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**PRESCRIPTION PARSER**

**OBJECTIVE:**

Our project is a prescription parsing tool that will extract the essential details of a patient from the doctor’s prescription. These details can be used in multiple ways for the utility and ease of the hospitals, patients and pharmacies.

**INTRODUCTION:**

Prescription Parser is an Android Studio Based Application that will give the user options to upload their prescriptions as well as click a picture of their prescriptions to upload to the application. This uploaded prescription is then analyzed and parsed using various Regular Expressions and pattern matching to extract the useful information from the prescription like Patient ID, Name of the patient, E-mail Address, Contact information, name of medicines, diseases and diagnosis of the patient etc.

Now the useful information extracted using pattern matching and regular expressions will be used. One example would be to calculate the bill of the medicines bought by the patient in pharmacies and hospitals.

This can be achieved by searching the medicines in a dataset and calculating their cost depending upon the dosage of the medicines and quantity bought and price for a specific quantity.

There could be many utilities to the extracted information from the prescriptions. Hospitals could upload multiple prescriptions at the same time and generate a database of their patients, their contact information, emergency contact, medicines, diseases/conditions, etc. Moreover they could group these patients depending upon type of medicines, diseases and conditions their patients have.

**FUTURE PLANS:**

In the future, we will be adding support for different kinds of data to be collected from the prescriptions with the help of more regular expressions. More features will be added to the android application as well as the python script. The medicine data will also be linked with the dataset to calculate medicine bills.