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Report on – GkQuiz

Course Code: <CODE>



Version Number:

Team Members :

Team No:

Module: Model Based System Engineering

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| --- | --- | --- | --- | --- | --- |
| **Ver. Rel. No.** | **Release Date** | **Prepared. By** | **Reviewed By** | **Approved By** | **Remarks/Revision Details** |
| 1 | 12/02/2022 | Omkar Chitragar |  |  |  |

**Document History**

# Description

## GkQuiz:

This quiz is designed to test the general knowledge of the user and help the user with an knowledge update. The user can take up the quiz by entering their credientials. Depending upon the user's score in the quiz, the user is provided with good/average/poor general knowledge as a result. User can end the quiz with end option and restart the quiz with restart option.

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# Requirements

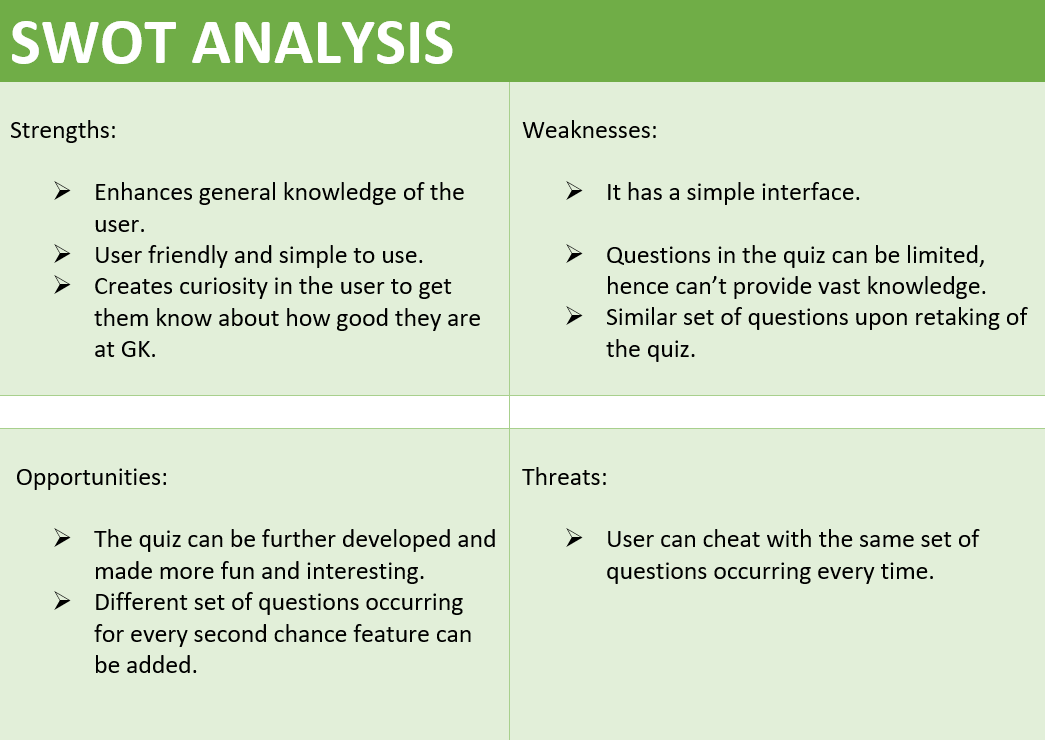
## High Level Requirements

* Feature of my project:
  1. Participate in quiz.
  2. View the result.
  3. End the quiz.
  4. Restart the quiz.

## Low Level Requirements

* How each features is implemented:
  1. Prints the statement asking the creadintials such as name of the user for the particapation in the quiz.
  2. Displays the multiple choice general knowledge questions to the user.
  3. Takes input as right/wrong answer from the user.
  4. Displays result upon completion of the quiz.
  5. Provids user with end option to end the quiz.
  6. Provids user with restart option to restart the quiz.

## SWOT

[](https://user-images.githubusercontent.com/42509490/153286605-2b3fae1f-2164-4568-a48f-b2b75c0bda07.png)

## 4W's & 1H

* What?

The project is a simple solution for a general knowledge test as well as for the knowledge update of the user.

* Who?

Anybody who wants to test their general knowledge and be knowledge updated can take up the quiz.

* When?

When the user wants to ehance his/her's knowledge.

* why?

The user will be aware of the things based on the knowledge obtained by taking up the quiz.

* How?

