



MUTHAYAMMAL ENGINEERING COLLEGE

(An Autonomous Institution)


(Approved by AICTE, New Delhi, Accredited by NAAC & Affiliated to Anna University)

Rasipuram - 637 408, Namakkal Dist., Tamil Nadu

CSE

PROJECT DEVELOPMENT

2022-26

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4	Project is done in the Department (In House) or Industry. If industry project, Name of the industry	In House	Industry
5	Project Title:	Ayur Medimate - Medicine Prescriber using Gen AI	
6	Monogram		

Description of the Project

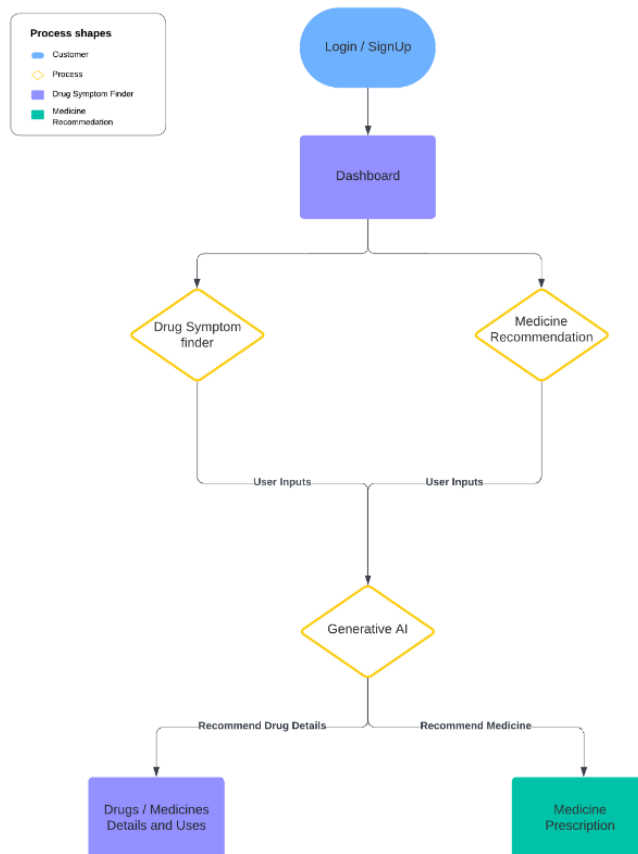
Objectives:

The primary objective of this project is to develop a robust system capable of accurately predicting suitable medications based on input symptoms. By employing AutoML regressors, the model optimizes the prediction process, providing personalized recommendations to users, thereby improving healthcare decision-making.

Brief Description about the Project:

The Drug Symptom Finder and Medicine Recommendation project is designed to streamline medication selection by leveraging machine learning technology. By analyzing a comprehensive dataset containing medication-drug relationships and associated symptoms, the system offers personalized recommendations to users based on their reported symptoms. Utilizing AutoML regressors, the project automates the process of model selection and training, optimizing predictive accuracy and efficiency. Through a user-friendly interface, individuals can input their symptoms, and the system generates tailored medication recommendations, enhancing healthcare decision-making and improving patient outcomes. Key features of the project include data preprocessing to handle missing values and outliers, feature engineering to enhance predictive performance, and model validation using robust evaluation metrics. Challenges such as data quality and model interpretability were addressed, paving the way for future enhancements such as the integration of real-time medical data and continuous model improvement.

Flow Diagram:



Materials /Software Used for Implementation:

HARDWARE REQUIREMENT

- System : Core i5 Processor
- Hard Disk : 256 SSD
- Monitor : 15` LCD/TFT
- Mouse : Logitech
- RAM : 4 GB

