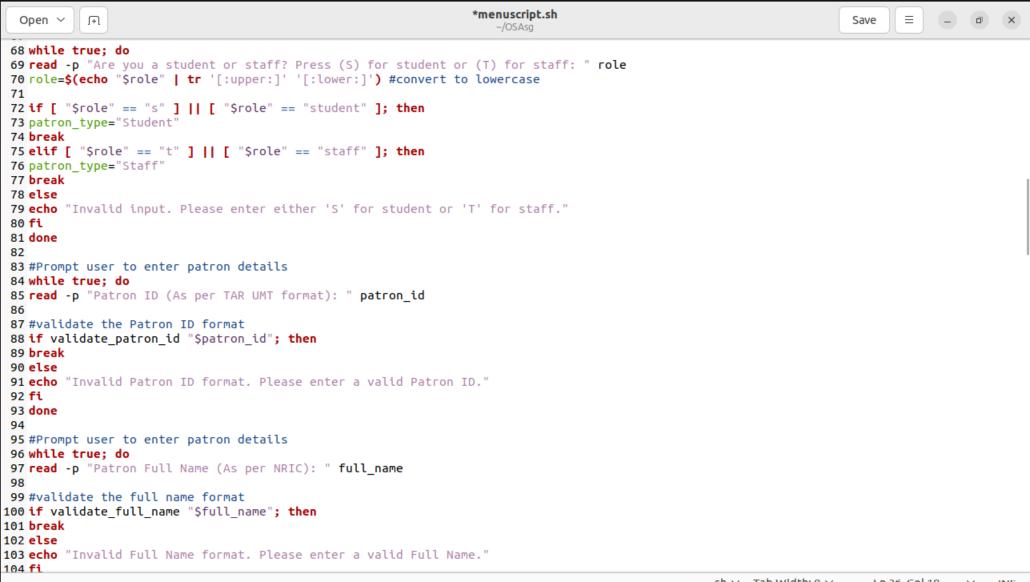
```
*menuscript.sh
                                                                                                                                   \equiv
 Open ~
           (<del>+</del>)
                                                                                                                           Save
                                                                       ~/OSAsg
 1 #File Header
 2 #=======
 3 # Author1 : Gaayadri Saravanan
 4 # Author2 : Chew Ying Ying
 5 # Date: 4/8/2023
 6 # Course: BACS2093 Operating System
 7 # Purpose: University Venue Management Menu
 8
 9 #!/bin/bash
11 #Function to validate Patron ID format
12 function validate patron id()
13 {
14 #ID as per TARUMT format
15 pattern="^[0-9]{2}[A-Z]{3}[0-9]{5}$"
16 if [[ $1 =~ $pattern ]]; then
17 return 0 #valid ID
18 else
19 return 1 #invalid ID
20 fi
21 }
22
23 #Function to validate FUll Name Format as per NRIC
24 function validate full name()
25 {
26 #Full name format
27 pattern="^[A-Za-z\s-]+$"
28 if [[ $1 =~ $pattern ]]; then
29 return 0 #valid name
30 else
31 return 1 #invalid name
32 fi
33 }
34
35 #Function to validate Contact Number format
36 function validate_contact_number()
37 {
                                                                                                       sh ~ Tab Width: 8 ~
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```

INS

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*menuscript.sh
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                                                                     ~/OSAsq
JO TUNELLON VALUAGE CONTACT NUMBER ()
37 {
38 #Contact Number Format
39 pattern="^[0-9]{3}-[0-9]{7}$"
40 if [[ $1 =~ Spattern ]]; then
41 return 0 #valid contact number
42 else
43 return 1 #invalid contact number
44 fi
45 }
46
47 #Function to validate Email format
48 function validate email()
49 {
50 #TAR UMT Email format
51 pattern="^[a-zA-Z0-9. -]+@student\.tarc\.edu\.my$"
52 if [[ $1 =~ $pattern ]]; then
53 return 0 #valid email
54 else
55 return 1 #invalid email
56 fi
57 }
59 #Function to handle Registration of New Patron
60 function register Patron()
61 {
62 echo "Option A - Register New Patron"
63
64 clear
65 echo "Patron Registration"
66 echo "========"
68 while true; do
69 read -p "Are you a student or staff? Press (S) for student or (T) for staff: " role
70 role=$(echo "$role" | tr '[:upper:]' '[:lower:]') #convert to lowercase
72 if [ "$role" == "s" ] | [ "$role" == "student" ]; then
```



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102 else
103 echo "Invalid Full Name format. Please enter a valid Full Name."
104 fi
105 done
106
107 #Prompt user to enter patron details
108 while true; do
109 read -p "Contact Number: " contact_number
110
111 #validate contact number format
112 if validate contact number "$contact number"; then
113 break
114 else
115 echo "Invalid Contact Number format. Please enter a valid Contact Number (e.g., 019-7698312)."
116 fi
117 done
118
119 #Prompt user to enter patron details
120 while true: do
121 read -p "Email Address (As per TAR UMT format): " email
122
123 #validate email format
124 if validate email "Semail"; then
125 break
126 else
127 echo "Invalid TAR UMT email format. Please enter a valid email (e.g.,rosie-wm23@student.tarc.edu.my)."
