A PROJECT REPORT ON

BUBT QUIZZES

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

BANGLADESH UNIVERSITY OF BUSINESS & TECHNOLOGY

(BUBT)

MIRPUR-2. DHAKA

MARCH, 2022

BUBT QUIZZES

A project
Submitted to the Department of Computer Science and Engineering
Bangladesh University of Business and Technology (BUBT), Dhaka
In partial fulfillment of requirements
For Advanced Programming Lab, CSE-332.
Of

BACHELOR OF SCIENCE IN
COMPUTER SCIENCE AND ENGINEERING

Group No – 1

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Intake – 43rd (sec 1)

SUPERVISED BY-
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ABSTRACT

The project: "**BUBT QUIZZES**" is quiz Application that is a collection of number of departmental quizzes of Bangladesh University of Business and Technology. A student can access specific quiz which is set by the instructor. There will be limited number of questions and for each correct answer student will get a credit score. In the instructor part, they can login and create a new question, update the existing question, see all question, delete any question, see all student marks. To convert of BUBT manual quiz, this application make the quiz system of our university easier.

DECLARATION

We hereby declare that the project entitled **"BUBT QUIZZES"** submitted in partial fulfillment by us for the degree B.Sc. Engineering in Computer Science and Engineering in the faculty of Computer Science and Engineering of **Bangladesh University of Business and Technology (BUBT)** under the guidance of our supervision of **Md. Anwar Hussen Wadud**, Assistant Professor, department of Computer Science and Engineering is our own work and it contains no material which has been accepted for the award to the candidates of any other disciplines expect few references which is taken from various books and authors to enrich our knowledge about the topic of our project.

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Md. Firose Mahmud   Md. Arafat Hossan   Md. Habibur Rahman Shohel

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CERTIFICATE

TO WHOM IT MAY CONCERN

That is to certify that Md. Firose Mahmud, Fariha Islam, Md. Habibur Rahman Shohel and Md. Arafat Hossan students of B.Sc. in CSE has completed their project work titled **"BUBT QUIZZES"** satisfactorily in partial fulfillment for the requirements of B.Sc. in Computer Science and Engineering from Bangladesh University of Business and Technology in the year March, 2022.

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DEDICATION

Dedicated to our parents for all their love and inspiration.

ACKNOWLEDGEMENT

"Task successful" makes everyone happy. But the happiness will be gold without glitter if we didn't state the persons who have supported us to make it a success. Success will be crowned to people who made it a reality but the people whose constant guidance and encouragement made it possible will be crowned first on the eve of success.

This acknowledgment transcends the reality of formality when we would like to express deep gratitude and respect to all those people behind the screen who guided, inspired and helped me for the completion of our project work. We consider ourselves lucky enough to get such a good project. This project would add as an asset to our academic profile.

We express our gratitude to the help of our supervisor **Md. Anwar Hussen Wadud**, for his constant supervision, guidance and co-operation throughout the project and for giving constant motivation and valuable help through the project work. We also would like to thanks to our honorable chairman **Md. Saifur Rahman**, for his support and giving us support and giving us permission to use the computer lab whenever we needed.

We extend our sincere gratitude to our parents who have encouraged us with their blessings to do this project successfully. Finally we would like to thank to all our friends, all the teaching and non-teaching staff members of the CSE Department, for all the timely help, ideas and encouragement which helped throughout in the completion of project.

APPROVAL

This project **"BUBT QUIZZES"** submitted by Md. Firose Mahmud, Fariha Islam, Md. Habibur Rahman Shohel and Md. Arafat Hossan ID No. 19201103003, 19201103008, 19201103027, 19201103039 students of B.Sc. in Computer Science and Engineering from Bangladesh University of Business and Technology in the year November, 2020 under the supervision of Md. Anwar Hussen Wadud, Assistant Professor, Department of Computer Science and Engineering has been accepted as satisfactory for the partial fulfillment for the requirements of B.Sc. in Computer Science and Engineering and approved as to its style and contents.

