



THE QUIZ APPLICATION

Hishaam Basheer (764002894)
Ahmed Saeed (421008064)
Sharifa BinSulaiman-ALMalik(402008070)

INTRODUCTION

- This Assignment is about designing a Java based quiz application with GUI
- The Quiz includes Multiple Choice Questions and True/False Questions
- The goal is to make the quiz engaging ,easy to use and visually appealing

THE TASK AT HAND

To build a quiz application that is user-friendly and engaging, and unique by combining an interactive UI, competitive features, and an efficient scoring system, to ensure that the quiz is visually appealing and well structured

BEST UI/UX DESIGN PRACTICES

Practices	Source
<ul style="list-style-type: none">• Reuse components• Accessibility• Feedback testing	The UX Writers Guide to Figma from figma.com
<ul style="list-style-type: none">• Reuse components• Use a predictable and cohesive interface• Minimize redundant work	Importance of Design of Consistency from uxpin.com
<ul style="list-style-type: none">• Accessibility/User-Centric Design• Clarity and Simplicity• Feedback testing	Best UX design Practices from lucidspark.com

BEST UI/UX DESIGN PRACTICES

Get out your calculators!

Full Screen

Skip

118

Solve:

$1024 \times 768 = ?$

0

Answers

▲ I'm finished! That was easy!

◆ Done! Interesting challenge!



● Complete! I broke a slight sweat!

■ Finally! Let's not do this again...

BEST UI/UX DESIGN PRACTICES



BEST UI/UX DESIGN PRACTICES

Up Next

Knowledge Check

[START KNOWLEDGE CHECK](#)

Start by: Tomorrow 11:29 PM

[Continue Module Progress](#)

[Review for Knowledge Check](#)

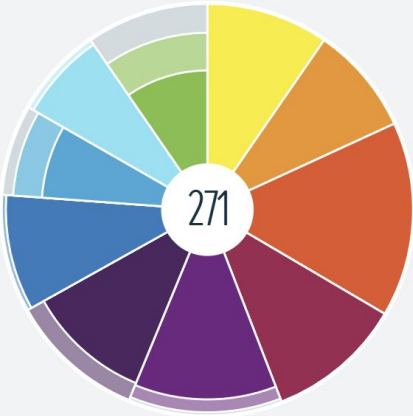
PLACEMENT ASSESSMENT

Attempt: 3 of 3
Time Limit: 2h 0m
Proctored ⓘ
LockDown Browser

[START](#)

Module: Prep for Calculus

Expires: 03/06/2025



[Take the Knowledge Check Now](#)
You must start within 24 hours.

[Review for Knowledge Check](#)
Review previously learned topics before starting the Knowledge Check.

[Exponents and Polynomials](#)
(43 Topics)

[Lines and Systems](#)
(30 Topics)

[Functions and Graphs](#)
(34 Topics)

[Rational Expressions](#)
(30 Topics)


[Radical Expressions](#)
(26 Topics)

[Exponentials and Logarithms](#)

[ALEKS Pie Detail](#)

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BEST UI/UX DESIGN PRACTICES

Proctoring Enabled: QUIZ 1 

Submitted

10/10 Total points awarded [Help](#) [Exit](#)

1

Function of Golgi apparatus

1.1/1.11 points awarded


Scored


Which of the following gives rise to both lysosomes and vesicles?

Multiple Choice


☐ rough endoplasmic reticulum

☐ mitochondria

☒ Golgi apparatus 



[< Prev](#)

1 of 9 

[Next >](#)

COMPETITOR ANALYSIS

The two most widely known quiz sites are Quizizz and Kahoot.