128 fi
129 done
130
131
132 #save the patron details to the patron.txt file
133 echo "${patron_id}:${full_name}:${contact_number}:${email}:${patron_type}" >> patron.txt
134
135 read -p "Register Another Patron? (y)es or (g)uit: " choice
136
137 #keep asking for patron details until the user chooses to quit
138 while [ "$choice" == "y" ] || [ "$choice" == "Y" ]; do
```

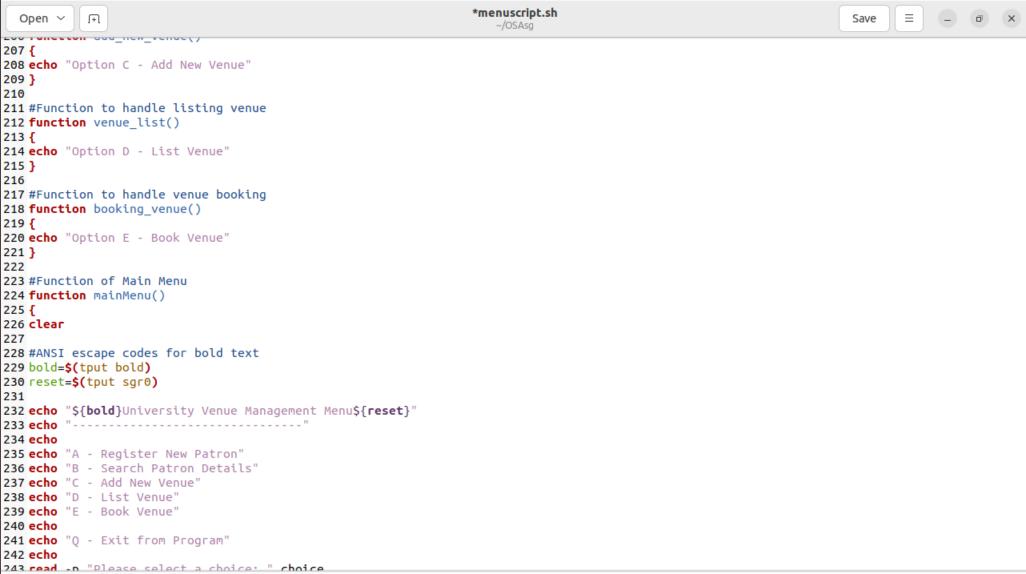
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                                                                      ~/OSAsa
130
137 #keep asking for patron details until the user chooses to quit
138 while [ "$choice" == "y" ] || [ "$choice" == "Y" ]; do
139 clear
140 echo "Patron Registration"
141 echo "========"
142 echo
143
144 while true: do
145 read -p "Patron ID (As per TAR UMT format): " patron id
146
147 #validate the Patron ID format
148 if validate patron id "Spatron id"; then
149 break
150 else
151 echo "Invalid Patron ID format. Please enter a valid Patron ID."
152 fi
153 done
154
155 while true: do
156 read -p "Patron FUll Name (As per NRIC): " full name
157
158 #validate the full name format
159 if validate full name "$full name"; then
160 break
161 else
162 echo "Invalid Full Name format. Please enter a valid Full Name."
163 fi
164 done
165
166 while true: do
167 read -p "Contact Number: " contact number
168
169 #validate the contact number format
170 if validate contact number "$contact number"; then
171 break
172 else
```

```
*menuscript.sh
                                                                                                                                 \equiv
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171 break
172 else
173 echo "Invalid Contact Number format. Please enter a valid Contact Number (e.g., 019-7698312)."
174 fi
175 done
176
177 while true; do
178 read -p "Email Address (As per TAR UMT format): " email
179
180 #validate email format
181 if validate email "Semail"; then
182 break
183 else
184 echo "Invalid TAR UMT email format. Please enter a valid email (e.g.,rosie-wm23@student.tarc.edu.my)."
185 fi
186 done
187
188 #save the patron details to the patron.txt file
189 echo "${patron_id}:${full_name}:${contact_number}:${email}:${patron_type}" >> patron.txt
190 read -p "Register Another Patron? (y)es or (q)uit: " choice
191 done
192
193 #if the user chooses to quit, return to main menu
194 if [ "$choice" == q ] || [ "$choice" == "0" ]; then
195 echo "Returning to University Venue Management Menu."
196 fi
197 }
198
199 #Function to handle searching patron details
200 function search details()
201 {
202 echo "Option B - Search Patron Details"
203 }
204
205 #Function to handle adding new venue
206 function add new venue()
207 {
```



```
232 echo "${bold}University Venue Management Menu${reset}"
233 echo "-----"
234 echo
235 echo "A - Register New Patron"
236 echo "B - Search Patron Details"
237 echo "C - Add New Venue"
238 echo "D - List Venue"
239 echo "E - Book Venue"
240 echo
241 echo "O - Exit from Program"
242 echo
243 read -p "Please select a choice: " choice
244
245 case "$choice" in
246 Ala) register Patron ;;
247 B|b) search details ;;
248 C|c) add_new_venue ;;
249 D|d) venue list ;;
250 E|e) booking_venue ;;
251 () echo "Exiting..."; exit 0 ;;
252 *) echo "Invalid choice. Please try again." ;;
253 esac
254 }
255
256 #Loop to keep the menu running until the user chooses to exit
257 while true; do
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```