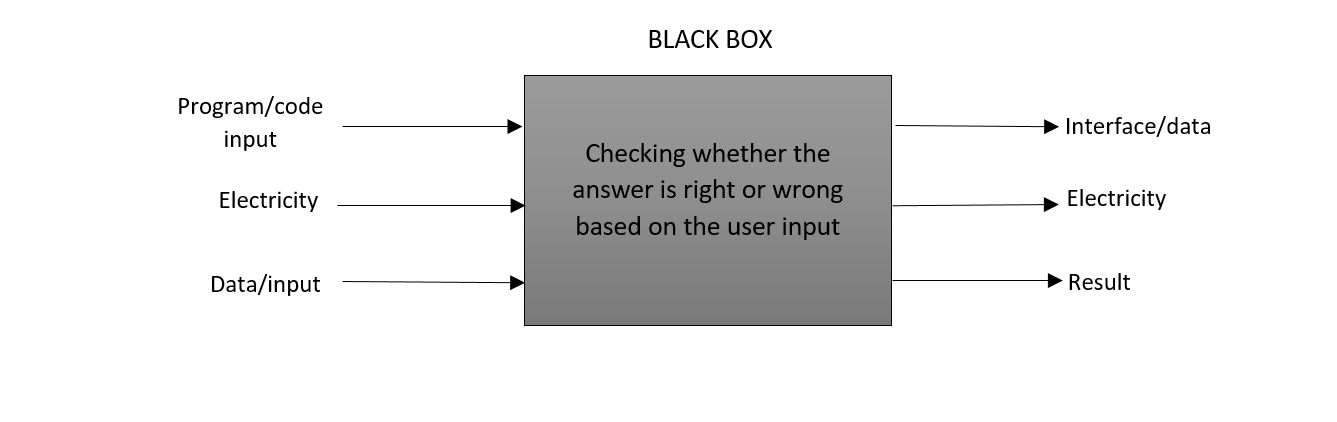
By implementing a simple C program this solution can be achived.

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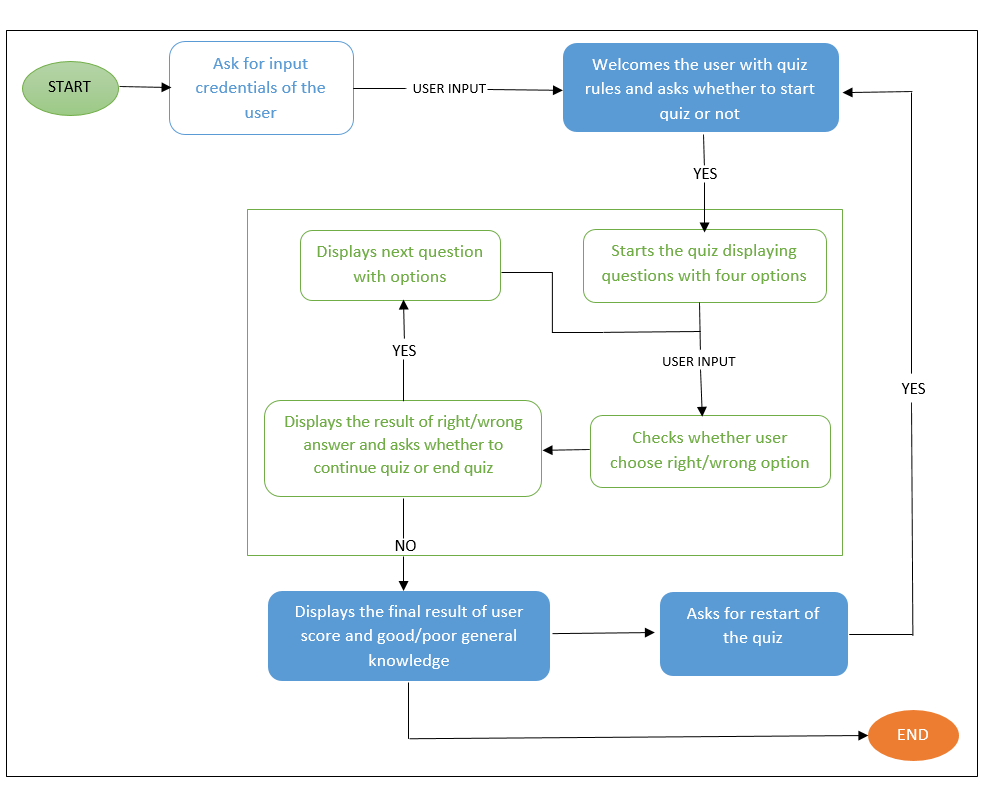
# Architecture

