

Project Name:	Zoo Information System					
Test Number:	001	Test Designed By:	Mark Darling			
Test Case ID:	TC_AUTH_PUNCH-CLOCK-001	Test Designed Date:	11/21/2021			
Test Priority:	HIGH	Test Executed By:	Mark Darling			
Module Name:	User Authentication	Test Execution Date:	11/21/2021			
Test Title:	Verify user time clock punch in flow					
Description:	Test that a user can successfully clock in using their USER ID and PIN to authenticate.					
Pre-conditions:	User must have valid USER ID and PIN credentials established in ZooData.txt file.		Dependencies:			
Test Procedure:						
STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS PASS/FAIL	NOTES
1	launch application to main menu			main menu is displayed	P	
2	select option: [1] Punch Clock	1	user is asked for USER ID	user is asked for USER ID	P	
3	provide valid USER ID	0123456	user is asked for PIN	user is asked for PIN	P	
4	provide valid PIN	0123	clock punch accepted user is shown next menu	"Punch accepted." "MASTER MENU" displayed	P	user's time punch is not actually logged or stored anywhere yet  menu displayed is based on user's defined access level
Post-conditions:	User credentials have been validated against currently loaded ZooInfo.txt text file and user's clock punch was successful. User is presented with "MASTER MENU".					

Project Name:	Zoo Information System					
Test Number:	002	Test Designed By:	Mark Darling			
Test Case ID:	TC_AUTH_ACCESS-LEVEL-001	Test Designed Date:	11/21/2021			
Test Priority:	HIGH	Test Executed By:	Mark Darling			
Module Name:	User Authentication	Test Execution Date:	11/21/2021			
Test Title:	Verify users of different access levels are shown the correct menu					
Description:	Test that supplying different sets of credentials (USER ID & PIN) at time clock punch in menu selection brings users to their respective/correct sub-menus based on their defined access levels stored in the loaded ZooData.txt file.					
Pre-conditions:	Users must have valid USER ID and PIN credentials established in ZooData.txt file.		Dependencies:			
Test Procedure:						
STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS PASS/FAIL	NOTES
1	launch application to main menu			main menu is displayed	P	
2	select option: [1] Punch Clock	1	user is asked for USER ID	user is asked for USER ID	P	
3	provide valid USER ID	1234567	user is asked for PIN	user is asked for PIN	P	
4	provide valid PIN	1234	clock punch accepted user is shown next menu	"Punch accepted." "GENERAL MANAGER MENU" displayed	P	user's time punch not actually logged/stored yet
Post-conditions:	User credentials have been validated against currently loaded ZooInfo.txt text file and user's clock punch was successful. User is presented with "GENERAL MANAGER MENU".					

Project Name:	Zoo Information System					
Test Number:	003	Test Designed By:	Mark Darling			
Test Case ID:	TC_AUTH_BAD-INPUT-001	Test Designed Date:	11/21/2021			
Test Priority:	HIGH	Test Executed By:	Mark Darling			
Module Name:	User Authentication	Test Execution Date:	11/21/2021			
Test Title:	Verify incomplete USER ID fails gracefully during login					
Description:	Test that entering an incomplete USER ID during time clock punch in does not allow a user to authenticate and access internal function menus.					
Pre-conditions:	Users must have valid USER ID and PIN credentials established in ZooData.txt file.		Dependencies:			
Test Procedure:						
STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS PASS/FAIL	NOTES
1	launch application to main menu			main menu is displayed	P	
2	select option: [1] Punch Clock	1	user is asked for USER ID	user is asked for USER ID	P	
3	provide incomplete USER ID	1	user informed of incorrect USER ID	user is asked for PIN	F	USER ID verification should be performed immediately
4	provide valid PIN	1234	error authenticating user user is kicked back to main menu	"ERROR: Unable to validate user!" main menu displayed	P	
Post-conditions:	User was unable to validate using incomplete credentials at time clock punch in menu selection and was sent back to main menu to try again.					

Project Name:	Zoo Information System					
Test Number:	004	Test Designed By:	Mark Darling			
Test Case ID:	TC_AUTH_BAD-INPUT-002	Test Designed Date:	11/21/2021			
Test Priority:	HIGH	Test Executed By:	Mark Darling			
Module Name:	User Authentication	Test Execution Date:	11/21/2021			
Test Title:	Verify incomplete PIN fails gracefully during login					
Description:	Test that entering an incomplete PIN during time clock punch in does not allow a user to authenticate and access internal function menus.					
Pre-conditions:	Users must have valid USER ID and PIN credentials established in ZooData.txt file.		Dependencies:			
Test Procedure:						
STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS PASS/FAIL	NOTES
1	launch application to main menu			main menu is displayed	P	
2	select option: [1] Punch Clock	1	user is asked for USER ID	user is asked for USER ID	P	
3	provide valid USER ID	1234567	user is asked for PIN	user is asked for PIN	P	
4	provide incomplete PIN	1	error authenticating user user is kicked back to main menu	"ERROR: Unable to validate user!" main menu displayed	P	
Post-conditions:	User was unable to validate using incomplete credentials at time clock punch in menu selection and was sent back to main menu to try again.					

