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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.

<u>Kamryn Hammond</u> - 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

- Greeted by a WMS Welcome Page with registration or login.
- 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.
- o 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.
- o 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)
 - 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)
- o int* guestLogin(void)
- o int* search(void)
 - static int output[2]
 - char key[100]
 - char input[100]
 - o FILE *myfile
 - char myString[100]
 - o int line=0
 - o int find=0
 - int fieldNumber=0
 - o char quit

void view(void)

- struct entity
- o 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
 - 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]
 - char input[100]
 - FILE *invfile
 - o char myString[100]
 - o int line=0
 - o int find=0
 - o 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
 - o char Type....[100;
 - struct entity new
 - 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]
 - char ID[100]
 - char input[100]
 - FILE *myfile
 - 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]
 - o 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



Program Menus &

Tables

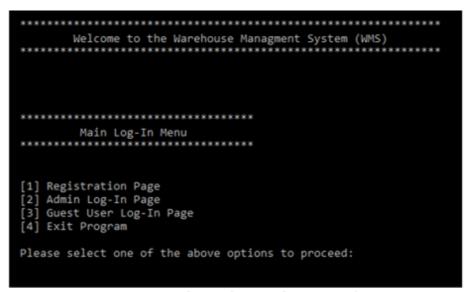


Figure 7: WMS Main Log-in Menu in Command Prompt

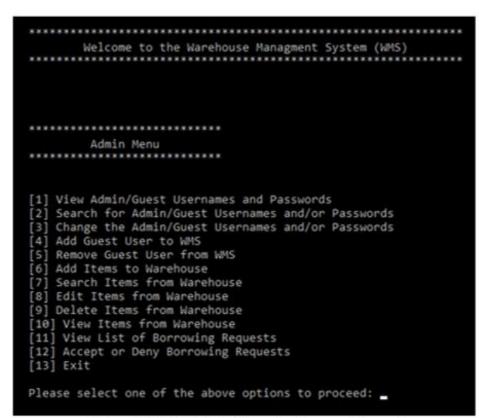
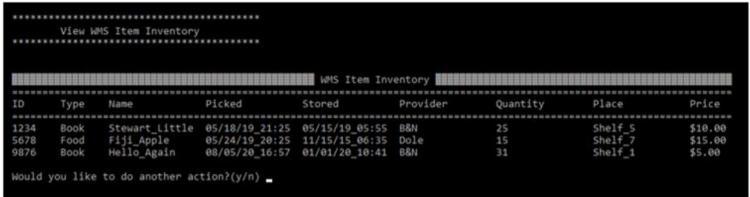


Figure 8: WMS Admin Menu in Command Prompt

Figures of Program Menus & Tables (cont.)



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



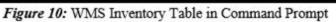




Figure 11: WMS Guest User's Borrowing Requests Table in Command Prompt

Figures of Program Menus & Tables (cont.)

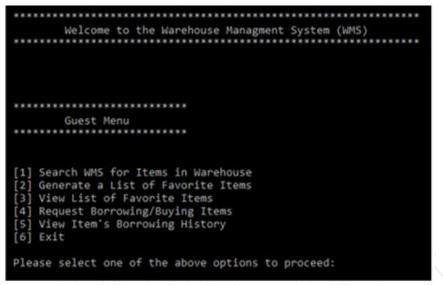


Figure 12: WMS Guest User Menu in Command Prompt



Figures of Program Menus & Tables (cont.)

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

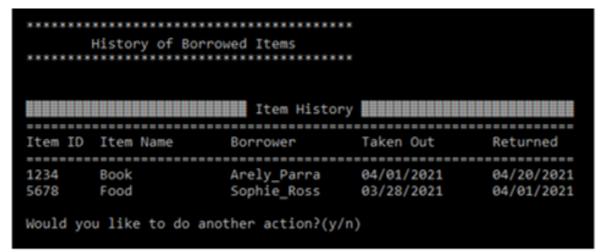


Figure 14: WMS Guest User's View of Item History Table in Command Prompt

References

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Thank You