## Terminal App: Team Manager Assistant

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```
Welcome to the Team Manager Assistant, before you get underway, there are several questions you must answer.
                                     What is your first name? Zac
                                    What is the name of your team? Hoopers
                                     Welcome Zac, manager of Hoopers
                                     1) View Roster
                                       2) Add Player
                                       3) Remove Player
                                       4) Ouit
                                     What would you like to do?
                                    Type in the corresponding menu number:
# A loop made to allow users to select a menu option
                                                                                        def menu_header(text):
      menu_input = input('What would you like to do?\nType in the corresponding menu number: ')
                                                                                            print(f'\n{x}\n')
                                                                                        def return_to_menu():
                                                                                            cont_loop = True
                                                                                            while cont loop:
         menu_header('Remove Player')
                                                                                                     auit()
         print('\nThanks for using the Team Manager Assistant!\n')
                                                                                                 else:
```

# The menu, with header function

print (' 1) View Roster \n') print (' 2) Add Player \n') print (' 3) Remove Player \n') print (' 4) Quit \n')

> if menu input == '1': menu header('View Roster') vr.roster\_check('view')

> > return\_to\_menu()

elif menu\_input == '2':

ap.add player() return\_to\_menu()

elif menu\_input == '3':

rp.remove\_loop()

return\_to\_menu()

elif menu\_input == '4':

quit()

menu header('Add Player')

print('\nPlease enter a valid menu number. ')

menu header('Menu')

display menu = True while display\_menu == True:

menu()

def menu():

def menu\_loop():

```
# Function to format headers for each feature of the project
   menu_item = f' {text} '
   x = menu_item.center(57, ':')
# Simple loop that allows the user to return to the menu or terminate the program,
       user_input = input('\nWould you like to return to the menu? (y/n): ')
       if user input == 'n':
            print('\nThanks for using the Team Manager Assistant!\n')
       elif user_input == 'y':
            print('\nPlease enter either y or n. ')
```

```
Would you like to add a new player to the roster? (y/n): y
What is the player's first name?: Michael
What is the player's last name?: Jordan
What is the player's jersey number?: 23
What is the player's phone number?: 0412345678
Would you like to add a new player to the roster? (y/n): y
What is the player's first name?: 55
Only alphabetical characters are allowed.
What is the player's first name?: Kobe
What is the player's last name?: Bryant
What is the player's jersey number?: 24
What is the player's phone number?: 04122334456
Integer entered must be either 8 or 10 digits.
What is the player's phone number?: 0412345679
Would you like to add a new player to the roster? (y/n): n
Would you like to return to the menu? (y/n): y
```

```
# And then saves it to a CSV file.
def add player():
   cont_loop = True
   while cont loop == True:
       user input = input('Would you like to add a new player to the roster? (y/n): ')
       if user_input == 'y':
           first name = ex.get a name("\nWhat is the player's first name?: ")
           last name = ex.get_a name("What is the player's last name?: ")
           jersey_number = ex.get_a_number("What is the player's jersey number?: ", 1, 2)
           phone_number = ex.get_a_number("What is the player's phone number?: ", 8, 10)
           content = [first_name, last_name, jersey_number, phone_number]
           with open('src/roster.csv', 'a+') as f:
               writer = csv.writer(f)
               writer.writerow(content)
       elif user_input == 'n':
           cont_loop = False
           break
```

print('\nPlease enter either y or n. \n')

# A loop that contains several functions in order to get accurate information when adding a player.

```
def alpha char check(message):
     variable = str(input(message))
     if not variable.isalpha():
         raise AlphaError('\nOnly alphabetical characters are allowed. \n')
     else:
         return variable.title()
def get_a_name(message):
    variable = None
    valid input = False
    while not valid_input:
       try:
            variable = alpha_char_check(message)
            if variable.isalpha():
                return variable
       except AlphaError as err:
           print(err)
        except ValueError:
           print('\nPlease enter a name! (Alphabetical characters only). \n')
        else:
            valid input = True
            return variable
```

```
def len_num_check(message, val1, val2):
    variable = input(str(message))
    len_count = len(variable)
    while True:
        if not variable.isnumeric():
            raise NumError('\nOnly numerical characters are allowed. \n')
        elif len_count == val1:
            return variable
        elif len_count == val2:
            return variable
        else:
            raise LenError(f'\nInteger entered must be either {val1} or {val2} digits. \n')
```

```
View Roster ::::::::::::::::
First Name | Last Name | Jersey Number |
                                 Phone Number
 Michael
             Jordan
                         23
                                  0412345678
   Kobe
             Bryant
                          24
                                  0412345679
  LeBron
                                  0455667788
             James
                          6
  Nikola
             Jokic
                         15
                                  0488992288
            McMuffin
                         12
                                  0397887790
  Cheese
```

```
def display_roster():
                                                   def roster_check(filler):
   with open('src/nameteam.csv') as f:
                                                       rowcount = 0
       reader = csv.reader(f)
       reader.__next__()
                                                       for row in open('src/roster.csv'):
       for row in reader:
                                                           rowcount += 1
           team = f' \{row[1]\}
           x = team.center(57, ':')
                                                       if rowcount <= 1:
           print(x)
                                                           print('You need to add players before you can ' + filler + ' the roster! ')
                                                           return
   with open('src/roster.csv', 'r') as f:
                                                       else:
       mytable = from_csv(f)
                                                           display_roster()
       print(mytable)
```

```
First Name | Last Name | Jersey Number | Phone Number
 Michael
          Jordan
                    23
                           0412345678
                    24
                           0412345679
   Kobe
          Brvant
  LeBron
          James
                    6
                           0455667788
                    15
  Nikola
          Jokic
                           0488992288
         McMuffin
                    12
  Cheese
                           0397887790
```

Do you want to remove a player from the roster? (y/n): y Enter the first name of the player you would like to remove?: cheese Are you sure you want to remove Cheese? (y/n): y

Successfully removed Cheese

```
def remove_loop():
    cont loop = True
    roster = pd.read_csv('src/roster.csv', index_col ='First Name')
    vr.roster_check('remove players from')
    while cont loop == True:
        remove player loop = input('\nDo you want to remove a player from the roster? (y/n): ')
        if remove_player_loop == 'y':
            user_input = ex.removal_checker('Enter the first name of the player you would like to remove?: ')
            drop confirmation = input('Are you sure you want to remove ' + user input + '? (y/n): ')
            if drop confirmation == 'v':
                roster.drop(user input, axis = 0, inplace = True)
                roster.to csv('src/roster.csv')
               print('\nSuccessfully removed ' + user_input +'\n')
                loop break = input('Would you like to remove another player? (v/n): ')
               if loop_break == 'n':
                    cont loop = False
                   break
           elif drop confirmation == 'n':
                cont_loop = False
               break
                print('\nPlease enter either v or n. ')
       elif remove player loop == 'n':
            cont_loop = False
            return
            print('\nPlease enter either y or n. ')
```