Homework 4  
Writing Test Procedures

Project Name:	Zoo Information System					
Test Number:	005	Test Designed By:	Mark Darling			
Test Case ID:	TC_AUTH_BAD-INPUT-003	Test Designed Date:	11/21/2021			
Test Priority:	HIGH	Test Executed By:	Mark Darling			
Module Name:	User Authentication	Test Execution Date:	11/21/2021			
Test Title:	Verify non-numeric USER ID fails gracefully during login					
Description:	Test that entering a non-numeric USER ID during time clock punch in does not crash application or allow a user to authenticate and access internal function menus.					
Pre-conditions:	Users must have valid USER ID and PIN credentials established in ZooData.txt file.		Dependencies:			
Test Procedure:						
STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS PASS/FAIL	NOTES
1	launch application to main menu			main menu is displayed	P	
2	select option: [1] Punch Clock	1	user is asked for USER ID	user is asked for USER ID	P	
3	provide non-numeric USER ID	@bc	user informed of incorrect USER ID	user is asked for PIN	F	USER ID verification should be performed immediately
4	provide valid PIN	1234	error authenticating user user is kicked back to main menu	"ERROR: Unable to validate user!" main menu displayed	P	
Post-conditions:	User was unable to validate using non-numeric USER ID at time clock punch in menu selection and was sent back to main menu to try again.					

Project Name:	Zoo Information System					
Test Number:	006	Test Designed By:	Mark Darling			
Test Case ID:	TC_AUTH_BAD-INPUT-004	Test Designed Date:	11/21/2021			
Test Priority:	HIGH	Test Executed By:	Mark Darling			
Module Name:	User Authentication	Test Execution Date:	11/21/2021			
Test Title:	Verify non-numeric user PIN fails gracefully during login					
Description:	Test that entering a non-numeric user PIN during time clock punch in does not crash application or allow a user to authenticate and access internal function menus.					
Pre-conditions:	Users must have valid USER ID and PIN credentials established in ZooData.txt file.		Dependencies:			
Test Procedure:						
STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS PASS/FAIL	NOTES
1	launch application to main menu			main menu is displayed	P	
2	select option: [1] Punch Clock	1	user is asked for USER ID	user is asked for USER ID	P	
3	provide valid USER ID	1234567	user is asked for PIN	user is asked for PIN	P	
4	provide non-numeric PIN	DDDDD	error authenticating user user is kicked back to main menu	"ERROR: Unable to validate user!" main menu displayed	P	Dodge Duck Dip Dive Dodge
Post-conditions:	User was unable to validate using non-numeric user PIN at time clock punch in menu selection and was sent back to main menu to try again.					

Project Name:	Zoo Information System					
Test Number:	007	Test Designed By:	Mark Darling			
Test Case ID:	TC_AUTH_EXIT-MENU-001	Test Designed Date:	11/21/2021			
Test Priority:	HIGH	Test Executed By:	Mark Darling			
Module Name:	User Authentication	Test Execution Date:	11/21/2021			
Test Title:	Verify low privilege users (AL: 1-3) exit to main menu and not to higher privilege menus					
Description:	Test that low privilege users in the access level range [1,3] exit directly to the main menu and are unable to escalate their access level by selecting the menu option "[5] Exit".					
Pre-conditions:	Users must have valid USER ID and PIN credentials established in ZooData.txt file.		Dependencies:			
Test Procedure:						
STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS PASS/FAIL	NOTES
1	launch application to main menu			main menu is displayed	P	
2	select menu option: [1] Punch Clock	1	user is asked for USER ID	user is asked for USER ID	P	
3	provide valid USER ID	2345678	user is asked for PIN	user is asked for PIN	P	
4	provide valid PIN	2345	credentials accepted next menu is displayed	"Punch accepted." EMPLOYEE MENU displayed	P	
5	select menu option: [5] Exit	5	user kicked to main menu	main menu is displayed	P	
Post-conditions:	Low privilege user was able to successfully log in and then exit back out to main menu without being shown a higher-privileged menu of choices.					

Project Name:	Zoo Information System					
Test Number:	008	Test Designed By:	Mark Darling			
Test Case ID:	TC_AUTH_EXIT-MENU-002	Test Designed Date:	11/21/2021			
Test Priority:	HIGH	Test Executed By:	Mark Darling			
Module Name:	User Authentication	Test Execution Date:	11/21/2021			
Test Title:	Verify low privilege user exits to main menu and then exits application without higher privilege menus					
Description:	Test that low privilege users in the access level range [1,3] exit directly to the main menu and can then exit the application as well without inadvertently being shown menus of a higher privilege.					
Pre-conditions:	Users must have valid USER ID and PIN credentials established in ZooData.txt file.		Dependencies:			
Test Procedure:						
STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS PASS/FAIL	NOTES
1	launch application to main menu			main menu is displayed	P	
2	select menu option: [1] Punch Clock	1	user is asked for USER ID	user is asked for USER ID	P	
3	provide valid USER ID	2345678	user is asked for PIN	user is asked for PIN	P	
4	provide valid PIN	2345	credentials accepted next menu is displayed	"Punch accepted." EMPLOYEE MENU displayed	P	
5	select menu option: [5] Exit	5	user kicked to main menu	main menu is displayed	P	
6	select menu option: [5] Exit	5	exit and close application	MIDDLE MANAGEMENT MENU displayed	F	additional attempts to exit application yield additional higher- privilege menus before finally exiting
Post-conditions:	Low privilege user was able to successfully log in and then exit back out to main menu but was then presented with menus of higher privileges upon trying to exit and close the application completely.					