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Table of Contents

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Chapter – 1
Introduction

1.1 <u>Relevance:</u>

In our daily lives, safety is a major concern. Every person requires a sense of safety. Our security pattern includes an access control system for doors. Traditional locks are no longer as secure as they once were; anyone can gain access by breaking these locks. We need to create a system that will assist 24 hours a day, seven days a week. Only authorized individuals have access to restricted areas thanks to a password-based door lock system. Arduino is in charge of the entire system. A keypad can be used to enter the password. The door opens if the password matches the password entered in Arduino. This password-based bolt structure will provide clients with a more secure and low-effort locking-opening mechanism. Mechanical door locks will be replaced by electronic door locks in the future, thanks to the security door lock automation system.

1.2 Project Objectives:

The main objective of "Quiz Contest" is to facilitate a user friendly environment for all users and reduces the manual effort.

In past days quiz is conducted manually but in further resolution of the technology we are able to generate the score and pose the queries automatically. The functional requirements include to create users that are going to participate in the quiz,

automatic score and report generation and administrative tasks like add, delete, update for admin privilege users. In this application, all the permissions lies with the administrator i.e., specifying the details of the quiz with checking result will show to interviewee or not, addition of question and answers, marks for each question, Set timer for each quiz and generate report with score for each quiz.

Chapter – 2
Basic Concepts &Tools

2.1 Introduction to Java:

Java is a programming language created by James Gosling from Sun Microsystems (Sun) in 1991. The irst publicly available version of Java (Java 1.0) was released in 1995. Sun Microsystems was acquired by the Oracle Corporation in 2010. Over time new enhanced versions of Java have been released. The current version of Java is Java 1.7 which is also known as *Java 7*. From the Java programming language the *Java platform* evolved. The Java platform allows software developers to write program code in other languages than the Java programming language and still runs on the Java virtual machine. The *Java platform* is usually associated with the *Java virtual machine* and the *Java core libraries*.

2.2 Java Virtual Machine:

The Java virtual machine (JVM) is a software implementation of a computer that executes programs like a real machine. The Java virtual machine is written specially for a specific operating system, e.g. for Linux a special implementation is required as well as for Windows.

2.3 Java Runtime Environment vs. Java Development Kit:

A Java distribution comes typically in two laours, the *Java Runtime Environment* (JRE) and the *Java Development Kit* (JDK).The Java runtime environment (JRE) consists of the JVM and the Java class libraries and contains the necessary functionality to start Java programs. The JDK contains in addition the development tools necessary to create Java programs. The JDK consists therefore of a Java compiler, the Java virtual machine, and the Java class libraries.

2.4 Characteristics of Java:

The target of Java is to write a program once and then run this program on multiple operating systems.

Java has the following properties:

Platform independent: Java programs use the Java virtual machine as abstraction and do not access the operating system directly. This makes Java programs highly portable. A Java program (which is standard complaint and follows certain rules) can run unmodified on all supported platforms, e.g. Windows or Linux.

Object-orientated programming language:

Except the primitive data types, all elements in Java are objects.

Interpreted and compiled language: Java source code is transferred into the byte code format which does not depend on the target platform. These byte code instructions will be interpreted by the Java Virtual machine (JVM). The JVM contains a so called Hotspot-Compiler which translates performance critical byte code instructions into native code instructions.

Automatic memory management: Java manages the memory allocation and de-allocation for creating new objects. The program does not have direct access to the memory. The so-called garbage collector deletes automatically objects to which no active pointer exists.

Chapter – 3
Methodology and Modeling

3.1 Introduction:

This is Java Projects on Online Quiz System, which provided a lot of facility to their user.

The objective and scope of our Project is to make a user-friendly quiz taking tool for examination purposes.

It will simplify the task and reduce the paper work. During implementation every user will be able to easy understand what step follows the current step.

At the moment we are in the very early stages, so it is difficult to put a specific time on the completion, and determine the complexity we may face, but we will keep putting are efforts and consult for guidance. The system is very user friendly and it is anticipated that functions of the system will be easily accessed by administrators, and applicants that is faculty and students.

