

**Computer Method 3 Project**

**Final Phase**

**Topic: Quiz App**

**Group Number: 49**

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# ABSTRACT

This report deals with the development of a Quiz app, the objective of this project is to develop a quiz app.The Teacher /user will set/upload question in the app, and the app will generate a quiz question that the Student can access to attempt it. In this report, a high-level proposed solution is presented that describes the system's entire functioning and how the different part of the system are connected to form a complete app. UML diagrams are also provided to describe how the system part connects and how the system's coding will be generated. A GUI is also provided to show the user interface where the user can interact with the app. And lastly, a testing method is provided showing how the system will be tested to ensure that the app performs as expected.

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# INTRODUCTION

Students and learners mainly require quiz application to prepare themselves for different examinations directly through smartphones and tablets in hands. The Teacher also uses it in a proper form to assess the Student. One of the major goals of our project is to facilitate students in learning, gaining and improving their knowledge skills and to provide Teachers with a tool that they can use in assessing the students.

# Proposed High-Level Solution

## Functionality diagram:

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SMIRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA1OjE0IDE3OjIyOjQwAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 1: Flowchart of the functionality of the system

### Home Page

On this page, the user will choose between the two types of the quiz: formal and informal quizzes. The system will then direct the user to the option that the user selected.

### Informal Quiz Page

On this page, the user will create a username, ID, and title of the quiz. The use will generate/ upload a quiz using the options provided by the system, and the data will be stored in the Database. After uploading a document, the user will interact with the Database in modifying the quiz uploaded. The system will then provide the attempt option to the user to enable the user to attempt the quiz.

### Formal Quiz Page

On this page, the user will choose whether to log in as a Teacher or Student. If the user is not registered, an option to register will be provided, and after the registration, the user will be directed back to the Formal quiz page to log in. The system will store all the data inputted by the user to the Database, and it will confirm whether the Teacher/Student are using the correct login credentials. The system will then direct the Teacher to the Teachers page and the Student to the Student page.

### Teacher Page

On this page, the Teacher will be able to create an ID and title of the quiz, then He/she will be able to generate/ upload a quiz using the options provided by the system, and the data will be stored in the Database. After uploading a document, the Teacher will interact with the Database in modifying the quiz uploaded. The Teacher will then be able to view the students' marks after the completion of the quiz.

### Student Page

On this page, the Student will input the ID and title of the quiz. Then the system will check whether the is any matching quiz in the Database. If quiz ID AND title matches will the ones inputted by the Student, the Student will be able to use the attempt button to attempt the quiz else nothing is going to happen when the Student presses the attempt button.

### Database

In the Database, all the user details will be stored. The Database will be implemented using Microsoft MySQL which will have tables which contain different user details like ID, passwords, and Quiz question.

## Flow Chart diagram

A flow chart is a diagram type that shows an algorithm, function, or procedure by depicting the steps of different types of boxes and linking them with arrows to display the order in which they occur. A solution to a problem is shown in this diagrammatic representation. Flowcharts are used in various fields to help with a process like analysis, design, documentation, and management. The diagram below shows the quiz app's flowchart diagram, which can later be converted to a program.

