



SMART MEDICINE RECOMMENDER SYSTEM



GROUP 1

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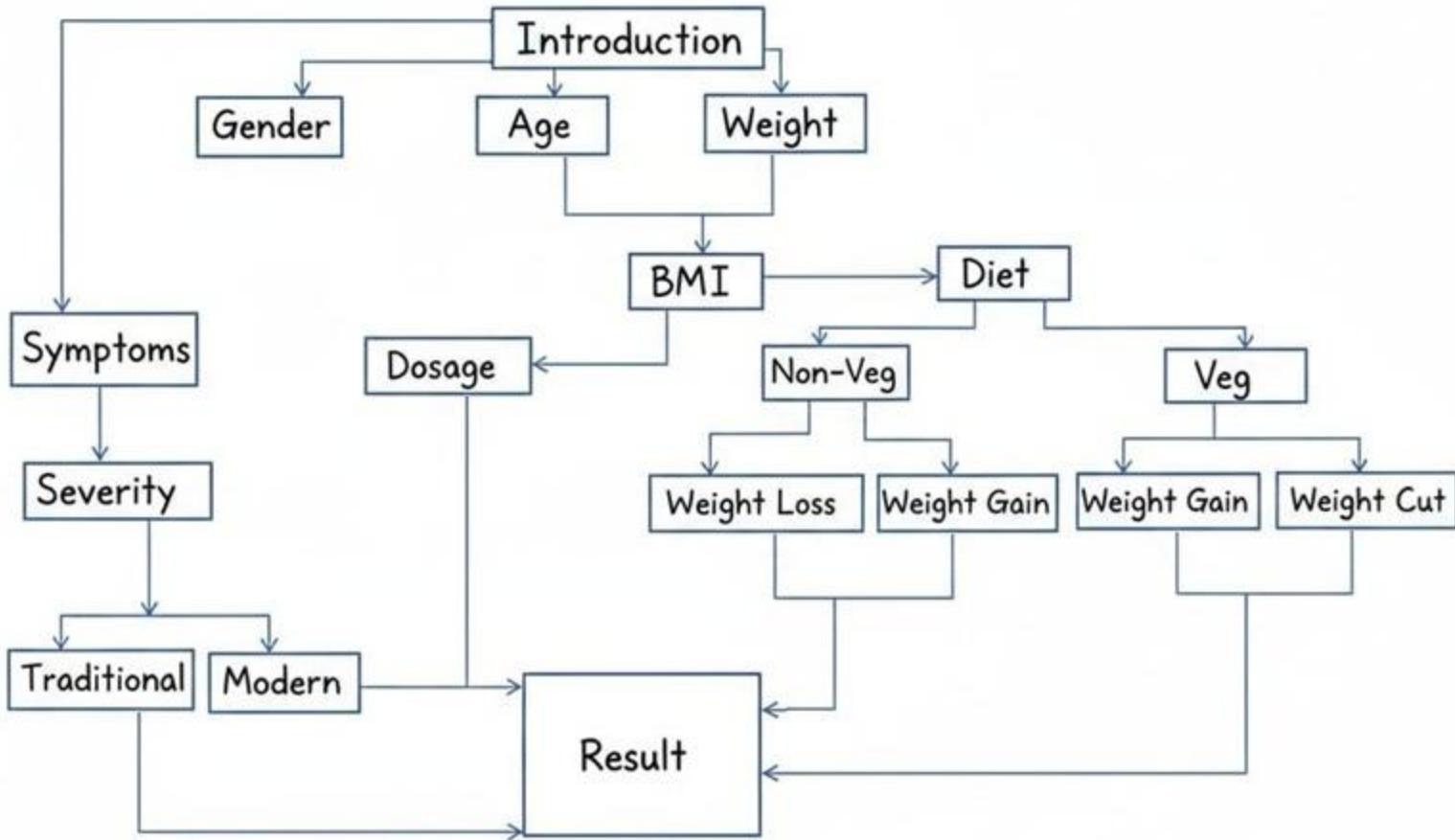
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PROBLEM STATEMENT

- Managing patient symptoms, identifying relevant medicines from a database, and suggesting appropriate dosage strength is a task that typically requires medical expertise and manual lookup. When dealing with multiple symptoms, determining which medicine matches best, what symptoms remain uncovered, or how severity and body metrics (such as BMI) influence recommended strength becomes time-consuming.