3.2 Software Requirements:

- NetBeans
- XAMPP

3.3 Hardware Requirements:

- 1.8 GHz or faster processor. Quad-core or better recommended
- 2 GB of RAM; 8 GB of RAM recommended (2.5 GB minimum if running on a virtual machine)

- Hard disk space: Minimum of 800MB up to 210 GB of available space, depending on
- Features installed; typical installations require 20-50 GB of free space.
- Hard disk speed: to improve performance, install Windows and Visual Studio on a solid-state drive (SSD).
- Video card that supports a minimum display resolution of 720p (1280 by 720); Visual
- Studio will work best at a resolution of WXGA (1366 by 768) or higher.
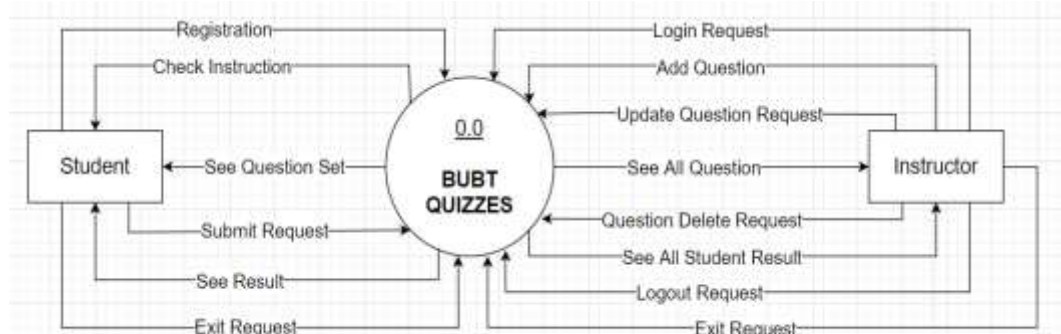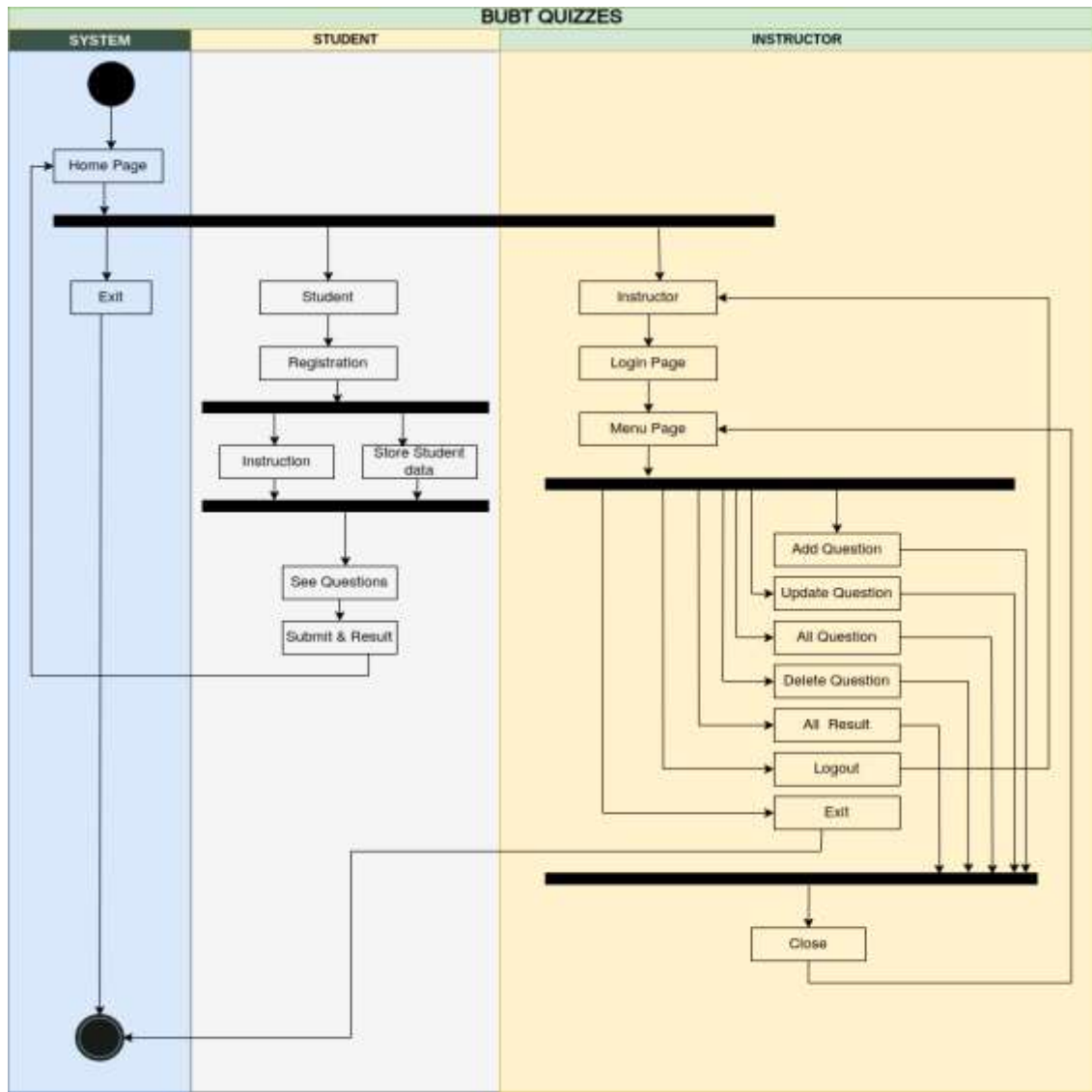
3.4 Languages:

- Swing (Java)
- MySQL

3.5 Diagram:

3.5.1 Context Flow Diagram (CFD):

Context data flow diagram is the summarized overview of the whole system.

Fig-3.5.1: CFD of BUBT Quizzes

3.5.2 Activity Diagram:

3.5.3 Database:
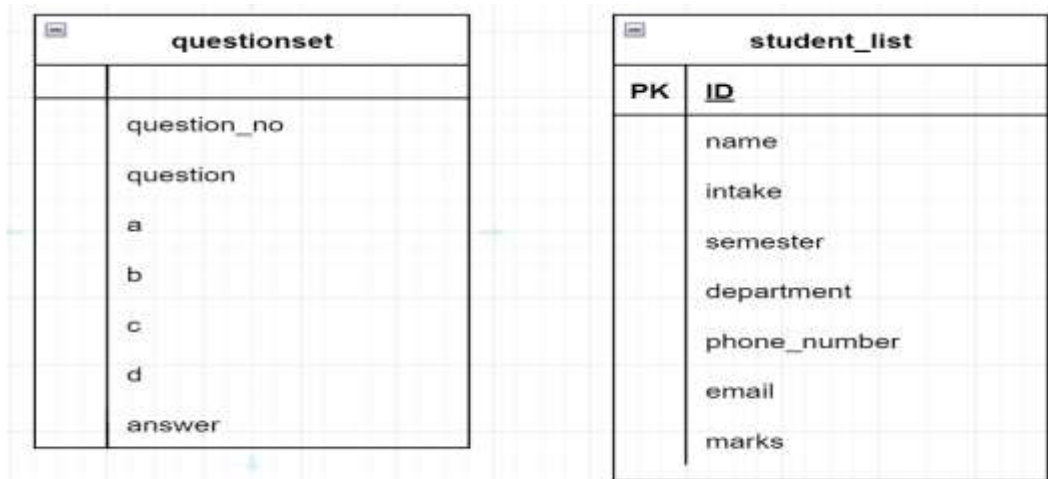
Chapter – 4
User Interface and Discussion

4.1 Simulation:

Main Page:

INSTRUCTOR:

Menu

Add New Question | Update Question | All Question | Delete Question | All Students Result | Logout | Exit

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Menu

Add New Question | Update Question | All Question | Delete Question | All Students Result | Logout | Exit

Add New Question:

Question No: 6

Question:

A.

B.

C.

D.

Correct Answer:

CLEAR   SAVE

Menu

Add New Question | Update Question | All Question | Delete Question | All Students Result | Logout | Exit

Update Question:

Question No: Search

Question:

A.

B.

C.

D.

Correct Answer:

CLEAR   UPDATE

Menu

Add New Question | Update Question | All Question | Delete Question | All Students Result | Logout | Exit

All Question:

question_no	question	a	b	c	d	answer
1	Which of the following is	Bytecode is executed by	The applet makes the Ja	Use of exception handling	Dynamic binding takes	Bytecode is executed by
2	Which of the following is	Concurric	Architecture Neutral	Use of pointers	Object-oriented	Use of pointers
3	The ugliest Latin within	Unicode escape seques	Octal escape	Hexadecimal	Unicode	Unicode escape seques
4	is used to find an	JVM	JRE	JDK	JDK	JDK
5	What does the expressio	0	Not a Number	Infinity	Run time exception	Infinity

Menu

Add New Question | Update Question | All Question | Delete Question | All Students Result | Logout | Exit

Delete Question:

Question No: 5   Search

Question: What does the expression float a = 35 / 0 return?