**Diagram

Description automatically generated**

Figure 2: Flow chart diagram

## Class Diagram

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TPyRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA1OjE0IDAwOjE0OjQwAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMTowNToxMSAxNzowMjoxOAAyMDIxOjA1OjExIDE3OjAyOjE4AAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAAIkUAAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgBAADRAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A9/ooAKKACigAooAKKACigAooAKKACigAooAKKACigAooAKKACigAooAKKACigAooAKKACigAooAKKACigAooAKKACigAooAKKAKUtxOs7qpjCqcDKknoPemfarn+9F/3wf8AGuV1Z3N1STVzCfxvZQ+WJpjE8gyqNbNkjJGevTjP0rRsddXUXmS2lRmhO18xMMH86PaTD2cS59puf70X/fB/xqzbSySK3mFSQf4Rj+tVTqScrMU6aSuieiugxCigAooAKKACigAooAKKACigAooAKKACigDF1CaaKeTybdpmz0Dhe3v+H51Vt7y8kkVZdNkiUx7t3mqwDcfKffr+VcDjq9Tri9EIb66S4ijksXVJCBvEmduT3GP/AK3TmtDHuaTj5lJhj3NW7Po/1FXSVpoir8JaqK5YrazMpwQhII7cV2S2ZzLcz8H/AJ6S/wDf1v8AGjB/56S/9/W/xriu+51ckexj3WparDcpFb6TPcIy7i4vCoHTg575J/L642MH/npL/wB/W/xobfcFFdgwf+esv/f1v8a0LZi1rCzHJKAk/hW1Fu7MqqSWhLRXQYhRQAUUAFFABRQAUUAFFAHN69GjMzOq/fCDMrL1AyOCM9O5rIa2ijvIGgjsWijUYZ7ljgYwTjd82Oeorj6nUtkWbSx0eW2WaRIlELso/wBJLKvJbruxyDn6EdOg07D7HFEYbSZHUMzYEm4jJyf51LuUrFurdn0f6irpfGiavwlmobv/AI85/wDrm38q6ZfCzmW5y17fTW908aXVkgO0qJY2OBkjHHf5WHXtTP7RuHmZI7rTjlD5aiJyxbHcA9PbrXFyR7HXzPuaM2o2NvMIpZVWQ9ip9AfT3H51ZiaKaNZI8MrdDilyLsO4/av90flV+0/484P+ua/yragkpOxlW2Rn6l4j0/SXKXZmVgwUbYi24kZAGOtK3iGxWQx/vzJ5Bn2iFuVAY49M/KeK6jnGSeJdPiKhhcZJxgRE45xzitK1uEu7dZkVlVicBhg8HFAE1FABRQAUUAFFABRQBhaj8t3KxgllGOqKh7AY555yfbGaxPPghRmj0W64CgBbQAlT/wAB7c8f41wNO71OtNWWhJHPFHA8Q0q5RBJny0tRg84DY24zxz6Y6kYJnd47KRZYrG6MjIcmGEY5JJHTrx6enqKXK+5V12NKISSQo7PIhZQSpAyPbpVq3s0l3GSSckYHyzMn6KQKuknzrUir8JN/Z0H9+6/8Cpf/AIqorrT4VtJiHuchCRm5kI6em6uuXws5luZN5e28AUXMiHcTtH2dmJxwTgZ4GevvUVvqVjdOI4pYWJyu0wEdwuDn6j8CD0rhtM7LoddahZ2Tf6RJHGcZ/wCPZj6jt/u4/L1FTWN3Dcq8dpIm2HClfIZAOvTOB27UWkF0W8Tf34/++D/jVi20+FrWEl7nJRTxcyDt/vVtQvzO5lW2RL/Z0H9+6/8AAqX/AOKo/s6D+/df+BUv/wAVXUc4f2dB/fuv/AqX/wCKo/s6D+/df+BUv/xVAB/Z0H9+6/8AAqX/AOKo/s6D+/df+BUv/wAVQBDaJ5OsXcKyStGLeFwskrPglpASNxPoPyrRoAKKACigAooAyL21huZ5BMu4A4Az6qAf0qkujWKnKxuMOrj942AVOR36D06VxN6nXFaIdHpFpFcSzxqyvKu1zu5PAGc9c4GOtS2+n21rIZIUIYjaSWJ4znv70rlWLNW7Po/1FXS+NEVfhLNQ3f8Ax5z/APXNv5V0y+FnMtzEnsriQq0WozxEOWPyqQRn7uMYwBkevI