Software Quality Review

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1. Name

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2. Student Number

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3. Group

10

4. Rate your software for Functionality

○ Very Good

○ Good

○ OK

○ Bad

○ Very Bad

5. Justify Your Answer

The implementation of our application meets all of the predetermined "Must Have"
requirements, as well as most of the "Could Have" and "Should Have" requirements. This means
that our implementation contains all of the required functionality that was gathered through a
variety of means during the planning stages of the project, as well as containing some extra
features that as a group, we thought would be useful to be included in the application, such as

6. How can it be improved?

The implementation could be made to be accessible from a website, which is one of the "Could
Have" requirements that was not implemented due to timescale and technical issues. In addition
to this, the implementation could be adapted to be multiplatform, in order to accomodate for a
larger number of devices. Additionally accessibility options could be added to the application,
such as language options and colourblindness settings.

7. Rate your software for Reliability

○ Very Good

○ Good

○ OK

○ Bad

○ Very Bad

8. Justify Your Answer

> The system is highly reliable as all of the reliabiloty requirements that have been identified
> during the planning stages of the implementation have been met. The program is free of major
> bugs, and works efficiently so there is not any major freezing or slowdowns within the
> application. All data is stored reliably and securely within a cloud based database, and no data
> within the database can be chanegd without explicit user input. There is a high degree of error
> checking within the implementation, and all user inputs are validated to ensure they do not

9. How can it be improved?

> The reliability of the application could be improved through the implementation of further
> checks to ensure that multiple clients accessing the database simultaneously does not have any
> major impact on performance and scalability. External stress testing applications could be
> utilised to test the scalability of the application to see how it would perform under load, and

10. Rate your software for Usability

○ Very Good

◉ Good

○ OK

○ Bad

○ Very Bad

11. Justify Your Answer

> The usability of the application is high as a clean, user friendly graphical user interface has been
> implemented. The GUI has been designed to be simple and informative, so any users are able to
> learn how to use the application within a short amount of time, and navigate it easily. This is
> because the application will be in use within a kitchen setting, which can be extremely fast
> paced. The application should not get in the way of the users being able to provide efficient

12. How can it be improved?

> The user interface could be adapted to become more attractive to the users, as currently it is extremely simple with white, grey, and black as the primary colours in use. In addition to this, there is no branding on the application, therefore the GUI could be deemed as boring and unattractive. More colours could be used within the application, and the design could be changed to offer more interesting elements than simple arrays of equally-sized buttons.

13. Rate your software for Efficiency

- ◯ Very Good
- ◯ Good
- ⦿ OK
- ◯ Bad
- ◯ Very Bad

14. Justify Your Answer

> The application is fairly efficient as there is never a high waiting time for a response from the database. It has been programmed to not use more memory than it should require, and users are able to operate the application simultaneously without any performance compromises. The database is structured to be efficient, so only the required areas of the database are accessed

15. How can it be improved?

> The efficiency of the application could be improved through the use of locally caching data that is queried from the database, in order to avoid repeated queries every time a user wishes to perform an action that requires a database query. This way the program could first check if the data the user needs is already present in the local cache, and whether it is up to date. This would ensure that the database can be as efficient as possible for low response times.

16. Rate your software for Maintainability

○ Very Good

◉ Good

○ OK

○ Bad

○ Very Bad

17. Justify Your Answer

> The software has been programmed in accordance to Object Oriented Programming standards, and is modular. All areas of the code are split up into independant functions within their own classes, in order to avoid repeating sections of code where possible. This allows for easier bug fixing and adding, removing, or changing features as sections of functionality can be easily isolated. In addition to this, all of the code is commented, properly indented and organised in a way that is understandable to someone trying to understand what the code does. Each function

18. How can it be improved?

> The code could be improved through a higher degree of modularity, as there are still some aspects of the code that could be split up into independant functions. In addition to this, a testing framework could be utilised to perform unit tests on the program in order to improve the testability

19. Rate your software for Portability

○ Very Good

◉ Good

○ OK

○ Bad

○ Very Bad

20. Justify Your Answer

Due to being a mobile application developed for mobile devices, the program is extremely portable. It can very easily be installed onto a users' mobile device, through a simple file download which allows the application to be automatically installed onto the mobile device. The software is adaptable as functionality can be easily changed or added in response to changing

21. How can it be improved?

The portability of the software could be improved through adapting the implementation to be accessible from a website. This way, no installation will be required and the implementation will be accessible from all devices that have an internet connection. Additionally, the application coulod be made to be less reliant on Firebase, as if any other cloud based solutions emerge and provide a better service, many internal changes to the program will need to be made to switch

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