## Design

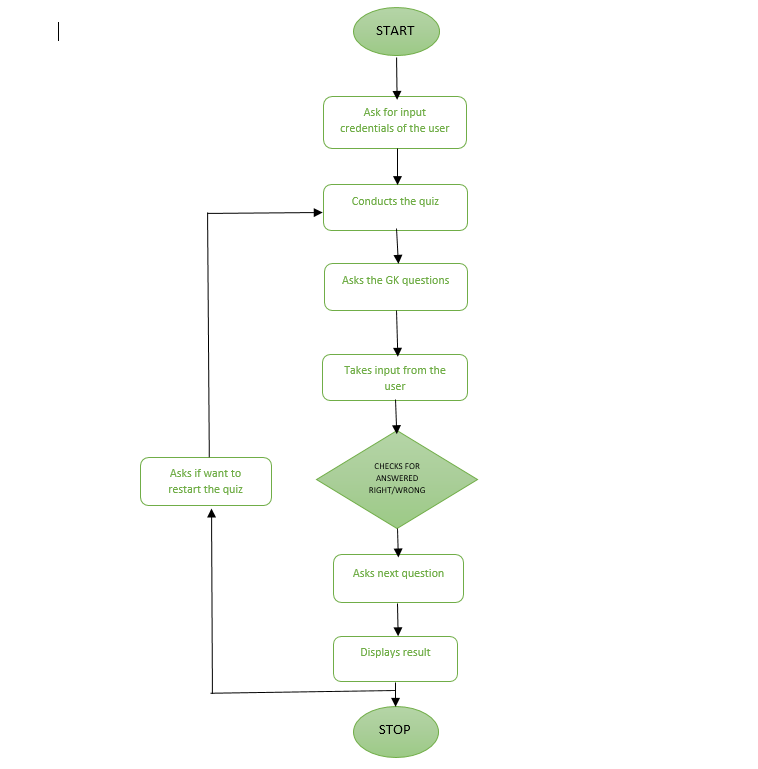
## Structural diagram: Black box

[](https://user-images.githubusercontent.com/42509490/153348755-d2583dae-5560-4f6e-b13c-ab75afec00ac.png)

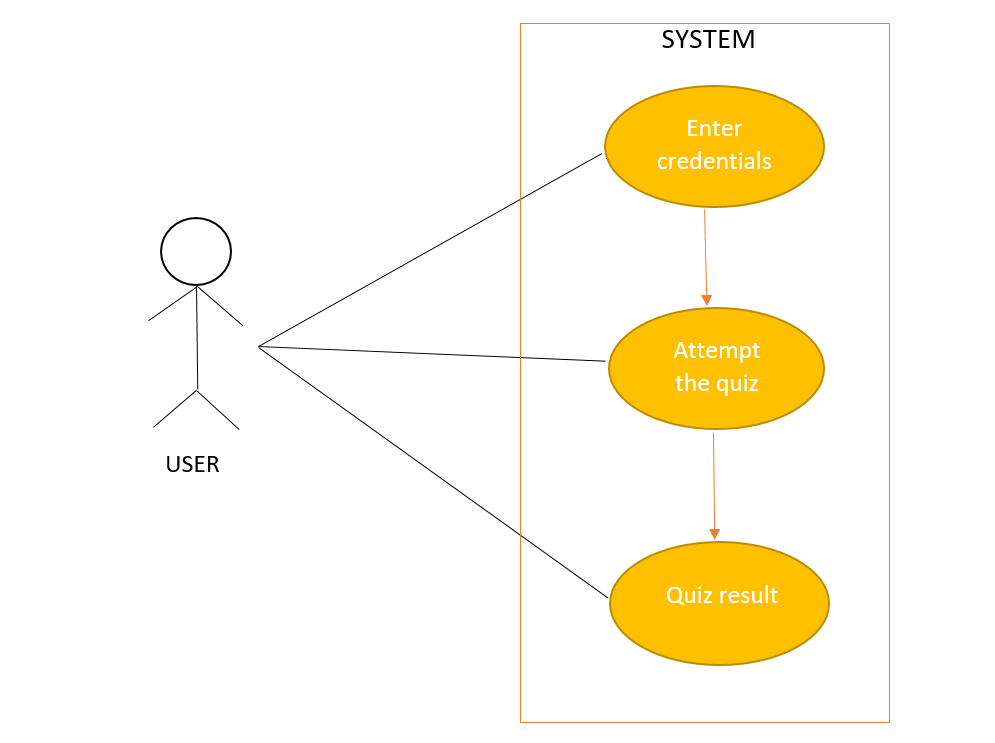
## Functional diagram:

[](https://user-images.githubusercontent.com/42509490/153705708-c588a4fc-c9a4-4606-9036-84a72da7d91b.png)

## Behavioural diagaram: Flowcharts

[](https://user-images.githubusercontent.com/42509490/153705620-98496a79-70c6-4291-aa63-8883d120d18f.png)

## Usecase diagram:

[](https://user-images.githubusercontent.com/42509490/153346897-d2576243-e63c-49e8-82ce-f44e833a7052.png)

