# Project #4: Warehouse Management System

Team: Can You C My Screen?

CSCI 1110-01: Intro to C Programming

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# **Outline**

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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)
  - 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**

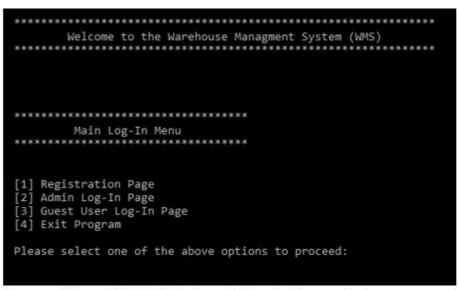


Figure 7: WMS Main Log-in Menu in Command Prompt

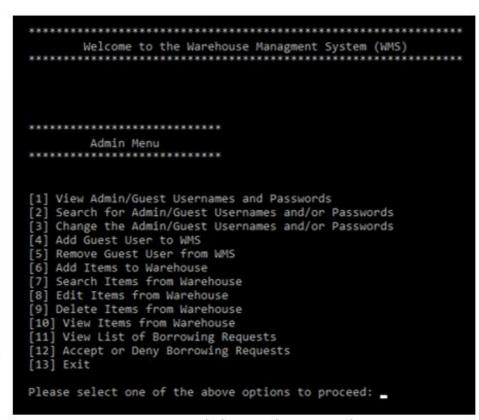


Figure 8: WMS Admin Menu in Command Prompt



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

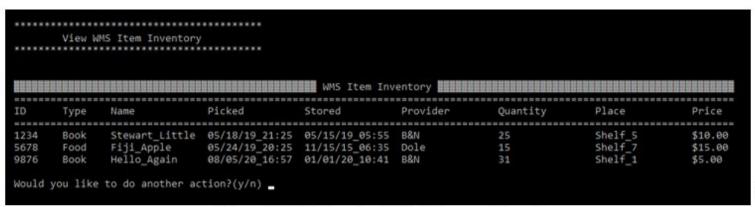


Figure 10: WMS Inventory Table in Command Prompt



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

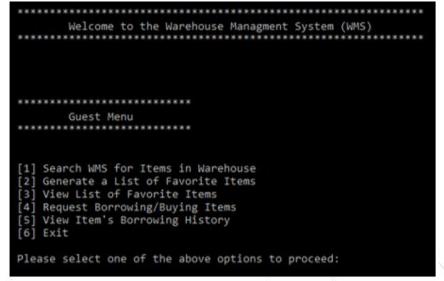


Figure 12: WMS Guest User Menu in Command Prompt

# 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