- PvP
- Powerups to shake up the tempo
- Purple
- Not very balanced
- Immediate feedback



COMPETITOR ANALYSIS

The two main platforms used by RIT Dubai are McGrawHill Education and Aleks (Also from McGrawHill)

- Lockdown Browser
- Individual Attempts
- Provides helpful hints
- No feedback until after the quiz

**Mc
Graw
Hill
Education**



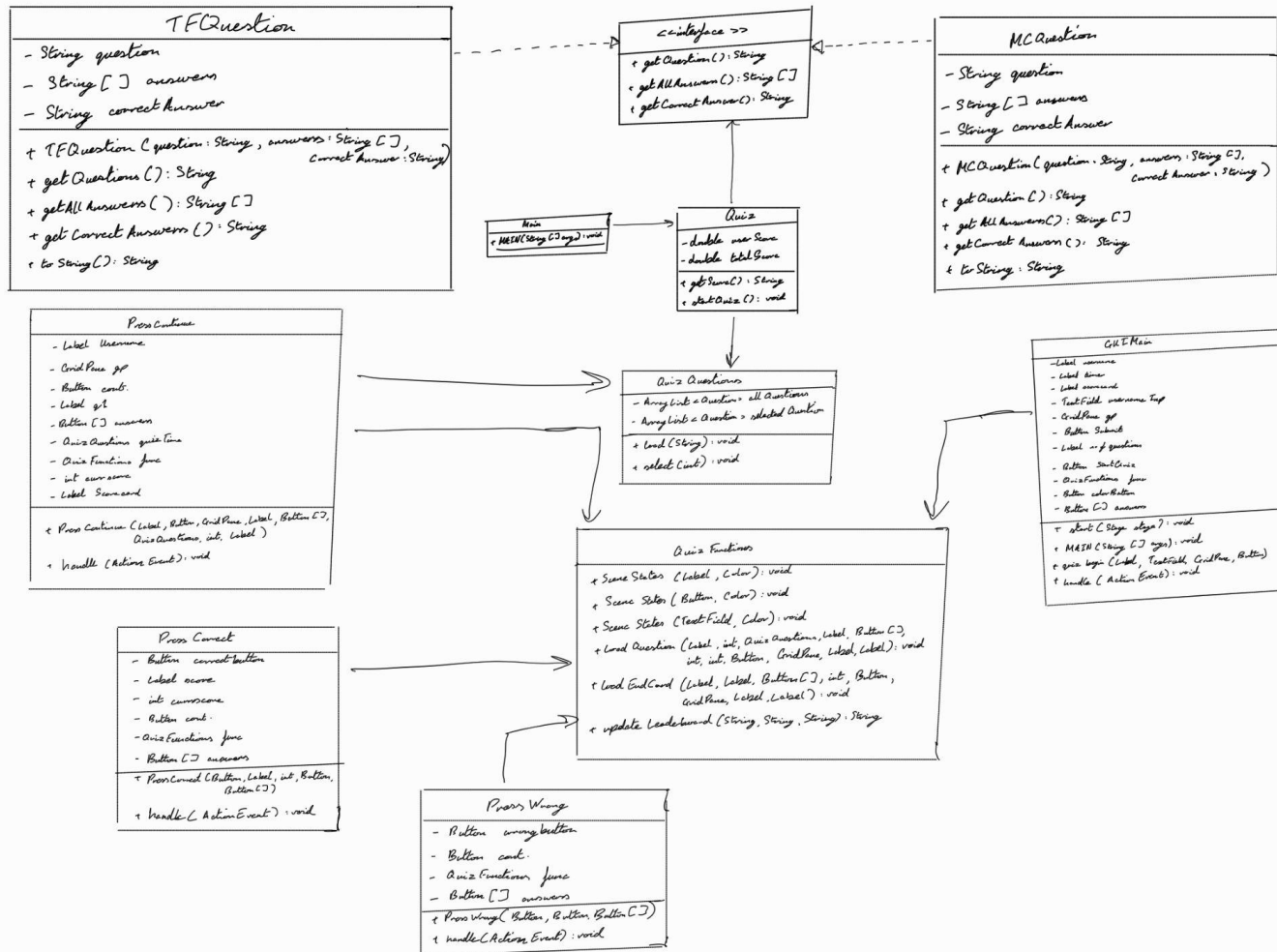


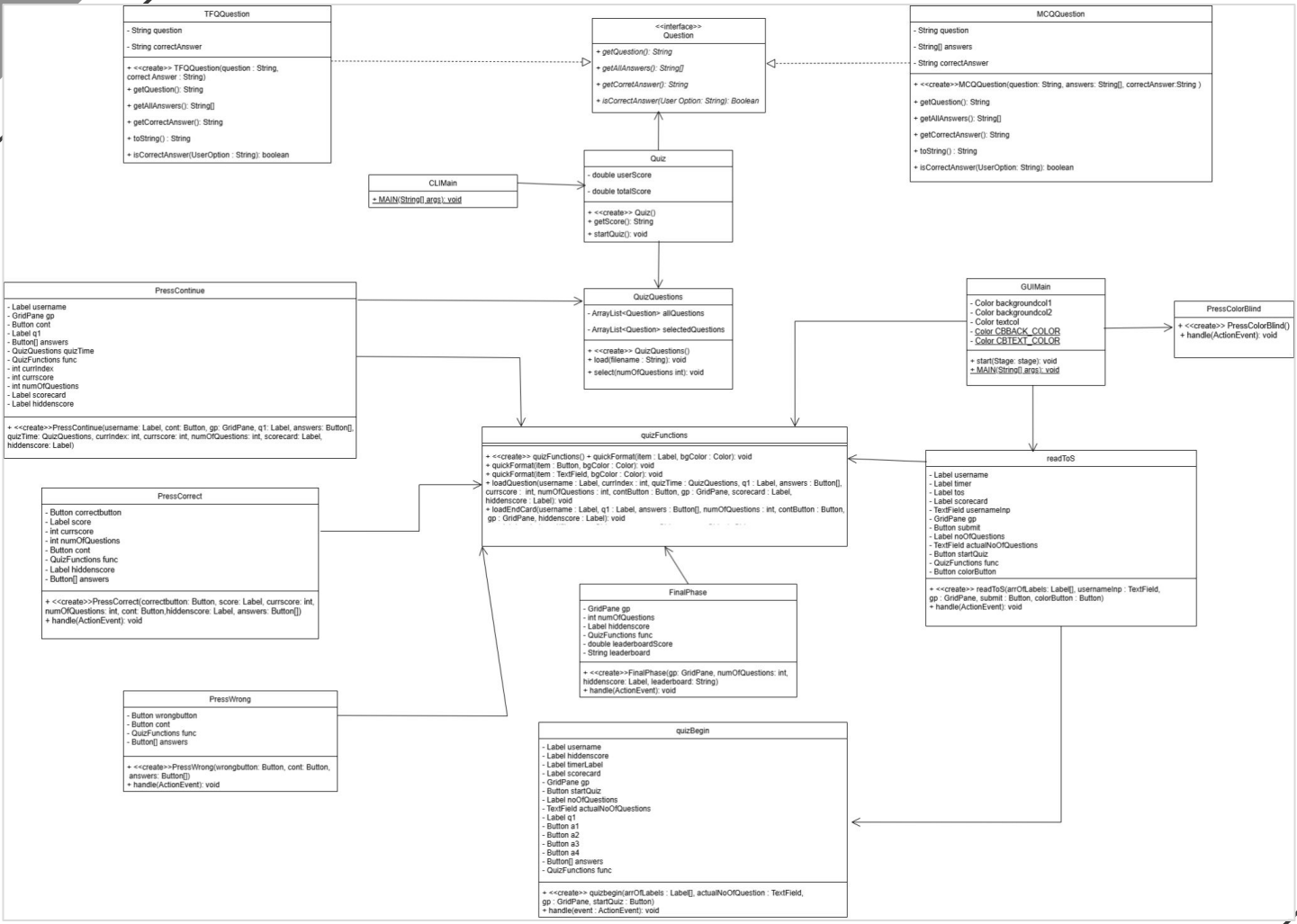
COMPETITIVE ADVANTAGES

Why Our Quiz is Better !

- Instant feedback
- A colourblind high contrast mode
- The ability to select the number of questions you wish to answer

Name	1/10	5:00
Question		
Option 1		
Option 2		
Option 3		
Option 4		
Next	Back	







FEATURES

- Building the GUI: Making sure its attractive
- Leaderboard
- Timer



WHAT MAKES US STAND OUT

- Terms of Service
- Colorblind Mode
- Variable Difficulty

Our High Contrast Colors for Colour Blind Mode

#1F449C #F05039

OUR CHALLENGES

ENSURING THE UML IS
ACCURATE

Handled

CHALLENGES INCLUDE
COMPLEXITY WITH
TEXT-TO-SPEECH

Not Implemented

MINIMIZING ARGUMENTS
REQUIRED FOR CLASS
CONSTRUCTION

Handled

Handled

MAKING SURE THE USER
CANNOT CHANGE ANSWERS

FUTURE IMPROVEMENTS

- More Question types!
- Text-To-Speech
- Multiplayer Mode
- Dark Mode Options
- Sound effects after separate actions
- More Difficulty Options