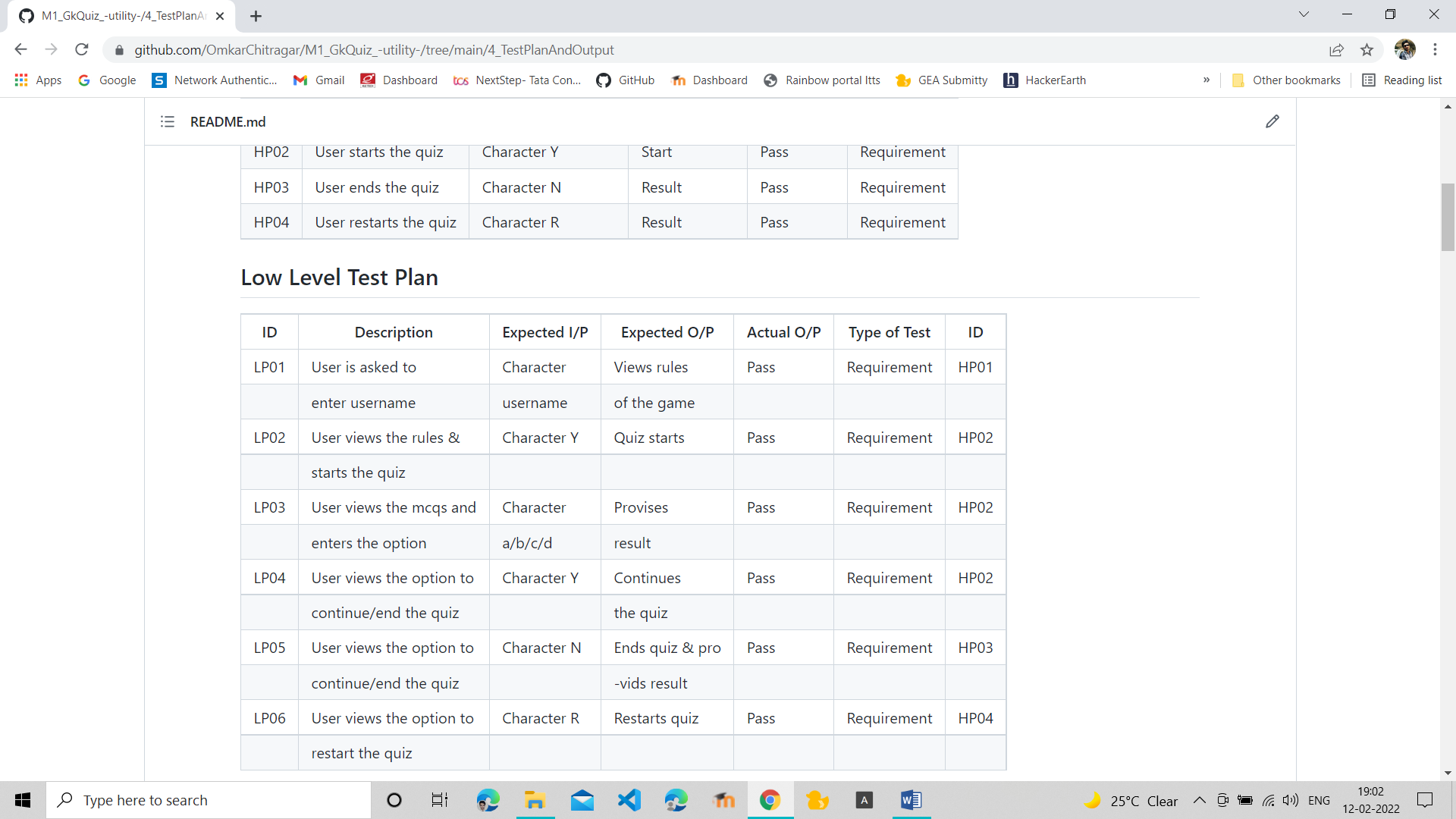
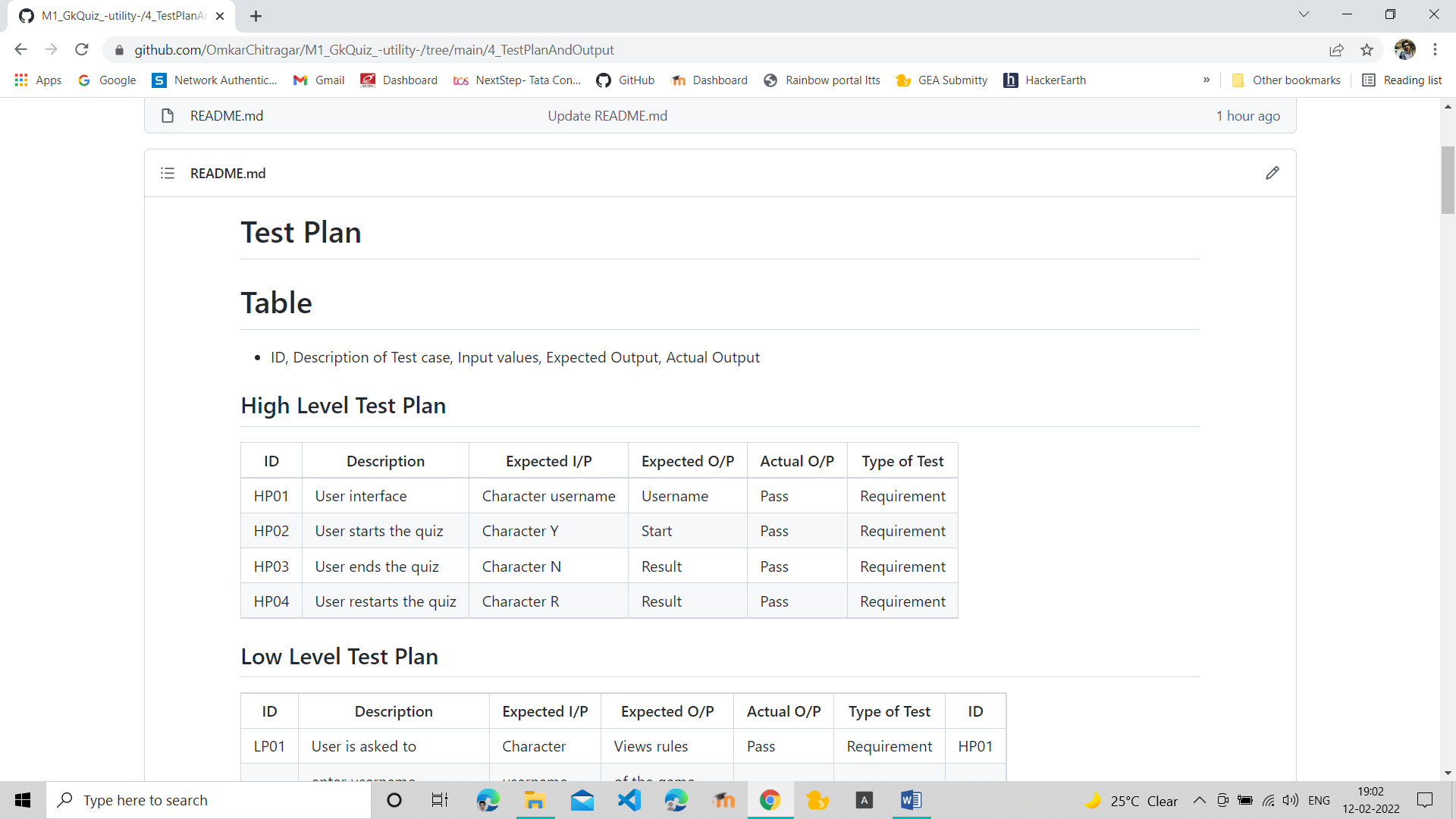
# Implementation