54qt/ZN2odotWuEkOQrbQwAJycqeCe2ew4rjuddif7Hehjt1FlXJ2oIUwB2H4cVJ9knFuY1u3DYGHIyQQc569+lFwsMhs7xLhJJdSkkVVIMYiUBvc8duemO2c4rctP+POD/rmv8q1o/EZVdiaiukwCigAooAoRf8h+8/69YP8A0KWr9ABRQAUUAFFAGZOyrcygsByOp9hTPMT+8v51wSauzrj8KDzE/vL+dHmJ/fX86V0VcPMT+8v51csiCrkHIz2rSk/fRnU+EtUjKGUqwBUjBB712HMRfZLb/nhF/wB8Co4LW3MZJgjPzsPuj+8az9lDsVzS7kn2S2/54Rf98Cj7Jbf88Iv++BR7KHYOaXcPslt/zwi/74FSgBVCqAABgAdqqMIx2Qm29xaKoQUUAFFAFCL/AJD95/16wf8AoUtX6ACigAooAKKACigAqhq9zDbWsPnTxxebcwxJvcLvZpF+UZ6k88UAW/Ih/wCeSf8AfIo8iH/nkn/fIoAy7+8ns7hY4tEe5R5AiyRFccjOSOwHPJ46etOknuld1TQy2Ityt5kYVn2k7eucZAGcd+mKAGfar48jw+QM8hpo849sZGfx/GtGyaR7VWltRauScxbg2OT3HHPX8aALFFK6AKKLoAop3AKKACigChF/yH7z/r1g/wDQpav0AFFABRQAUUAFZs0+2ZwZsYbpvxXPiHZLU1pK7GfaB/z3/wDH6xpbzVJC8M1jbTqjF4pTcDBZSCh2HoffPaufnj1l+JvyeResL68niZr2JLV8/Kq3XmZH1wKt/aB/z3/8fpc6/m/EOTyLlk/mRud+7DYznPYVZrtpO8Ecs1aTCo5+IHz6elVP4WKO6Of1BLuaOMWFwLdg+XLQbgy+nT6c1V8nWc5+3w4JBwLU+nIB/wDrH+lef7nb8Dssxk8GuvdGSDULaGEqQIWtS+Ccc7uCcf16U5YNZ8sbtQhLgjkWpAI7/wCf8l+52/ALS7mlAXS3VbhvMl53MsRUH8K3e1b4e13YxrX0Cql3LJHPEqOVDKxPA7Ef41tVbUdDOCTlZkXnzf8APQ/kP8KgvL27t7ZpIUedwVAjXAJyQD27Dn8K5uef835G/JHsZDahcWt3JfxaLdPc3CRxzPEF3ELuwDnHTc2Pr24zs293cy20Ukm6N3QMyHB2kjkdO1DlP+b8gUI9iXz5v+eh/If4VPZyPIsu9t218DjtgH+tXSlJys2RUjFRukWaK6jAKKACse4uo47iRWWUkN/DC5H5gVz4iSSVzaitSP7bF/dn/wC/D/4UfbYv7s//AH4f/CuT2k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QUFBQUFBQU/8AAEQgD6AMwAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A/VOiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBCwHU0ZrlfiRNLD4VfyZpbdpLu0haSGRo32vcxIwDLyMqSMjnmubHhuJh/wAhHWh/3GLv/wCO15GIx7oVfZRhfS9723vp+B20cM60Oe9j0+ivMf8AhGYv+gjrX/g4u/8A47R/wjMX/QR1r/wcXf8A8drn/tOp/wA+fxRv9R/vfgenUV5j/wAIzF/0Eda/8HF3/wDHaP8AhGYv+gjrX/g4u/8A47R/adT/AJ8/ig+o/wB78D02lrzH/hGYv+gjrX/g4u//AI7R/wAIzD/0Eda/8HF3/wDHaP7Tqf8APn8UL6l/e/A9OorzL/hGYf8AoI61/wCDi7/+O0f8I1D/ANBDWv8AwcXf/wAdo/tOp/z6/wDJkH1L+8em0V5l/wAIzD/0Eda/8HF3/wDHaP8AhGYf+gjrX/g4u/8A47R/adT/AJ8/ig+pf3j02ivMv+Eah/6CGs/+Dm7/APjtH/CMxf8AQQ1n/wAHF3/8do/tOp/z6/FB9S/vHptFeY/8IzF/0Eda/wDBxd//AB2j/hGYv+gjrX/g4u//AI7R/adT/n1+KH9R/vfgenUV5j/wjMX/AEEda/8ABxd//HaP+EZi/wCgjrX/AIOLv/47R/adT/nz+KD6j/e/A9OorzH/AIRmL/oI61/4OLv/AOO0f8IzF/0Eda/8HF3/APHaP7Tqf8+vxQfUf734Hpu4etGRXk+o6a2j/Ybm31HVPN/tCzjIm1O4lUq9zGjAq0hUgqxHPrXqw+6K7cLjHiXKLhytedzkrUfY21vcfRRRXpHMFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcn8TP+RVH/X/AGH/AKVw1TX7tXPiZ/yKo/6/7D/0shqmrcdDXzGM/wB7l/hj+bPawf8AC+f+QvNHNGaM/SsTtDmjmjP0o59qAA5rkPi/r1/4V+FPjHWtLn+y6lp+kXVzbT7Ffy5EiZlbDDBwQDggj2NdfzWR4w8L2vjbwprPh++kmis9UtJbKaS3YLIqSIVJUsCAcMcZB+hpxavqJ7HzN8I/jlqN94u01R458TeLbCy8OPq/i6z8T6BDpjaWGiV4JLfFlavIJGEijHmqVBORwTY8O/t5aNrnh/Vb5dJ0u8v00631LTtO0PxFFqEknnzrBFb3ZSMfZJ98ke5AJAoYkM2MH168+AHhq78SeF9cE+oQ3uhaTJoR8uSPZqNg8YRre6Uod65AYFNhB6HBIPH+Jv2YXHwj8QeE9F8TatrMkthFZ6La+Jb/ADaaYsLh4Fj8iJSCpC4nkWaX5V3FwCp6+anI57TRmeKP2jNdsdO8Q2mp+Hn8PaxoHiPQdIuDpOrRXKT/AG6aHcUkmtD+7Al2nMauw3YMZw1XPB/7VT+OviV4y8GaboelwX+gtewJBe66Ir4ywBSrTWbQhlgkz8ssBnAGN4UnAq+Bf2YtU1HSfE7fEXWp7nVNb17TNaZtP1EXLh7ExNDuma1gUh3iG5UgjABwvPzV2sP7OuiN8RrLxfqOu69rs+nNePplhqk8M8Wnm6A87ypvKFyVPIWN5mRM/KoCrtTdKKsxr2jdzxnS/wBtrUPDPw48E3fi2y8ML4l1vR7jXpxe+JE022NrG4CpC0kGXuHLEJBjHyEmXoT7J8P/AI3XnxN8b3+maL4ftxoFjaWN7Nq13qRSUx3VuZowkCwsGYcBsyKMHOT92szT/wBlfSNF0vQ7XSvGfizSbnRrSfTLbUbK4tI7n+z5WV2s2YW2NgZAVkAEynOJeTn0Hwv8OdM8I+KNf12yuL2a61pLVLhbqfzVUQR+WhUkbiSPvFmYk81M3Tt7o4qd9TquaOaM/SjP0rmNw5o5oz9KM/SgA5o5oz9KPyoAyPE3/HnZdP8AkJ2H/pXDXpa9BXmnib/jzsuP+YnYf+lcNelj7vrXdl/8ap6L9Ty8b9kfRRRXvnmBRRRQAUUUUAFFFFACUU3IpTQAtGaOKOKADNGaOKOKADNGaOKOKADNGaOKOKADNGaOKOKADNGaOKOKADNGaOKOKADNGaOKOKADNFHFHFABS0ynUgFooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcd8UllPg9xC6JKb6x2NIm5Q32uHBIyMj8R9RXOC28S441PS//BdJ/wDH66j4nf8AIqj/AK/7D/0rhqotfI4+lz4xvma92Oz85HuYN/ufn/kYX2XxL/0E9L/8F0n/AMfo+y+Jf+gnpf8A4LpP/j9c18Tfi9D8MfEXhCxu9LlvNP1y5lgutQjkwNORFXErrglkLuikgjbuLHIBouvjRo2jyeIRrMVxarperrpFvHY20+oXN7I1vHN+6t4I2lYgSNkKr4VCxIGcYfVZO1py+86/a62Ol+y+Jf8AoJ6X/wCC6T/4/R9l8S/9BPS//BdJ/wDH65TUP2iPAOmaXpl/NrFy0Oo2cuoW8cGl3k0/kROqTSPCkTSRiNmUSb1XZn58c1atPjx4HvtJ1nUodXma10ryjOW0+5V5RNxC1uhj33KyniNoVcOeE3Gj6rL+aX3h7U6L7L4l/wCgnpf/AILZP/j9H2bxL/0FNL/8Fsn/AMfqDwt8QtE8aWdrdaPNdXMVw8sP7ywuIXgkj/1kc6SRq0DjP3ZQregqtr3xU8N+GvE9roF/dXS6lceWP3GnXM8EHmMVj8+eONooN5BC+ay7j0zU/VXe3PL7x85ofZfEn/QT0v8A8Fsn/wAfpPsviT/oKaX/AOC2T/4/XC+Ff2jvDXiCCD7Vbatpt7date6TaWTaPfSyTtbziN5MCAFUwUZmI2pltzfIxEg/aR8E2Vpph1TU3hury2trt1sLC9vLeCKd2SKWSUW4EURZGXzJQgHfGar6o/5pfeL2iO2+y+Jf+gnpf/gtk/8Aj9H2TxJ/0FNL/wDBbJ/8frGvvjP4P03xgnhi41KZdWa4is1C2Fw9v9olAZIPtKx+SJSp3eWX3BfmIxzXbdzU/Vrfbl95XPcw/sviT/oJ6X/4LZP/AI/R9l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Figure 3: Class diagram

