   Login
                                                             Password
```

```
30004 CUSTOMER Betty Boop
                        1978 250800.74 INDIA
Add a new ticket for this customer? ([Y]es|[N]o): Y
New Ticket (Ticket#:070534)
Enter the ticket SUBJECT (30 chars. maximum): Empty Bottle!
Enter the ticket message details (150 chars. maximum). Press the ENTER key to submit:
Scotch bottle arrived empty!
*** New ticket created! ***
<< ENTER key to Continue... >>
AGENT: Will Smith (50008)
_____
Account Ticketing System - Agent Menu
_____
1) Add a new account
2) Modify an existing account
3) Remove an account
4) List accounts: detailed view
5) List new tickets
6) List active tickets
7) List closed tickets
8) Add a new ticket
9) Manage a ticket
-----
0) Logout
Selection: 9
Enter ticket number: 70534
Ticket 070534 - Update Options
-----
Status : ACTIVE
Subject : Empty Bottle!
Acct# : 30004
Customer: Betty Boop
-----
1) Add CUSTOMER message
2) Add AGENT message
3) Close ticket
4) Re-activate ticket
0) Done
Selection: 2
Enter the ticket message details (150 chars. maximum). Press the ENTER key to submit:
We will resend with a full bottle.
_____
Ticket 070534 - Update Options
```

```
Status : ACTIVE
Subject : Empty Bottle!
Acct# : 30004
Customer: Betty Boop
1) Add CUSTOMER message
2) Add AGENT message
3) Close ticket
4) Re-activate ticket
0) Done
Selection: 1
Enter the ticket message details (150 chars. maximum). Press the ENTER key to submit:
Thanks!
Ticket 070534 - Update Options
-----
Status : ACTIVE
Subject : Empty Bottle!
Acct# : 30004
Customer: Betty Boop
1) Add CUSTOMER message
2) Add AGENT message
3) Close ticket
4) Re-activate ticket
0) Done
Selection: 0
AGENT: Will Smith (50008)
_____
Account Ticketing System - Agent Menu
_____
1) Add a new account
2) Modify an existing account
3) Remove an account
4) List accounts: detailed view
5) List new tickets
6) List active tickets
7) List closed tickets
8) Add a new ticket
9) Manage a ticket
-----
0) Logout
Selection: 9
Enter ticket number: 70533
Ticket 070533 - Update Options
-----
Status : CLOSED
Subject: Nothing happens...
Acct# : 30004
Customer: Betty Boop
```

```
-----
1) Add CUSTOMER message
2) Add AGENT message
3) Close ticket
4) Re-activate ticket
0) Done
Selection: 4
Are you sure you want to RE-ACTIVATE this closed ticket? ([Y]es|[N]o): Y
*** Ticket re-activated! ***
Ticket 070533 - Update Options
_____
Status : ACTIVE
Subject: Nothing happens...
Acct# : 30004
Customer: Betty Boop
-----
1) Add CUSTOMER message
2) Add AGENT message
3) Close ticket
4) Re-activate ticket
0) Done
Selection: 0
AGENT: Will Smith (50008)
_____
Account Ticketing System - Agent Menu
_____
1) Add a new account
2) Modify an existing account
3) Remove an account
4) List accounts: detailed view
-----
5) List new tickets
6) List active tickets
7) List closed tickets
8) Add a new ticket
9) Manage a ticket
       -----
0) Logout
Selection: 4
Acct# Acct.Type Full Name Birth Income Country Login Password
50600 AGENT Funny Phillis 2003 765432.11 SCOTLAND agentZ T*@*t*8*
50599 CUSTOMER Happy Hillary 1972 665544.33 BRAZIL
30004 CUSTOMER Betty Boop 1978 250800.74 INDIA
50008 AGENT Will Smith 1952 2350600.82 U.S.A. agentJ T***2*t*
<< ENTER key to Continue... >>
AGENT: Will Smith (50008)
_____
Account Ticketing System - Agent Menu
```

```
_____
1) Add a new account
2) Modify an existing account
3) Remove an account
4) List accounts: detailed view
5) List new tickets
6) List active tickets
7) List closed tickets
8) Add a new ticket
9) Manage a ticket
0) Logout
Selection: 6
Ticket Acct# Full Name Status Subject
                                               Messages
-----
060001 30004 Betty BoopACTIVE Frequent Disconnects070534 30004 Betty BoopACTIVE Empty Bottle!070533 30004 Betty BoopACTIVE Nothing happens...
Enter the ticket number to view the messages or
0 to return to previous menu: 70534
______
070534 (ACTIVE) Re: Empty Bottle!
______
CUSTOMER (Betty Boop):
  Scotch bottle arrived empty!
AGENT (Will Smith):
  We will resend with a full bottle.
CUSTOMER (Betty Boop):
  Thanks!
<< ENTER key to Continue... >>
Ticket Acct# Full Name Status Subject
                                              Messages
060001 30004 Betty Boop ACTIVE Frequent Disconnects
070534 30004 Betty Boop ACTIVE Empty Bottle!
070533 30004 Betty Boop ACTIVE Nothing happens...
Enter the ticket number to view the messages or
0 to return to previous menu: 0
AGENT: Will Smith (50008)
_____
Account Ticketing System - Agent Menu
_____
1) Add a new account
2) Modify an existing account
```

| 3) Remove an account 4) List accounts: detailed view |
|--|
| 5) List new tickets 5) List active tickets 7) List closed tickets 3) Add a new ticket 9) Manage a ticket |
| 9) Logout |
| Selection: 0 |
| ### LOGGED OUT ### |
| Account Ticketing System - Login |
| L) Login to the system 3) Exit application |
| Selection: 0 |
| Are you sure you want to exit? ([Y]es [N]o): Y |
| Account Ticketing System - Terminated |