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_4-long-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.

######################################
Loading account data (15 accounts loaded)
Loading ticket data (14 tickets loaded)
#######################################
Account Ticketing System - Login
======================================
1) Login to the system
0) Exit application
<u> </u>
Selection: 2
ERROR: Value must be between 0 and 1 inclusive: 2
And you came you want to exit? ([V]es[[N]e).
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
Selection: "
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
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... >>[ENTER]
_____
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
                                                            y*b*#*@*
                                                   agent1
30004 CUSTOMER Betty Boop 1978 250800.74 INDIA 50008 AGENT Will Smith 1952 2350600.82 U.S.A.
                                                   agentJ
                                                            T***2*t*
30020 CUSTOMER Shrimpy Shrimp 2000 350500.35 KOREA
34000 AGENT Xyla Yates 1991 61907.58 GREECE
                                                  Cherokee
                                                            E*1*d*&*
50007 CUSTOMER Chaney Kinney 1963 22288.09 SLOVENIA
```

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30014 AGENT
              Hanae Horn 1999 35403.36 SPAIN
                                                      Keiko
                                                                R*5*r*&*
40021 CUSTOMER Kane Lancaster 1951 77711.60 PORTUGAL
35035 CUSTOMER Honorato Banks 1999 83024.91 HONDURAS
42042 CUSTOMER Dexter Martin 1932 40187.20 GUAM
35049 CUSTOMER Buck Odom 1990 60494.16 LESOTHO
44056 CUSTOMER Craig Mcknight 1961 91914.61 BAHAMAS
34063 CUSTOMER Jeffrey Gills 1989 27746.17 SRI LANKA 50070 AGENT Wylie Pollard 1990 61384.65 ALBANIA
                                                      Lara E*4*v*&*
<< ENTER key to Continue... >>[ENTER]
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 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
030530 30004 Betty Boop ACTIVE Does not respond to command... 17 080204 30001 Silly Sally ACTIVE It's very messy! 2 040599 35049 Buck Odom ACTIVE Power Issue 1
040001 40021 Kane Lancaster ACTIVE Connectivity Problem
                                                              -5
040530 40021 Kane Lancaster ACTIVE Not doing what it's told... 17
040004 35049 Buck Odom ACTIVE Causes bodily harm!
040204 50070 Wylie Pollard ACTIVE It's very messy!
-----
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.
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CUSTOMER (Shrimpy Shrimp):
   I don't understand - why not?
<< ENTER key to Continue... >>[ENTER]
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
030530 30004 Betty Boop ACTIVE Does not respond to command... 17
080204 30001 Silly Sally ACTIVE It's very messy! 2
040599 35049 Buck Odom ACTIVE Power Issue 1
040530 40021 Kane Lancaster ACTIVE Connectivity Problem 5
0400530 40021 Kane Lancaster ACTIVE Not doing what it's told... 17
040004 35049 Buck Odom ACTIVE Causes bodily harm! 3
040204 50070 Wylie Pollard ACTIVE It's very messy! 2
----- ---- ----- ----- ----- -----
Enter the ticket number to view the messages or
0 to return to previous menu: 2
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... >>[ENTER]
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
```

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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! (3 ticket(s) removed) ***
<< ENTER key to Continue... >> [ENTER]
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! (2 ticket(s) removed) ***
<< ENTER key to Continue... >> [ENTER]
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... >>[ENTER]
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... >>[ENTER]
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
```

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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
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Fall – 2021

AGENT: Will Smi	•							
Account Ticketing System - Agent Menu								
account licketing System - Agent Menu								
1) Add a new account								
• • • • • • • • • • • • • • • • • • • •								
	2) Modify an existing account							
3) Remove an account4) List accounts: detailed view								
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								
o, <u>-</u>								
Selection: 4								
_								
Acct# Acct.Type	Full Name	Birth	Income	Country	Login	Password		
	Funny Phillis				agentZ	T*@*t*8*		
50599 CUSTOMER	Happy Hillary	1972						
30004 CUSTOMER			250800.74	INDIA				
50008 AGENT	Will Smith		2350600.82	U.S.A.	agentJ			
34000 AGENT	,			GREECE	Cherokee	E*1*d*&*		
50007 CUSTOMER				SLOVENIA				
30014 AGENT	Hanae Horn	1999			Keiko	R*5*r*&*		
40021 CUSTOMER		_		PORTUGAL				
35035 CUSTOMER								
42042 CUSTOMER		_	40187.20					
35049 CUSTOMER		1990	60494.16					
	Craig Mcknight		91914.61					
34063 CUSTOMER 50070 AGENT	Jeffrey Gills Wylie Pollard	1989		SRI LANKA	Lana	E*4*v*&*		
SOUTO AGENT	wylle Pollaru	1990	01384.03	ALBANIA	Lara	E"4"V"Q"		
cc ENTER key to	Continue >>	ENTER 1						
XX ENTER REY CO	Concinue //							
AGENT: Will Smi	th (50008)							
	=======================================	======						
Account Ticketi	ng System - Agen	t Menu						
	=========							
1) Add a new ac	count							
2) Modify an ex	isting account							
3) Remove an ac								
	s: detailed view							
5) List new tick	kets							
6) List active	tickets							
7) List closed	tickets							
8) Add a new ti	cket							
9) Manage a tic	ket							
0) Logout								
Calaatian 5								
Selection: 6	Selection: 6							

			,,
Ticket Acct# Full Name	Status	Subject	Messages
		Francisch Discourants	_
060001 30004 Betty Boop			5 3
070534 30004 Betty Boop 070533 30004 Betty Boop			1
		Does not respond to command	_
040599 35049 Buck Odom			1
040001 40021 Kane Lancaster			5
		Not doing what it's told	17
040004 35049 Buck Odom	ACTIVE	Causes bodily harm!	3
040204 50070 Wylie Pollard	ACTIVE	It's very messy!	2
Enter the ticket number to v 0 to return to previous menu	ı: <mark>70534</mark>	_	
070534 (ACTIVE) Re: Empty Bo	ttle!		
CUSTOMER (Betty Boop): Scotch bottle arrived emp			
AGENT (Will Smith):			
We will resend with a ful	.ı bottle		
CUSTOMER (Betty Boop): Thanks!			
		-	
<pre><< ENTER key to Continue</pre>	>>[ENTE	3]	
Ticket Acct# Full Name		Subject	Messages
070534 30004 Betty Boop	ACTIVE	Empty Bottle!	3
070533 30004 Betty Boop	ACTIVE	Frequent Disconnects Empty Bottle! Nothing happens Does not respond to command	1
030530 30004 Betty Boop	ACTIVE	Does not respond to command	17
		Power Issue	
040001 40021 Kane Lancaster			5
040530 40021 Kane Lancaster 040004 35049 Buck Odom			17 3
040204 50070 Wylie Pollard			2
Enter the ticket number to v 0 to return to previous menu		messages or	
AGENT: Will Smith (50008)			
Account Ticketing System - A	Agent Mer	nu	
1) Add a new account 2) Modify an existing accoun 3) Remove an account 4) List accounts: detailed v	nt		
5) List new tickets6) List active tickets			

7) List closed tickets 8) Add a new ticket 9) Manage a ticket
0) Logout
Selection: 0
Saving session modifications 14 account(s) saved. 10 ticket(s) saved. ### LOGGED OUT ###
Account Ticketing System - Login
1) Login to the system 0) Exit application
Selection: 0
Selection: Are you sure you want to exit? ([Y]es [N]o): Y