CONCLUSION

- We built a structured and user friendly quiz using Java and GUI
- Future updates will enhance features and user experience

<p>Rules</p> <ol style="list-style-type: none"> 1. NO CHEATING (trust me its an easy quiz) 2. You are given a minute of time for the number of questions you choose to answer 3. Once you select an answer, you cannot change it and must move onto the next question 4. For each correct answer you get 1 point, and there is no negative marking for incorrect answer 5. Your score will be recorded on a leaderboard with other people who attempt the quiz 6. If you suffer from any form of color-blindness, click the second button before beginning the quiz. It will change the visibility to a high contrast mode for easier visibility 7. The quiz will complete upon the final question being answer or the timer running out. <p>Good Luck!</p>
Enter your name: <input type="text"/>
Begin Quiz
Click here for colour blind mode

<p>Rules</p> <ol style="list-style-type: none"> 1. NO CHEATING (trust me its an easy quiz) 2. You are given a minute of time for the number of questions you choose to answer 3. Once you select an answer, you cannot change it and must move onto the next question 4. For each correct answer you get 1 point, and there is no negative marking for incorrect answer 5. Your score will be recorded on a leaderboard with other people who attempt the quiz 6. If you suffer from any form of color-blindness, click the second button before beginning the quiz. It will change the visibility to a high contrast mode for easier visibility 7. The quiz will complete upon the final question being answer or the timer running out. <p>Good Luck!</p>
Hishaam2
Begin Quiz
Click here for colour blind mode

Hishaam	0/0	Timer
How many questions do you want?(0-10)	5	Start Quiz

Hishaam2	0/0	Timer
How many questions do you want?(0-10)	5	Start Quiz

Hishaam	0/5	4:52
In cybersecurity, what does "phishing" refer to?		
A method to steal data via fake websites		
A type of computer virus		
A firewall technique		
A password cracking method		

Hishaam2	1/3	2:41
Which command is used to print output in Python?		
print()		
echo()		
display()		
out()		

Hishaam	1/5	4:38
In cybersecurity, what does "phishing" refer to?		
A method to steal data via fake websites		
A type of computer virus		
A firewall technique		
A password cracking method		
Correct Continue!		

Hishaam	1/5	4:27
What is Python?		
A coding language		
A cake		
A snake		
I don't know		
Continue!		

Hishaam2	2/3	2:34
Which command is used to print output in Python?		
.print()		
.echo()		
.display()		
.out()		
Correct Continue!		

Hishaam2	2/3	2:24
Does Java make me cry sometimes?		
True		
False		
Continue!		

Hishaam	2/5	4:15
Congrats Hishaam on finishing the quiz You have scored: 2/5		
Click here to see the leaderboard		

Hishaam2	2/3	2:17
Congrats Hishaam2 on finishing the quiz You have scored: 2/3		
Click here to see the leaderboard		

Leaderboard
[1] fjaiodw : 8
[2] hishaam : 5
[3] Hishaam : 3
[4] Hishaam : 3
[5] Hishaam : 3
[6] Hishaam : 3
[7] Hishaam : 2
[8] Enter your name: : 2
[9] Enter your name: : 2
[10] 1 : 2
[11] Enter your name: : 2
[12] Enter your name: : 2
[13] trs : 1
[14] Enter your name: : 0
[15] Enter your name: : 0
[16] 5 : 0

Leaderboard
[1] fjaiodw : 8
[2] hishaam : 5
[3] Hishaam : 3
[4] Hishaam : 3
[5] Hishaam : 3
[6] Hishaam : 3
[7] Hishaam2 : 2
[8] Hishaam : 2
[9] Enter your name: : 2
[10] Enter your name: : 2
[11] 1 : 2
[12] Enter your name: : 2
[13] Enter your name: : 2
[14] trs : 1
[15] Enter your name: : 0
[16] Enter your name: : 0
[17] 5 : 0