## Interface Design

The front-end application contains a GUI or a User Interface that Unable the User to interact with the app to use it. The user interface allows the user to manage and control both the software and hardware. Depending on hardware and software combination, the user interface can be graphical or text-based. The snapshot provided below shows the GUI of the Formal quiz page.

Graphical user interface, application

Description automatically generated

Figure 4: GUI of the formal page

## Database

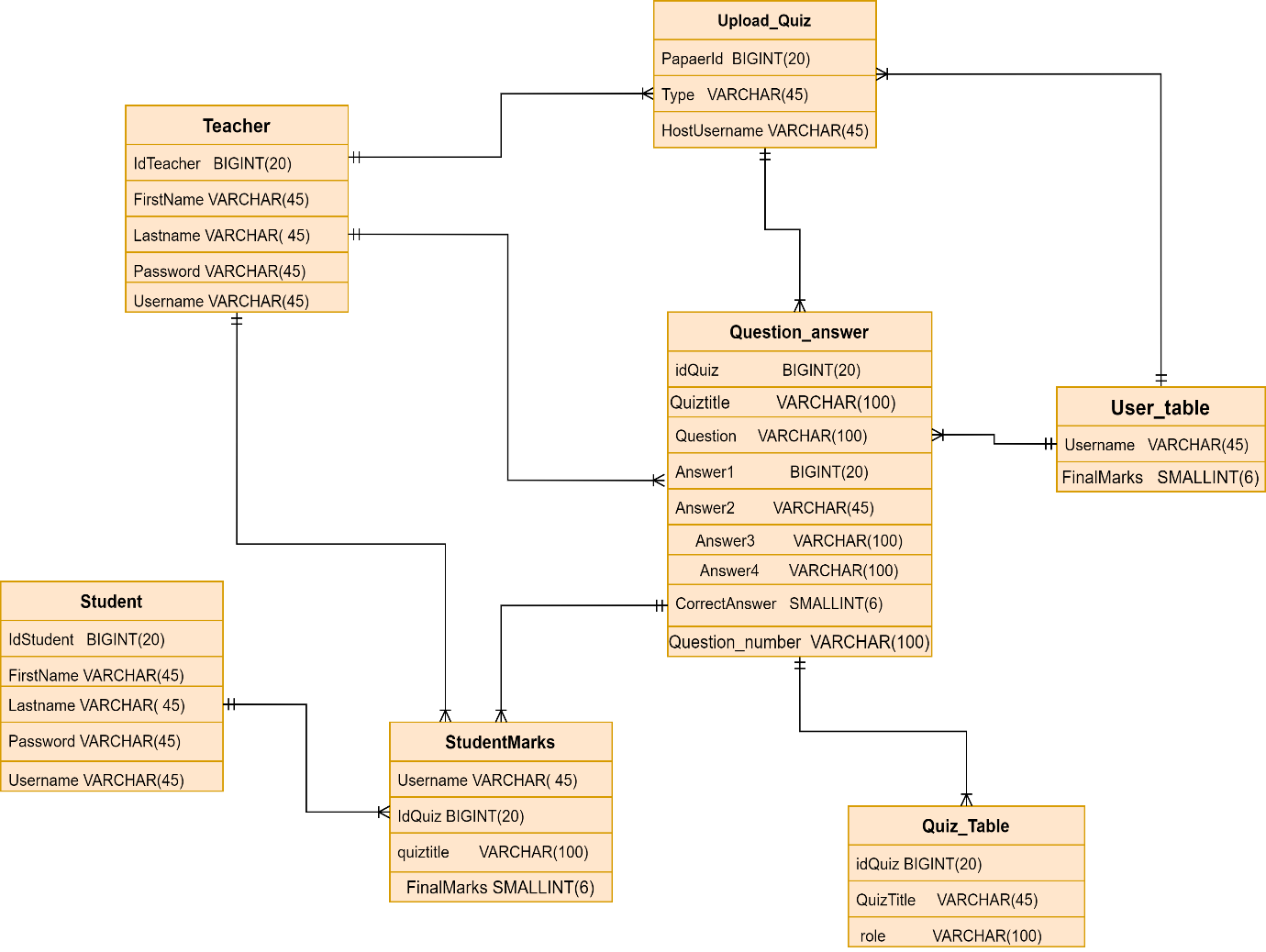


Figure 5: ER diagram of the Database

# Project Specification

### Functional Requirement

* Allow the Teacher/user to generate a quiz
* Allow the Teacher/user to upload a test or quiz paper and edit the question.
* Allow students/ User to attempt the quiz.
* Allow the Teacher to Access the number of students who attempted the test or quiz.
* Provide quick feedback to the student/User after completion of the quiz
* Allow the Teacher to access the marks of the Student who attempted the quiz