SOFTWARE REQUIREMENT

- Operating System : Windows

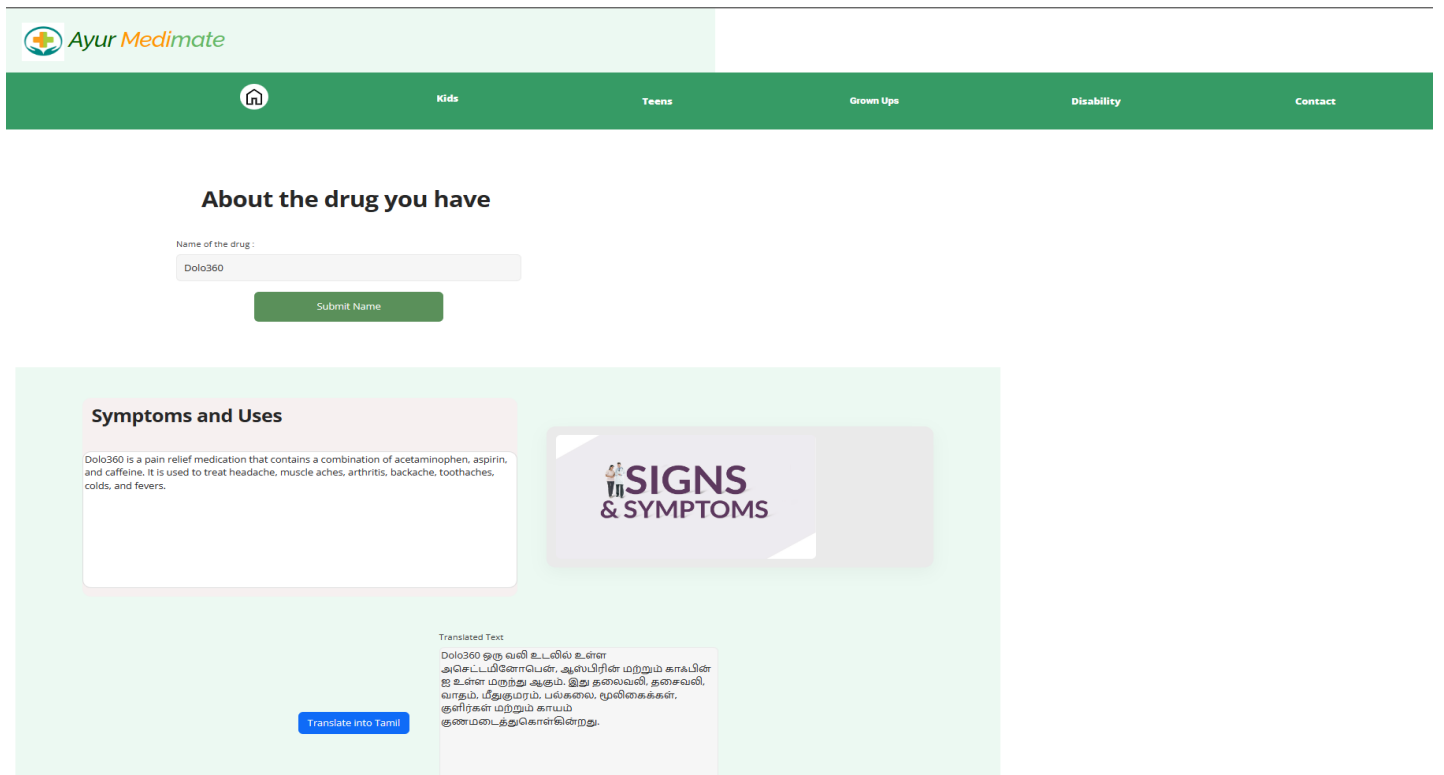
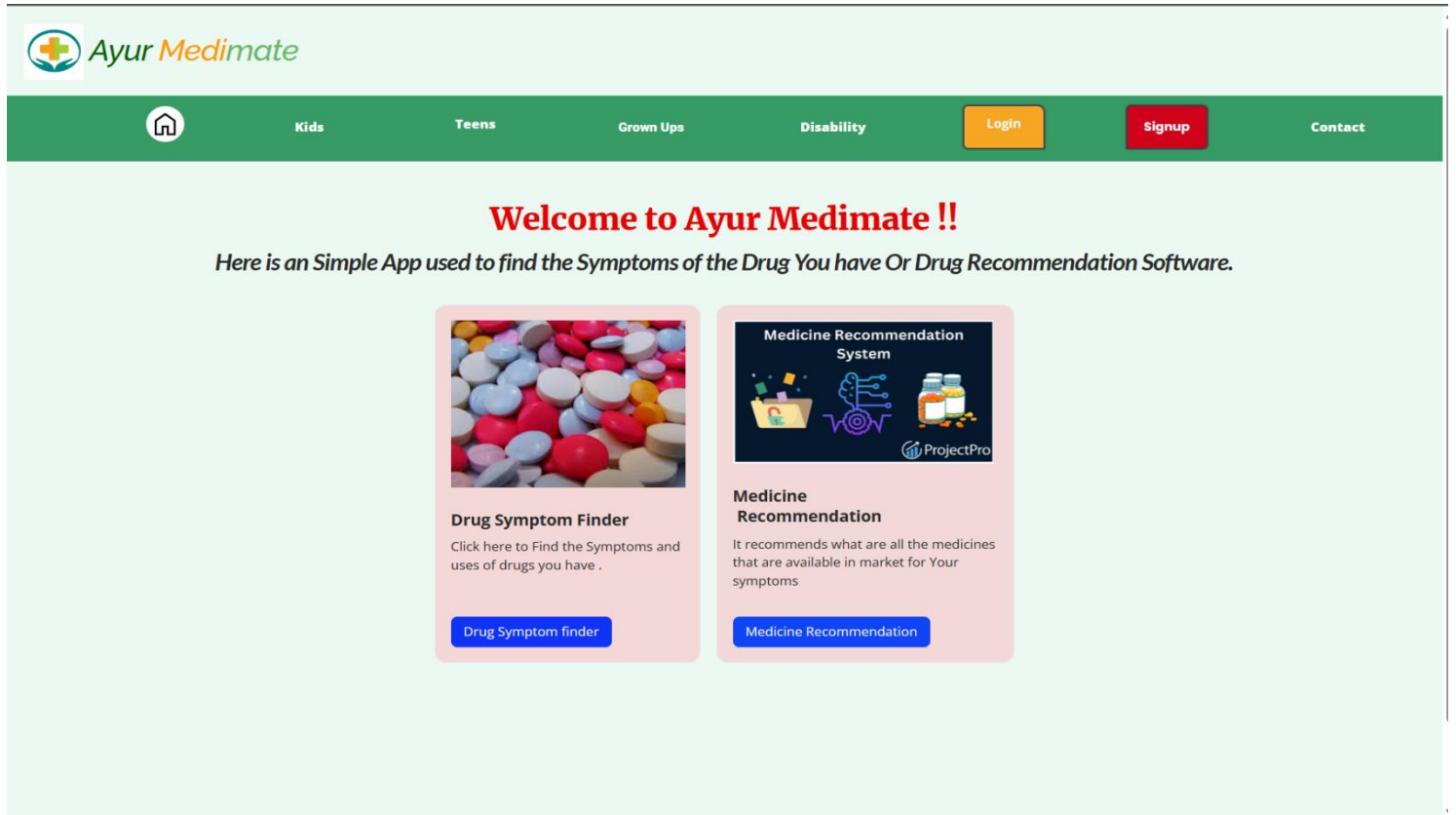
Budget Utilized with Details:

