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by Ddd Ddd

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Contents

Introduction 3
Body 3
Conceptual Design Process 3
UML Diagram 1 5
UML Diagram 2 5
Use case Diagram 7
Conclusion 8
References 9

Introduction

Attention Deficit Hyperactivity Disorder (ADHD) is among the most well-known neurodevelopmental problems among the adolescence. It can as well affect many adults. The symptoms of ADHD may include inattention, hyperactivity as well as impulsivity. There are high number of deaths due to ADHD as well as reoccurrences of ADHD. The patients report that severally they forget to take their medications. Therefore this can be managed using a medication reminders software. The software will send them reminders to take medications and one can record when one have taken their dose. They may allow one to capture the name of the medicine, the dose to be taken as well the time of day you are required to take it (Ameta, Mudaliar, & Patel, 2015).

Body

Conceptual Design Process

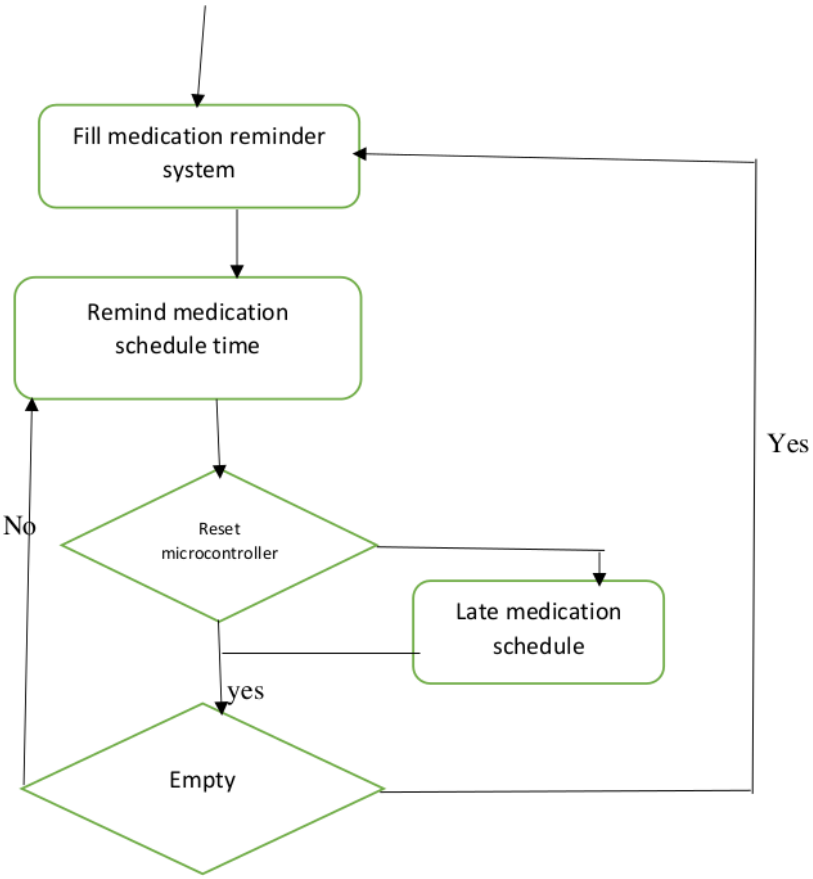
The software design phase of software development majors on changing the client's needs in a way that can be implemented using a programming languages. Our software design process mainly involves three stages of design which include interface design, architectural design and detailed design. The interface design refers to the specification of the connection between a system and its environment. Attention majors on the connection between the target system and the users, devices as well as other systems that it associates with. The architectural design refers to the specification of the main components of a system (Sigh & Varshney, 2019). The detailed design refers to the specification of the internal aspects of the main system elements, their characteristics, associations, processing as well as their algorithms as well as data structures.

The functional requirements of medical reminders system should have the ability to start the system locally on their smartphone; the users should have the ability to exit the system

without causing error; the users should have the ability to view the system locally on their smartphone; they should have the ability to create reminders; gain the ability to retrieve reminders; have the ability to improve update reminders; users need to delete reminders; users should have the ability to upload their images; the ability to search of a specific reminder; and reminders displayed in an effective way.

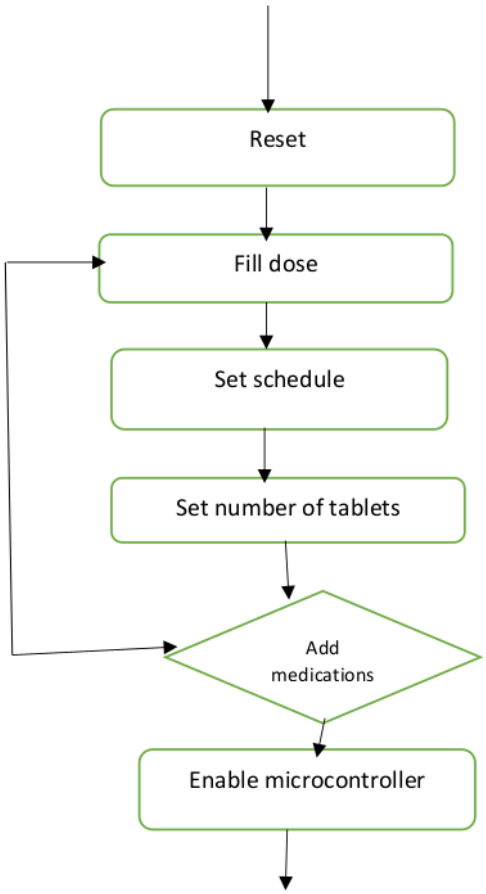
The nonfunctional requirements of the system include security, users can see as well as change reminders; transmission will be encrypted by the application; usability, the system will be easy to use, and the interface should be user friendly; responsiveness, the system responds quickly to user requests; and capacity, the system can accommodate any number of reminders and the maximum number of emergency contacts is limited to one.