### Non-Functional Requirement

* User friendly: anyone can be able to access the app, it will simple and easy to use.
* Safety requirement: Login in information and user activity are securely stored.
* Security requirement: Any modification for the Database shall be synchronized and done by the Teacher in the formal quiz part

# Task Breakdown

## Tasklist

The group collaborated to ensure that the tasks were completed on time and that the requirements were achieved in accordance with the rubric and project. The list of tasks that were executed during the Project design are given below:

* Planning the design of the Quiz app.
* Planning on how the project sub-components will interact with each other.
* Finalizing the Proposed Solution High-Level Solution.
* Designing the GUIs and linking them with reference to the proposed-High level solution.
* Designing the Database and linking the Database with the GUIs.
* Testing the final project.

These tasks provided above are represented in a Gantt chart below, which elaborate the approximation of the time it took the group to execute each task.

Chart, waterfall chart

Description automatically generated

Figure 6: Gantt chart

## Skills

* Leadership entails ensuring that the task is completed on schedule and that the criteria are satisfied in accordance with the rubric and project plan.
* Thinking Critically and Broadly Coming up with new and unique concepts while keeping them reasonable.
* ELO8: Skills to work as an individual and in a team.
* ELO5: Ability to use appropriate techniques, resources, tools and engineering methods to solve problems.

## Project Tools

* Visual studio code for coding in C++.
* MySQL for creating the Database.
* Visual studio code for creating GUI.
* Draw.io for drawing UML diagram.
* MySQL for designing the Database.
* Xampp.

# Performance Criteria and testing

## Performance criteria

Performance testing is a software testing method that evaluates a software application's speed, response time, consistency, reliability, scalability, and resource use while it is under load. This project's performance phase aims to remove performance bottlenecks. A bottleneck is when is a code error or hardware problem causes a decrease in throughput under a particular load. The main method for fixing the bottleneck problem is by finding the section of code that causing the slowdown and try to fix it. The following parameters will be monitored to test the system's performance: Error rate and Response time[1].

## Testing

### Error Rate

This can measure by throwing an exception in the code then the number of the exception the program will throw when running is the used to calculation the Error rate[2].

### Response Time

This will be measured using the tool JMeter under the condition of how it takes the Different parts of the system to respond to each other.

### Black box testing

Blackbox testing, which is also knowns as behavioural testing, is a software testing method in which the internal structure of the software is not known to the tester. This means the tester will only be able to see the User Interface only not the programs.

Test case of Black Box testing:

* Test case Name: Registration
* Input: Enter required details for registration
* Outcomes: Registered Successfully
* Result: Pass

# Testing Result

Test case Name: Registration as a Teacher

The input and outcome are shown in the figure below :

Graphical user interface, application

Description automatically generated

Figure 7: Input and outcome result of Registration

Result : Pass

Test case Name: Login as Teacher

# Graphical user interface Description automatically generated

Figure 8: Input and outcome result of Login

Result : Pass

# Conclusion

In conclusion, this report provides a blueprint of the quiz app project. The solution is presented in the high-level solution, which describes how the Entire system is connected and how it is going to function as a complete app. A methodology is then described on how the system will be tested, which include its performance and functionality. The testing result of the system is provided which demonstrate that the system for registration and login page worked successfully. The system parts functioned as it was expected except the Upload page which the group was unable to excess the database in order to store the text in the text file.

# Reference

[1] Vukovic, V., Durkovic, J. and Trninic, J., 2014. Defining Performance Criteria and Planning Performance Tests for the Exam Registration Software. International Scientific Journal of Management Information Systems, 9(2), pp.15-19.

[2] M.Watson, "8 key application performance metrics & how to measure them," July, 2017. [online]. Available: <https://stackify.com/application-performance-metrics/> [Accessed May. 14, 2021].