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T1A3 - TERMINAL APP - QUIZ BITES

AGENDA

- Main features
- The logic of the Terminal application and code
- Review of the development/build process including challenges, ethical issues, favourite parts
- Overview of code important parts of the code

MAIN FEATURES

- User login authentication will parse through and read the user database stored in a JSON file
 - Check if there is an existing username and match the username to the inputted password
 - If the login is successful, it will check to see what the access level is granted for the user and display the appropriate menu
 - An error message will be raised if no username is found. User will be able to create a new account based on the lower access
- Superuser/Faciliator menu option
 - Create new user/view existing users written and read via JSON file
 - Create new quiz questions/view existing quiz questions written and read via CSV
 - Menu is generated using TTY Prompt to avoid errors in selecting options
- Student menu option
 - User selects a subject which will read the appropriate CSV quiz file, it will select a question at random where user will input answer. Once quiz is finished output results to user

been added

LOGIC

- User can input username and password
- Program will determine their access level based on what permission is assigned to that username (stored in JSON file)
- Superuser/facilitator will have a higher access level with more options available to select from
- Application designed as a learning program for students

CHALLENGES

- THE INITIAL IDEA/MEETING CRITERIA
- INITIAL IDEA SIMPLICITY VS THE DEPTH REQUIRED WHILST PLANNING
- BREAKING CODE DOWN INTO SMALLER PIECES VS LOOKING AT OVERALL
- TRYING TO GET FROM START TO FINISH WITHOUT THINKING OF THE INBETWEEN
- TROUBLESHOOTING/CLASSES
- MAKING IT DRY

FAVOURITE PARTS

- WHEN THE CODE DID WHAT WAS EXPECTED OF IT
- SEEING IT ALL COME TOGETHER
- LEARNING WHAT WORKED/WHAT DIDN'T
- THE CODING ITSELF

```
list_of_users = JSON.parse(File.read("json/users.json"), symbolize_names: true)
user = list_of_users.find { |user| user[:username] == input_username}
if user[:password] == input_password
```

Reading and writing into JSON file. Using prompt where appropriate to ensure that input will be valid

```
f superuser_menu == "Create New User"

puts "What is the new user's full name?"

input_new_user = gets.chomp

puts "What username would you like to assign to this user?"

input_new_username = gets.chomp.capitalize.strip

puts "Assign @ password for this user:"

input_new_password = gets.chomp.strip

input_is_newuser_superuser = prompt.select("Is this new user @ Facilitator or Student?") do |accesslevel|

accesslevel.choice 'Facilitator'

accesslevel.choice 'Student'

end
```

```
newuser = {
    fullname: input_new_user,
    username: input_new_username,
    password: input_new_password,
    accesslevel: input_is_newuser_superuser
}
file = File.open('json/users.json', "r+").read
array = JSON.parse(file)
array.push(newuser)
json = JSON.generate(array)
File.write('json/users.json', json)
```

```
if student menu == 'English'
    englishquizlist = CSV.read("csv/english quiz questions.csv")
    index = 0
    score = 0
    answer = ""
    while index < 10 do
        "Choose which is correct from the following options or type exit to leave the program:"
        quiz question = englishquizlist.sample
        output question = quiz question.values at(0..4)
        puts output question
        answer = gets.chomp
        if answer == quiz question[-1]
            score += 1
        elsif answer == "exit"
            puts pastel.cyan(font.write("Thank you!"))
            exit
        end
        index += 1
    end
    result = case score
    when 0..3 then puts "Your score was #{score}. There is room for improvement"
    when 4..7 then puts "Your score was #{score}. Well done"
    when 8..10 then puts "Your core was #{score}. Amazing work!"
    end
```

- Reading from a CSV file
- Picking a sample array to produce a random question from the list
- Outputting array indexes 0-4 only
- If student's answer input is equal to the last index (5) in array, it will increase the score
- Quiz will run through 10 questions
- Currently: Total score will output using a case statement dependent on what the score total is

Thank you