UML Diagram 1



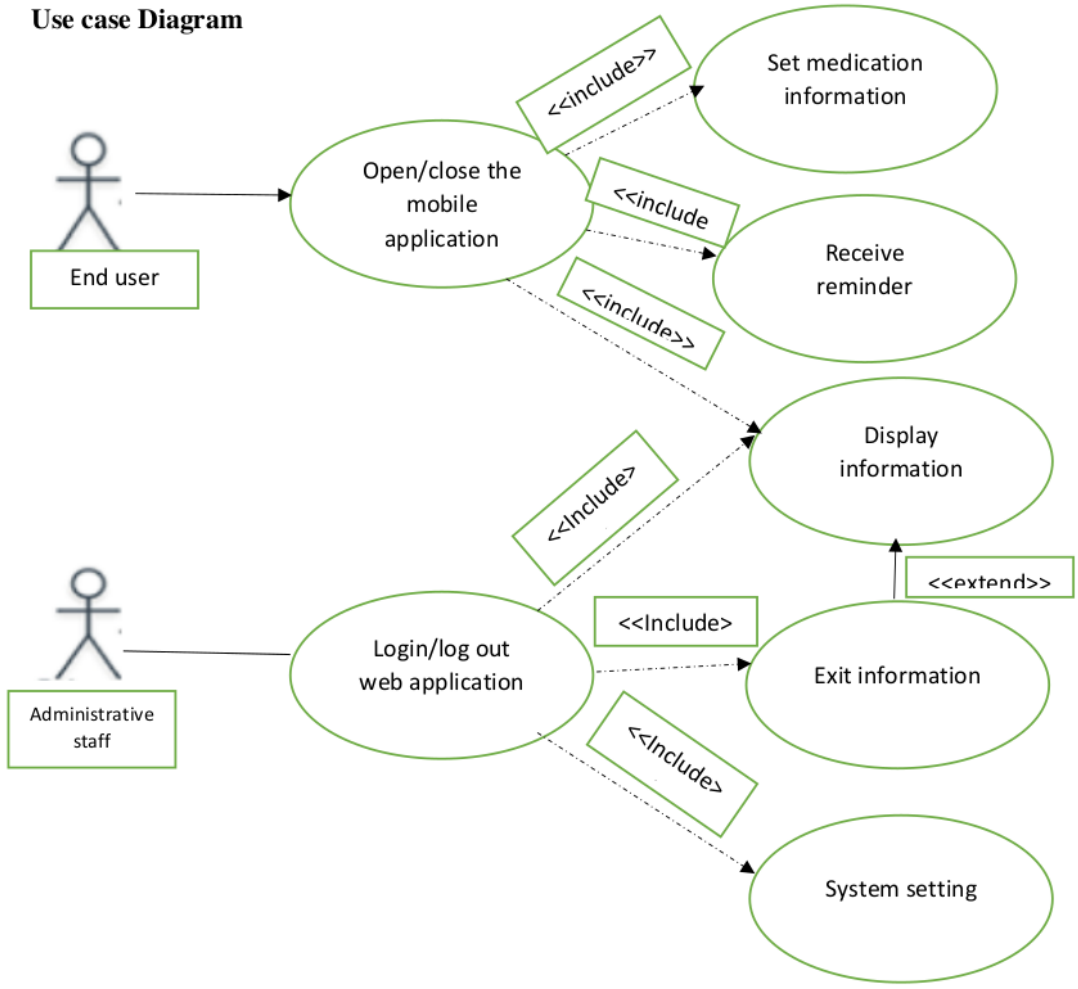
To effectively describe the software design of the medication reminder system, the Unified Modelling Language is used to elaborate the top activity diagram of the system which include fill medication reminder system, remind medication schedule times as well as late medication schedule.

UML Diagram 2



The UML diagram elaborates the activity of fill medications reminder software in which the user initially resets the controller of the needed medicines boxes to be filled. Upon filling the medical tablets in the box. One can then set the schedule time as well as the number of the medical tablets. When the patient finishes, one then enables the control system.

Use case Diagram



From the use case diagram the use takes medication and records medication details using the application and sends it to the central system. The user gets medication reminder using the application the user as well has the capacity to see the information which may involve packaging, medication details and the administration can see the information. The administrator can as well manage the information.

Conclusion

ADHD is a major public health issues around world. Non adherence to the medication dosage is among the high number of deaths among these patients. The medication reminders system can allow the patients to consistently and effectively take their medications. This evaluation provides an effective description of how the medical reminders software will be used by the ADHD patients in order to reduce the mortality rate of these patients as well as the reoccurrence of the condition.

References

Ameta, D., Mudaliar, K., & Patel, P. (2015). Medication reminder and healthcare-an android application. *International Journal of Managing Public Sector Information and Communication Technologies (IJMPICT)*, *6*(2), 39-48.

Singh, N., & Varshney, U. (2019). Medication adherence: A method for designing context-aware reminders. *International journal of medical informatics*, *132*, 103980.

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PAGE 1

PAGE 2

PAGE 3

PAGE 4

PAGE 5

PAGE 6

PAGE 7

PAGE 8

PAGE 9