**Medicine Alert**

**and**

**Reminder System**

**(MARS)**

**Team Number :16**

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**I.INTRODUCTION**

Staying healthy and getting your medications exactly when your body needs them is vital, but sometimes you just forget. Taking your medication should be as easy and automatic as possible, not yet another thing you need to add to your mental checklist.

Phizer.com website states that 4 out of 10 adults who consume more than 1 prescribed medicine, either miss schedule or forget to take medicine completely. We believe that a system which continuously monitors or reminds the user of medicine consumption along with the dosage and directions could significantly improve effect of the medicines and in-turn help user avoid indirect losses incurred due to the mistake of skipping / forgetting medicines.

**Medicine Alert and Reminder System** is the system which provides the complete system for medicine management. It helps users to add their medicines with the recommended time and the app will remind to take medicines on specific time. If a medicine must have a minimum gap of hours, then app will remind of the next dosage of medicine after recommended gap between two dosages.

**II. Project Goal and Objectives**

**GOAL:**

To develop an application that schedules and alerts the user about the medicine to be taken.

**OBJECTIVES:**

We have following objectives for MARS system to be able to function as all-inclusive system to manage medicine schedules.

* Develop an android application which will be able to alert and record medicine consumption date, time and accordingly manage inventory.
* Develop an application which will schedule the medicines to be taken.
* Image-to-text API is used inorder to take picture and detect medicine to convert it into text so that it can be used to retrieve information about the medicine.

**SYSTEM FEATURES:**

Following are the feature in our system:

* **Medicine reminder:** Add your medicines with the recommended time and App will remind you to take medicines on time. Never miss a single dose of medicines as prescribed.
* **Medicine refill reminder:** Reminds you to place refill order with your pharmacy before you run out of your daily prescribed medicines.
* **Medicine schedule manager:** If a medicine must have a minimum gap of hours then app will remind of the next dosage of medicine after recommended gap between two dosages.

**Significance:**

As per FDA.gov website, Centers for Disease Control and Prevention (CDC) estimates that non-adherence to taking medicines on time and at prescribed schedule could result in chronic disease treatment failure and in worst case it could lead to death of a person. MARS would really be helpful to avoid such circumstances which have lot of importance in user’s life.

There are applications which remind people their medicine consumption times, **MARS** has multiple functions like Medicine reminder, Medicine refill reminder, Medicine schedule manager. All of these functionalities make MARS system for medicine management.