* In C programming

# Test Plan

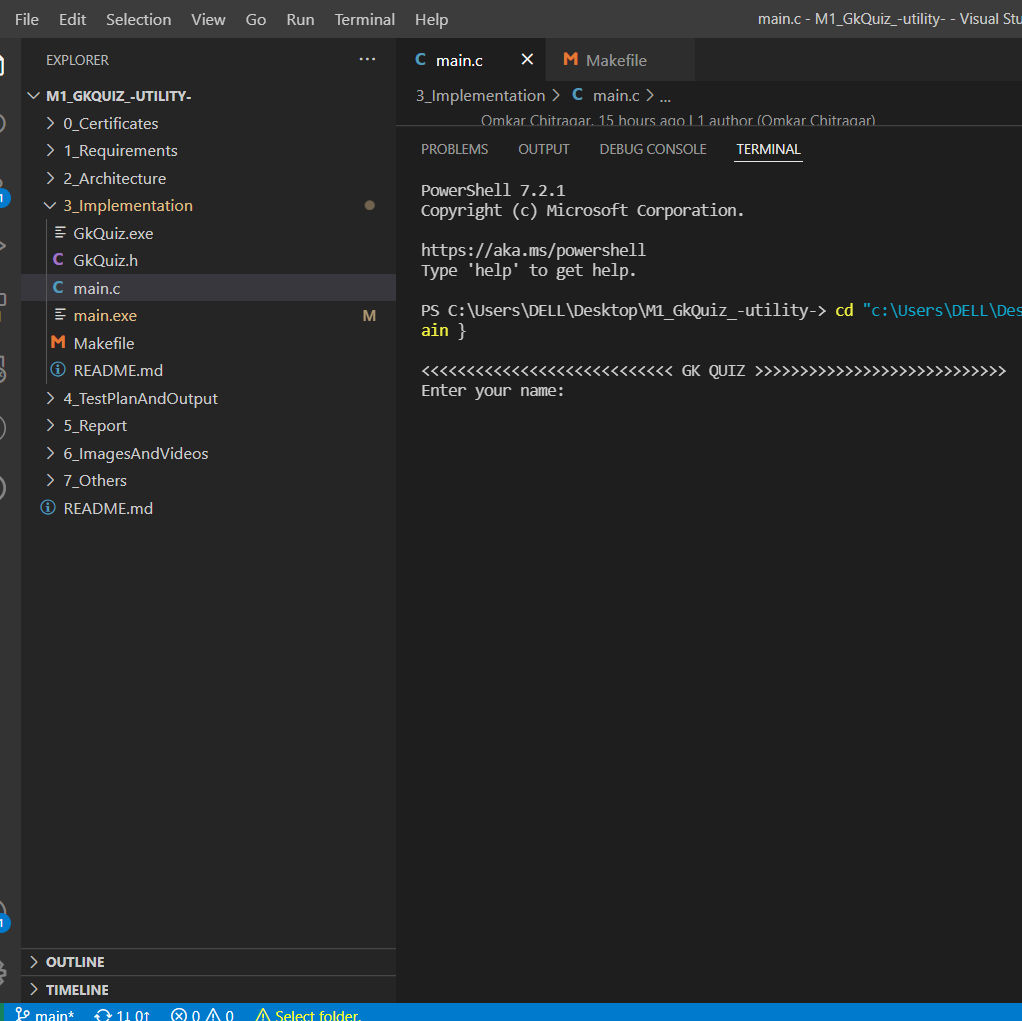
# Table

* ID, Description of Test case, Input values, Expected Output, Actual Output