A. 0

B. Not a Number

C. Infinity

D. Run time exception

Correct Answer:

Infinity

CLEAR   DELETE

Menu

Add New Question | Update Question | All Question | Delete Question | All Students Result | Logout | Exit

All Student Result:

id	name	marks
12311111	33333	3
11021103006	Frazza Mahmud	4
11021103022	Sahana Rahman	4
11021103027	Habibur Rahman	4
11021103028	Md Rhimel	2
11021103038	Shakib Hossain	4

Menu

Add New Quiestion · Update Question · All Question · Delete Question · All Students Result · Logout · Exit

Menu

Add New Quiestion · Update Question · All Question · Delete Question · All Students Result · Logout · Exit

STUDENT:

Fill up all fields: ← Back   ✕ Exit

ID :

Semester :

Name :

Department :

Intake :

Phone Number :

Section :

Email :

SAVE & NEXT

Follow the Instruction:

i. The student may not use his or her textbook, course notes, or receive help from a proctor or any other outside source.

ii. Students must complete the 5 multiple-choice question quiz within the 5 minute time frame allotted for the quiz.

iii. Students must not stop the session and then return to it. This is especially important in the online environment where the system will "Time-Out" and not allow the student or you to reenter the quiz.

Number of Question   : 5
Quiz Duration   : 5 min

START QUIZ

BUBT QUIZZES | BUBT BANGLADESH UNIVERSITY OF BUSINESS AND TECHNOLOGY | Developed By- F-S-A

Welcome To Quiz

Total Time : 05 Min
Taken Time : 0 30

Which of the following is not a Java features?

ID   : 85554
Name : Mr M
Total Question : 05
Queston No   : 2
Your Marks   : 1

- Dynamic
- Architecture Neutral
- Use of pointers
- Object-oriented

NEXT   SUBMIT

BUBT QUIZZES | BUBT BANGLADESH UNIVERSITY OF BUSINESS AND TECHNOLOGY | Developed By- F-S-A

Welcome To Quiz

Total Time : 05 Min
Taken Time : 1 11

What does the expression float a = 35 / 0 return?

ID   : 85554
Name : Mr M
Total Question : 05
Queston No   : 5
Your Marks   : 3

Do you want to submit right now?
Yes   No

- Infinity
- Run time exception

SUBMIT

BUBT QUIZZES | BUBT BANGLADESH UNIVERSITY OF BUSINESS AND TECHNOLOGY | Developed By- F-S-A

Welcome To Quiz

Total Time : 05 Min
Taken Time : 1 11

What does the expression float a = 35 / 0 return?

ID   : 85554
Name : Mr M
Total Question : 05
Queston No   : 5
Your Marks   : 3

Run time exception

SUBMIT

BUBT QUIZZES

BUBT BANGLADESH UNIVERSITY OF BUSINESS AND TECHNOLOGY

Developed By- F-S-A

Marks Obtained : 4
Thank You

BUBT QUIZZES

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Developed By- F-S-A

Marks Obtained : 4

BUBT QUIZZES

BUBT BANGLADESH UNIVERSITY OF BUSINESS AND TECHNOLOGY

Developed By- F-S-A

Main Page Exit:

4.2 Source Code:

https://drive.google.com/file/d/1jKh8lEWI66qMpTnZIetXzr_qHdMKT0Iw/view?usp=sharing

4.3 Limitations:

- Here every student can participate for the quiz. No ID checking for only BUBT's student.
- No skip option for any question.
- Number of different quiz list are available.
- Student can't print the question set.

4.4 Future Plan:

- We want to make this software more user friendly.
- We will an option for reporting bugs for fixing bugs (if any) or suggestions for better support.
- Add skip option for any question.
- We will add the print option of question set.

Chapter – 5
Conclusions

Currently there are many medication reminder systems which are operable manually. Due to increased manual work, the available system becomes more time consuming. So in the given work, an attempt has been made to implement fully automatic medication reminder system. It eases the user's task of recalling when to take the medicine by reminding them of the particular medicine at the correct time thereby reducing the much prevalent manual work.

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