



# Smart Medicine Box

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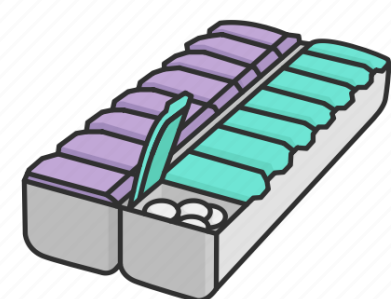


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## Introduction

Due to personal health issues and the medical circumstances of the elderly in our lives, we've found ourselves constantly looking for better solutions for medical devices to the elderly and disabled people, who have so many diseases and have to take different types of medication at different times and quantities, they most likely tend to forget or take an extra dosage of medications that considered. To avoid this situation, we proposed a smart medicine box (SMB) has a built- in alarm system consisting of light and sound that alert the patient to take the medication, whereas the light helps those who have a hearing impairment and the sound is for those with optical problems. Also the box has sensors that check the presence of medicines. Moreover, the mobile application benefits caregivers and patients with maintaining clear track of the medication.

## Objectives



Develop smart medicine box



Track the patient treatment



Application to manage medicine Information



Support the box with light alarm



Support the box with sound alarm



Support the box with fingerprint

## Methodology

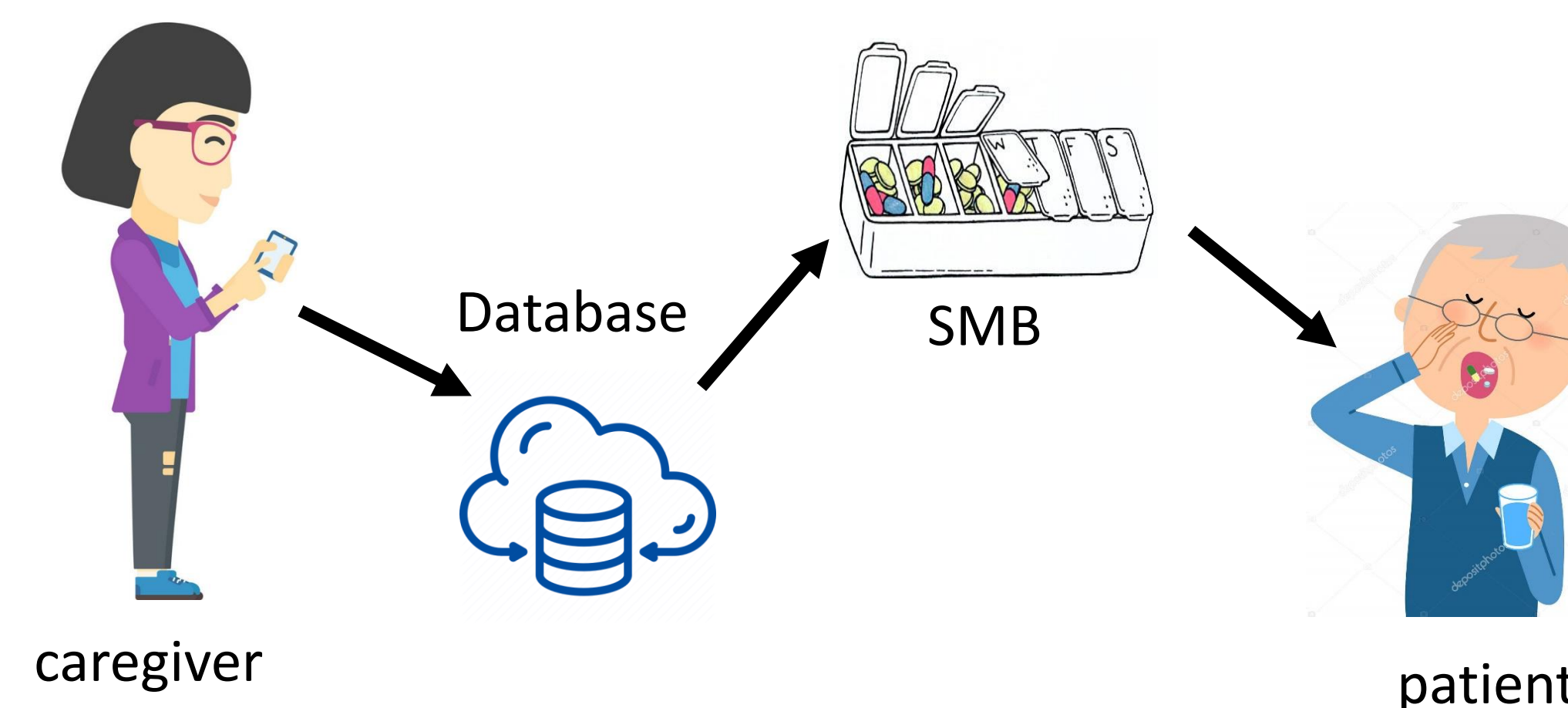


## Results

The deliverables of our project can be summarized in the following :

- **Medication box allows the patient to regulate his medications.**
- **An application that allows patient or caregiver to enter dosage and timing and remind the patient of them.**
- **Database to store medicine information**

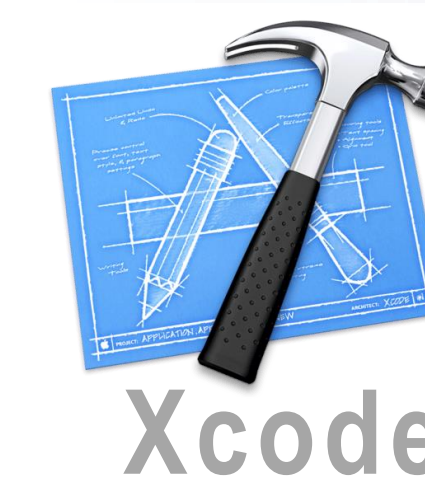
## Method



## Future Work

- Improve the application and increased more features.
- Connect the Arduino to the application.

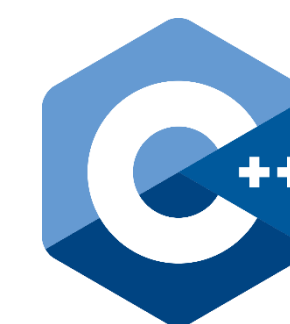
## Materials and Modules



Xcode



Firebase



Swift

## Conclusion

The overall benefit of this project can be showed in terms of facilitating patients of variety of ages and disabled people to help them to avoid forgetting the dosages of medications and don't take extra dose and ensuring their health

## Resources

- [1] <https://hackaday.com/2017/05/05/using-modern-c-techniques-with-arduino/>
- [2] <http://simplyarduino.com/>
- [3] <https://www.androidauthority.com/developing-for-android-vs-ios-697304/>

## Contact Us

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