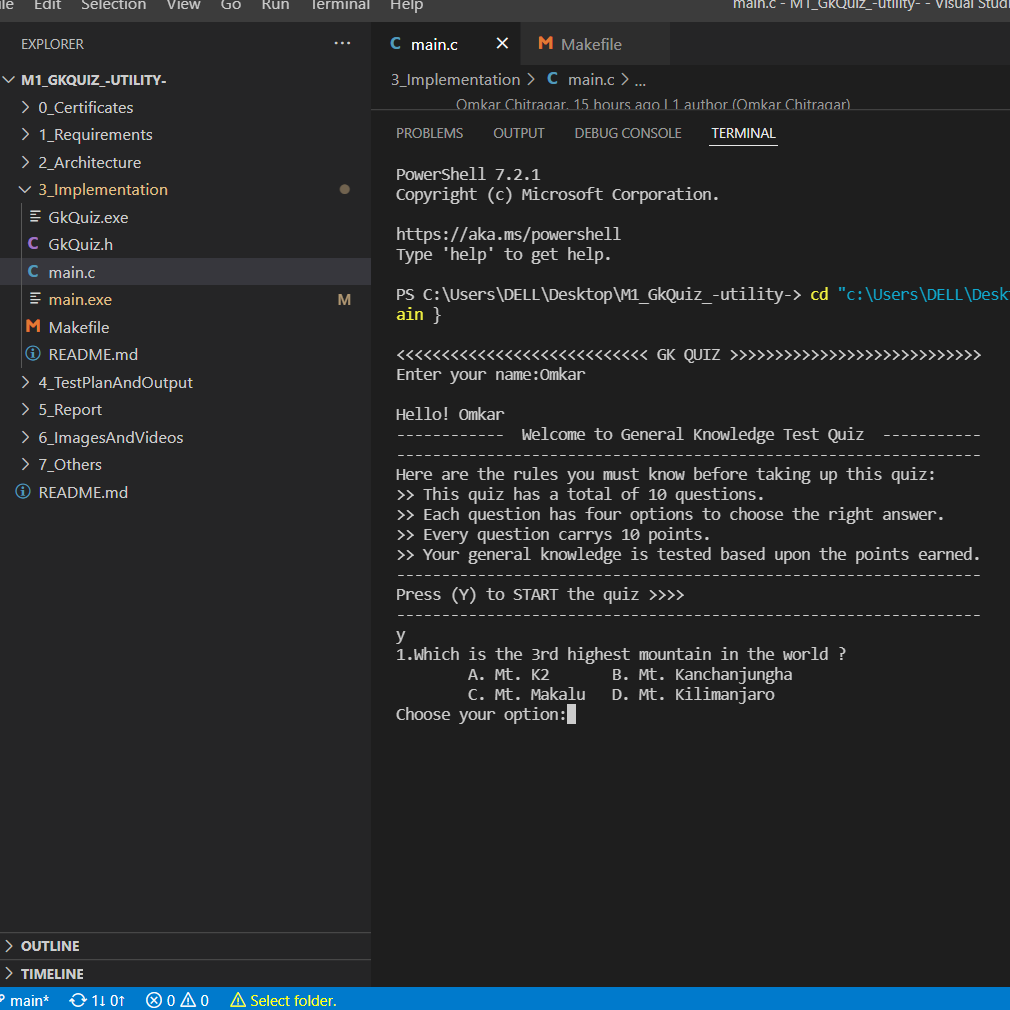


## Test Plan Outputs

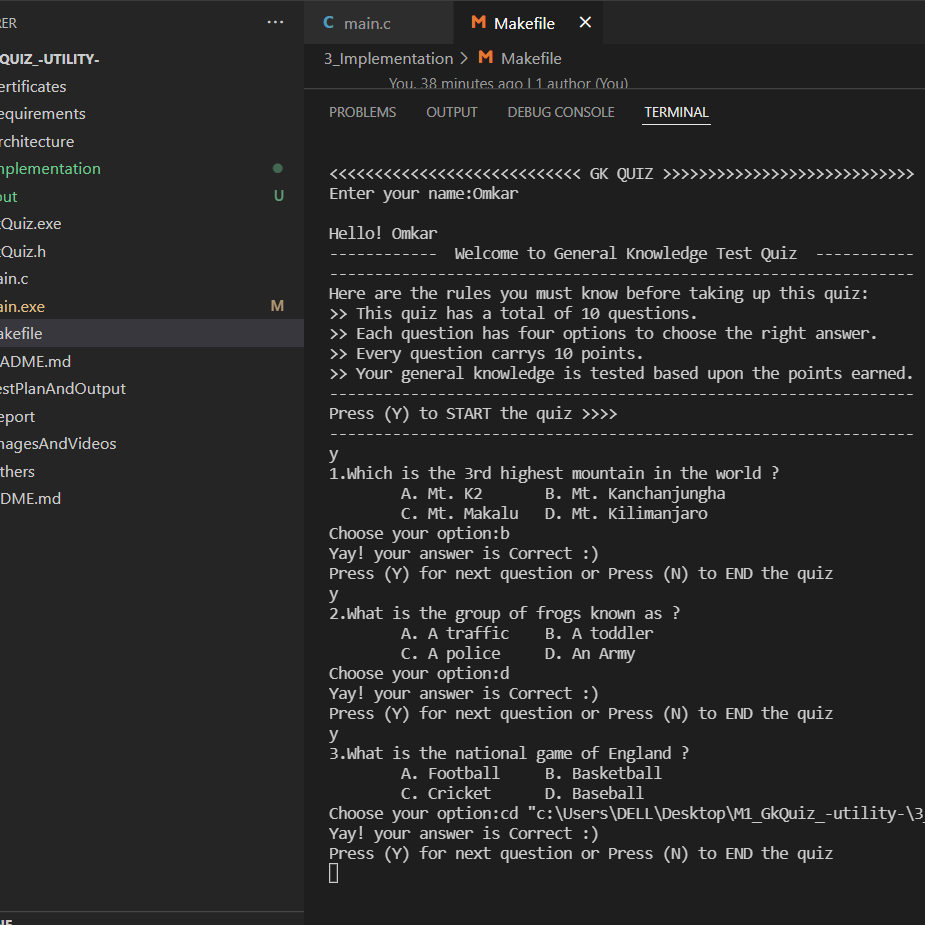
* Interface Output:

[](https://user-images.githubusercontent.com/42509490/153711501-1200e7af-e79c-42ba-ad1b-cf8bf65bbffd.png)

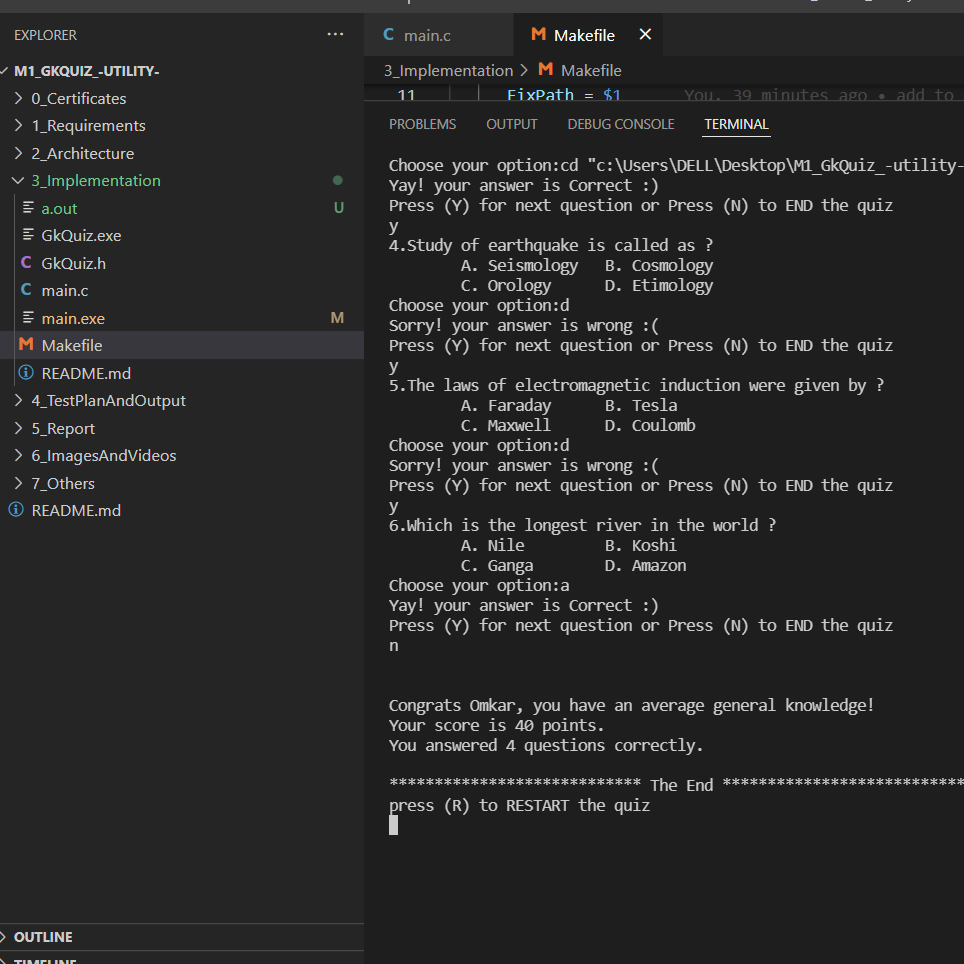
* User enters the username and starts the quiz:

