Project #4: Warehouse Management System

Team: Can You C My Screen?

CSCI 1110-01: Intro to C Programming

Dr. Reza Sadeghi

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Team Description

<u>Arely J. Parra López</u> - Allowing the user to view, request, and save items from the Warehouse Management System as well as providing the admin and guest user an exit function.

<u>Alexander Vita</u> - Adding, deleting, and editing items with varied details (i.e., Type, Stored Time, ID, etc) from Warehouse Management System.

Kamryn Hammond - Creating login page for admin and guest users to enter username & password for Warehouse Management System.

Team Description (cont.)

<u>Jarred Crystal</u> - Generating user-friendly software that provides a welcome page, a menu of all functions that users have access to, and tabular format of all requested information from the Warehouse Management System.

<u>Sophie Ross</u> - Allowing admin to view the list of borrowing requests as well as accept/reject borrowing requests made by guest users in the Warehouse Management System.

System Description

- O Greeted by a WMS Welcome Page with registration or login.
- O If logging in as an Admin, individual is able to:
 - View a list of usernames & passwords
 - Search for usernames & passwords in the system
 - Change usernames/passwords for admin & guest
 - Add/Remove admin & guest
 - Add/Remove/Edit items from the WMS
 - View/Search for items from the WMS
 - View list of borrowing requests from guest users
 - Accept/Deny borrowing requests from guest users

System Description (cont.)

- If logging in as Guest User, individual is able to:
 - Search for items in the WMS
 - Make a list of favorite items from the WMS
 - Request items to borrow/buy
 - View item's borrowing history
- All users can exit from the WMS when in the Login Menu, Admin Menu, or the Guest Menu.

Functions Description

Crystal:

- int loginMenu(void)
 - Allows for new registration of users and the selection of either the admin or guest login prompt
- void main(void)
 - Provides the main interface to the login menu dictating which function will be executed following user input
- int adminMenu(void)
 - Provides the menu options within the admin menu
- void admin(void)
 - Provides the main interface to the admin menu dictating which function will be executed following user input

Crystal:

- int guestMenu(void)
 - Provides the menu options within the guest menu
- void guestMain(void)
 - Provides the main interface to the guest menu dictating which function will be executed following user input

Hammond:

- int* adminLogin(void)
 - Allows admin to search for their login from the WMS inventory.
- int* guestLogin(void)
 - Allows guest users to search for their login from the WMS inventory using their private encryption key.
- void view(void)
 - Provides an organized view of all the Admin & Guest User's encryption keys, usernames, and passwords.
- int* search(void)
 - Allows the Admin to search the WMS LogIn.txt file for a specific encryption
 key, username, and password.

Hammond:

- void edit(void)
 - Allows the Admin to select a specific user from the WMS and edit their login information.
- void add(void)
 - Allows the Admin to add a new user to the WMS with an encryption key, username, and password.
- void delete(void)
 - Allows the Admin to select and delete a user from the WMS.

- void addItems (void)
 - Admin can add an item to the inventory
- int* searchItems(void)
 - Admin can search for an item within the inventory
- void editItems (void)
 - Admin can edit an items characteristics
- void deleteItems(void)
 - Admin can delete an item from the inventory
- void viewItems(void)
 - Admin can view all items within the inventory

Ross:

- Void acceptDeny(void)
 - Allows Admin to accept or deny borrowing request list from guest users.
- Void viewBorrowing(void)
 - Allows Admin to view all borrowing requests from guest users.

Parra López:

- void registration(void)
 - New individuals can create a new accounts within the WMS.
- int* searchWMS(void)
 - Guest can search for an item from the WMS inventory.
- void makeList(void)
 - Guest can make a list of favorite items from the WMS inventory.
- void viewList(void)
 - Guest can view their list of favorite items.
- void requestItems(void)
 - Guest can request to borrow/buy an item.
- void viewHistory(void)
 - Guest can view the borrowing/purchase history of items.

Variables Description

Crystal:

- int adminMenu(void)
 - int input;
- void admin(void)
 - int option;
 - char quit;
- int loginMenu(void)
 - o int input;

- int guestMenu(void)
 - int input;
- void guestMain(void)
 - int task;
 - char quit;
- void main(void)
 - int choice
 - char quit;

Hammond:

- int* adminLogin(void)
- int* guestLogin(void)
- int* search(void)
 - static int output[2]
 - char key[100]
 - char input[100]
 - FILE *myfile
 - char myString[100]
 - o int line=0
 - o int find=0
 - int fieldNumber=0
 - char quit

void view(void)

- struct entity
- char encrypt[20]
- char username[20]
- char password[20]
- struct entity new
- char myString[100]
- o int pline=0

Hammond:

- void edit(void)
 - int* place=search()
 - o int line=place[1]
 - o int find=place[0]
 - char username[20], password[20]
 - FILE *invfile
 - FILE *temp
 - char myString[100]
 - o int pline=0
 - char quit

void add(void)

- struct entity
- char encrypt[20]
- char username[20]
- char password[20]
- struct entity new
- FILE *myfile
- char quit

Hammond:

- void delete(void)
 - int* place=search()
 - o int line=place[0]
 - o int find=place[0]
 - FILE *originalfile
 - o FILE *tempfile
 - char myString[100]
 - o int pline=0
 - o char quit

- void addItems (void)
 - struct entity
 - o char Type...[100]
 - struct entity new
 - FILE *invfile
 - char quit

- int* searchItems(void)
 - static int output[2]
 - char key[100]
 - o char input[100]
 - o FILE *invfile
 - char myString[100]
 - o int line=0
 - o int find=0
 - int fieldNumber=0
 - o int pline=0