Components	Amount in Rupees
Data Set Collection	3000
Report preparation	1000
Implementation	6000
Testing cost	1500
TOTAL AMOUNT	11,500

Outcomes:

- The project successfully delivers accurate medication recommendations based on user-reported symptoms.
- Utilizing Auto ML regressors, the system optimizes prediction processes for tailored suggestions.
- Health care decision-making is significantly enhanced, leading to improved treatment outcomes.
- The user-friendly interface streamlines symptom input and recommendation retrieval, promoting proactive health care management.
- Automation of model selection and training improves efficiency for healthcare professionals

- The project serves as a foundation for future enhancements, including real-time data integration and continuous model improvement.
- Overall, it represents a significant advancement in leveraging machine learning for personalized healthcare solutions.



For Teenagers



Cold and Cough

Children under 6 years should not take cough and cold medicines, including decongestant nasal sprays. Children aged 6-11 years should not take cough and cold medicines unless a doctor, pharmacist or nurse practitioner tells them to. Saline nasal sprays and drops are safe options for clearing blocked noses for children older than 12 months.

[Buy Medicine](#)



Antihistamines

Antihistamines are medicines that relieve symptoms of allergies or hayfever, including itching, sneezing, swelling or rashes. Antihistamines can sometimes cause a dry mouth, upset stomach and drowsiness.

Some antihistamines are less likely to cause drowsiness. They include cetirizine (Zyrtec) and loratadine (Claratyne). These might be more suitable for your child, especially if they take them during the day. You can give non-drowsy antihistamines to children over 6 months.

[Buy Medicine](#)



Aspirin

Do not give aspirin to children under 12 years unless it's prescribed by a doctor.

Aspirin can make your child susceptible to Reye's syndrome, a rare but potentially fatal illness. If you're giving your child any over-the-counter medicines, check with your pharmacist or doctor to make sure they don't have aspirin.

[Buy Medicine](#)

Feasibility for Product Making:

The product's feasibility is rooted in extensive medication-drug datasets, facilitating precise recommendations. AutoML regressors streamline model selection and training, simplifying development. User-friendly interfaces enhance usability by streamlining symptom input and recommendation retrieval. Process automation boosts efficiency, minimizing deployment resources. Its scalability enables integration with real-time medical data, ensuring adaptability. Market demand supports its viability and adoption in personalized healthcare solutions. Regulatory compliance ensures adherence to standards. Collaboration with healthcare professionals enhances relevance and effectiveness in clinical settings, aligning with evolving needs. Overall, the project's robust foundation, simplified development process, user-centric design, efficiency gains, scalability, market demand, regulatory compliance, and collaboration with healthcare experts mark it as a significant advancement in personalized healthcare technology.

Mapping of Program Outcomes (POs) and Program Specific Outcomes (PSOs):

(Mark √ in the box)

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO 12	PSO1	PSO2	PSO3
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

Project Co-Ordinator

HOD