[](https://user-images.githubusercontent.com/42509490/153711526-3822287f-d92c-4935-84d9-d38d3ee92144.png)

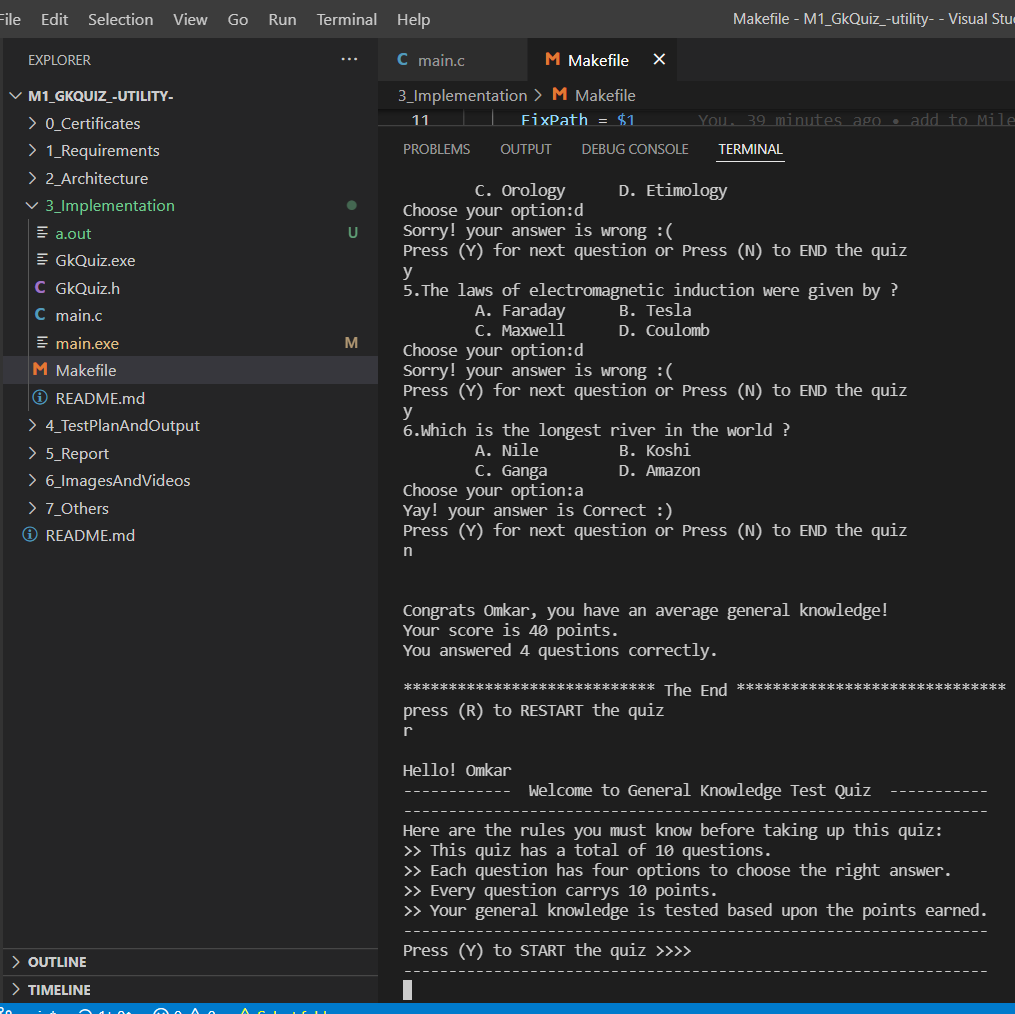
* User attempts the quiz entering optiona a/b/c/d and gets result output:

[](https://user-images.githubusercontent.com/42509490/153711675-f219ac6e-7480-4ca7-aaf3-cd604294dca3.png)

* User ends the quiz:

[](https://user-images.githubusercontent.com/42509490/153711721-de262028-2f0c-4931-a4ba-98d02c51c065.png)

* User restarts the quiz:

[](https://user-images.githubusercontent.com/42509490/153711745-34990b79-02fd-4357-b6f3-0815fa8f5b07.png)

THANK YOU!