Batch-1

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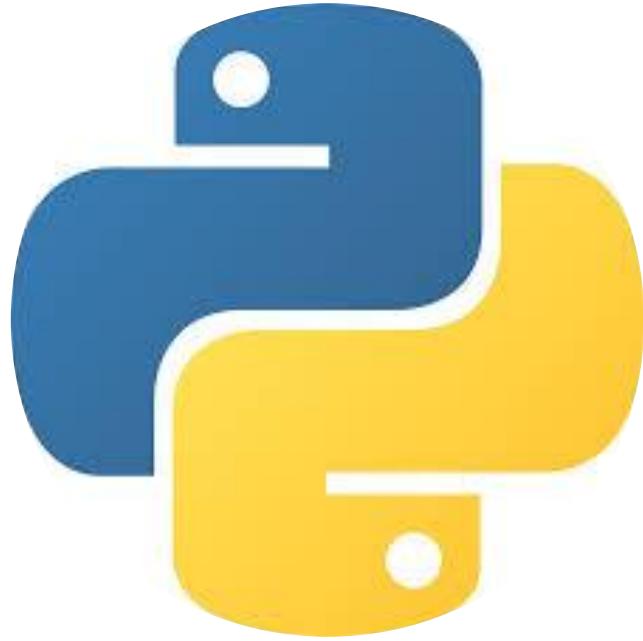
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GENERAL LOGIC

- INPUT SYMPTOMS, AGE, WEIGHT, SEVERITY
- MATCHES SYMPTOMS TO MEDICINES FROM DATABASE
- COMPUTES BMI AND ASSIGNS STRENGTH FOR MEDICINES
- DIET PLAN GENERATION DEPENDING ON USER GOALS
- SAVES PRESCRIPTION AND DIET PLAN AS TEXT FILE



LIBRARIES/MODULES USED

- TKINTER - GUI
- RE - TOKENIZING/TEXT CLEANING
- PATHLIB , OS -FILE HANDLING
- PANDAS - EXCEL DATA HANDLING
- TIME – CREATION/LOAD TIMES
- MATH,NUMPY- MATHEMATICAL OPERATIONS AND MATCHING

ROLES

- Database and text processing
Importing libraries, tokenization, prescription matching logic, dataset/file handling
- Medical Logic Layer
BMI calculations, severity rules, strength assignment and medicine logic
- Prescription GUI and Logic
Program Launcher, main prescription generation logic, saving system, program launching
- GUI (Interface)
Tkinter GUI setup and widgets, GUI Initialization

| Milestone | Quarter |
|-------------------------|---|
| Mohamed Sulaiman Rahman | Database and text processing, integration of code |
| Mayank Singhania | Medical Logic Layer |
| Mohamed Hasan | Prescription GUI and Logic |
| Harshwardhan | GUI(Interface) |

GUI OVERVIEW

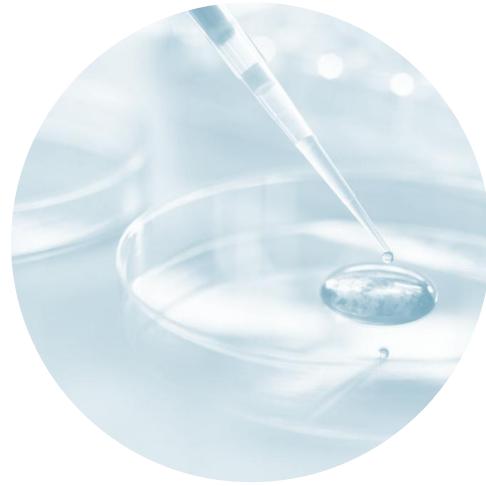
- Input Fields (symptoms, age , weight height)
- Slider widget for severity
- Buttons for different actions
- Panels for medicine assignments
- Metrics Panel for BMI
- Window for diet planner

SYMPTOM MATCHING LOGIC

- Normalize symptoms
- Convert to tokens
- Compare against database tokens
- Panels for medicine assignments
- Compute coverage score
- Choose best match

SAVING & OUTPUT

- Prescription compiled into text file
- Saved to Desktop automatically
- Includes all data
- Diet plan optionally included



THANK YOU

