

# Voice Prescription

An application to write formatted prescriptions based on dictation from the doctor.

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## Objectives:

- To generate a formatted prescription based on dictation from the doctor using keywords.
- The doctor would be able to edit/delete any entry that has been made.
- The doctor would be able to preview the prescription.
- To provide the facility to pre-sign the prescription digitally.
- Send the prescription to the patient directly to their email.
- The method of storing medical records (EHR).

## Scope:

### In-Scope:

- Login system for Doctors.
- Provide a formatted prescription.
- Mail the prescription to the patient.
- Facility to pre-sign the prescription digitally.
- The patient can request the lost/deleted prescription for a copy.
- Storing the medical history of a patient.

### Out-Scope:

- Mailing the prescription to the nearby pharmacy in case of an emergency.
- Suggestions for various pharmacies depending on the availability of the drugs prescribed.
- Provide suggestions for diagnosis to the doctor based on the input symptoms.
- Provide information to the patient about the availability of the doctor for surgery or consultation.

# W5 Analysis:

## Why?

This application will ease the paperwork for doctors and helps them focus more on the patient's needs and requirements. Because of the global pandemic, medical consultations are being done virtually either via phone or video calls. This application makes it easy for a doctor to take note of symptoms, diagnose, prescribe, and advise quickly, without any hassle, virtually, and can directly send it to the patient by email.

The patient will be receiving an e-prescription therefore it can be easily carried and stored. They can also request a prescription if it gets deleted or lost.

## What?

The following tasks are to be done:

- Database design to store details of patients.
- Website design and development.
- Prescription Designing.
- Voice-to-text conversion.
- Text processing.

## When?

Start: 04-03-2021

End: 3 months

## Who?

Designer, Developer, Tester - Ysaswini Tiramdas

## Where?

The application will be available on the web to all the doctors leveraging the availability of the internet and a computer.

# Feasibility Report:

## **Technical Feasibility:**

We have all the technologies that will be used for this project namely: Voice to Text conversion, web development tools like HTML, CSS, Bootstrap, JavaScript, and a database to store our required data. No extra hardware is necessary. The given technologies meet the needs for the development of the application providing all the solutions to the problems like how the data is getting stored or how the voice is converted to text or the ways of processing the text to get the desired values.

## **Operational Feasibility:**

Used in Hospitals by Doctors primarily to prescribe, diagnose, and advise patients. However, patients can use this prescription to get the medicines at the pharmacy, get more details of their diagnosis, or get their next appointment with the same doctor or any other referenced doctor. The pharmacies can use this data to predict the medicines to be stocked for that quarter of the year. The application will ease the work of doctors, pharmacists, and patients. It also follows all government regulations.

## **Economic Feasibility:**

Does not require any finance while development but requires it while deploying and hosting.