- void editItems (void)
 - int* place=searchItems()
 - \circ int find = 0
 - o int line = 0
 - char Type....[100]
 - FILE *invfile
 - FILE *tempfile
 - char myString[100]
 - o int pline=0
 - char quit

- void deleteItems(void)
 - int* place=searchItems()
 - int find=place[0]
 - int line=place[1]
 - FILE *invfile
 - FILE *tempfile
 - char myString[100]
 - o int pline=0
 - char quit

- viewItems(void)
 - FILE *invfile
 - struct entity
 - char Type....[100;
 - struct entity new
 - o char Type....[100];
 - char myString[100000]
 - o int pline=0

Ross

- void viewBorrowing(void)
 - FILE myfile*
 - struct entity
 - char Type...[100]
 - struct entity new
 - char myString[10000]
 - o int pline = 0

- void acceptDeny(void)
 - struct entity
 - o char ID[20]
 - char accept[20]
 - o char deny[20]
 - FILE myfile*
 - char quit

Parra López:

- void registration(void)
 - struct entity
 - char encrypt[20]
 - char username[20]
 - char password[20]
 - struct entity new
 - FILE *myfile
 - char quit

- int* searchWMS(void)
 - static int output[2]
 - o char ID[100]
 - o char input[100]
 - o FILE *myfile
 - o char myString[100]
 - o int line=0
 - o int find=0
 - int fieldNumber=0
 - char quit



Parra López:

- void viewList(void)
- void viewHistory(void)
 - FILE *myfile
 - struct entity
 - char Type...[100]
 - struct entity new
 - char myString[10000]
 - int pline=0

- void makeList(void)void requestList(void)
 - struct entity
 - o char Type...[100]
 - char Length[100]
 - struct entity new
 - FILE *myfile
 - char quit



Figures

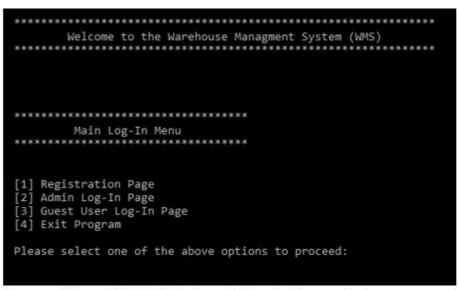


Figure 7: WMS Main Log-in Menu in Command Prompt

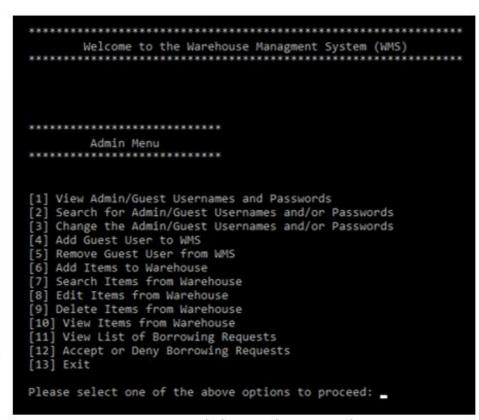


Figure 8: WMS Admin Menu in Command Prompt



Figure 9: WMS Admin/Guest User Encryption Key, Username, & Password Table in Command Prompt

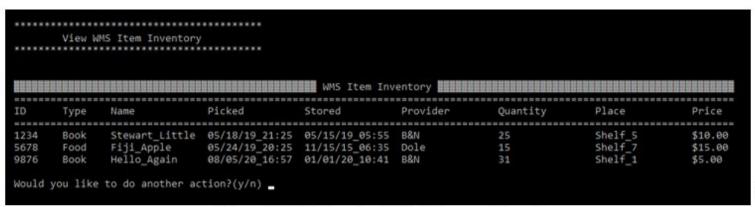


Figure 10: WMS Inventory Table in Command Prompt



Figure 11: WMS Guest User's Borrowing Requests Table in Command Prompt

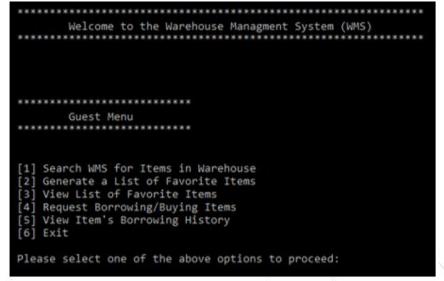


Figure 12: WMS Guest User Menu in Command Prompt

Figures (cont.)

View Saved List of Favorite Items								
			Favorite Item	ist				
tem ID	Item Type	Item Name	Item Provider	Item Quantity	Item Place	Item Price		
234	Book	Stewart Little	B&N	25	Shelf S	\$10.00		
0.70	Food	Fiji Apple	Dole	15	Shelf 7	\$15.00		
678		Hello Again	B&N	31	Shelf 1	\$5.00		

Figure 13: WMS Guest User's Favorite Items List Table in Command Prompt



Figure 14: WMS Guest User's View of Item History Table in Command Prompt

Figures (cont.)

References

- Fischer, A. E., Fischer, M. J., & Eggert, D. W. (2016, August 30). Applied Introductory C Programming - University of New Haven. Chapters from 2nd edition. http://eliza.newhaven.edu/apc/.
- 2. Sadeghi, R. (2020, December 14). *RezaSadeghiWSU/LMS*. GitHub. https://github.com/RezaSadeghiWSU/LMS.
- 3. Sadeghi, R. (2020, December 15). RezaSadeghiWSU/Calendar-Management-System. GitHub. https://github.com/RezaSadeghiWSU/Calendar-Management-System.
- 4. Sadeghi, R. (2021). passwordSystem.c. West Haven; Reza Sadeghi.

Thank You