• **Team Name :** SSD_M2023_7
• **Team No. :** 7
• **Project Title :** Nutrition Counter
• **Project No. :** 8

• **Instructor/Mentor (mentioned in project details sheet) :** Prof. Charu Sharma

• **Project GitHub Repository URL:**
https://github.com/harshita8018/7_Nutrition_Counter

• **Members Details (with Roll Numbers) :**

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Objective

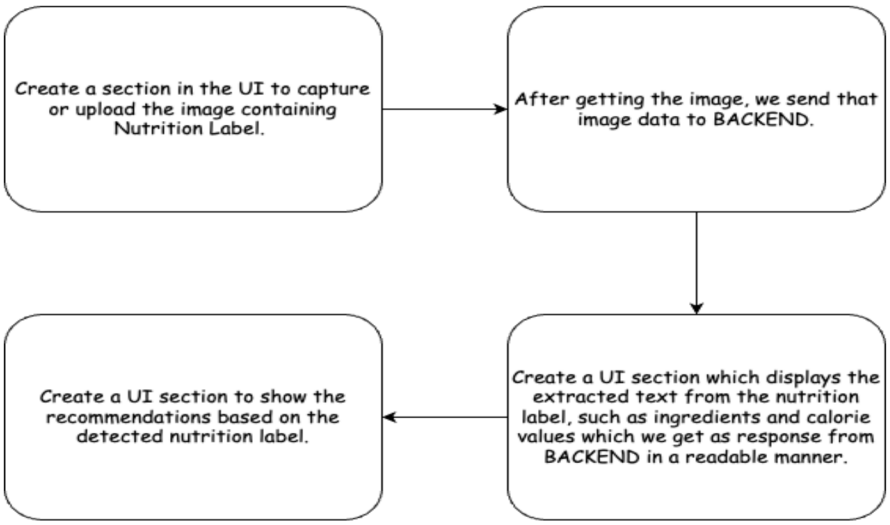
- Our primary goal is to create a user-friendly tool that extracts and analyzes nutrition data from food packaging images.
- The secondary objective involves using the extracted data to inform users about whether the food is nutritious or not and give them recommendations.

Overview

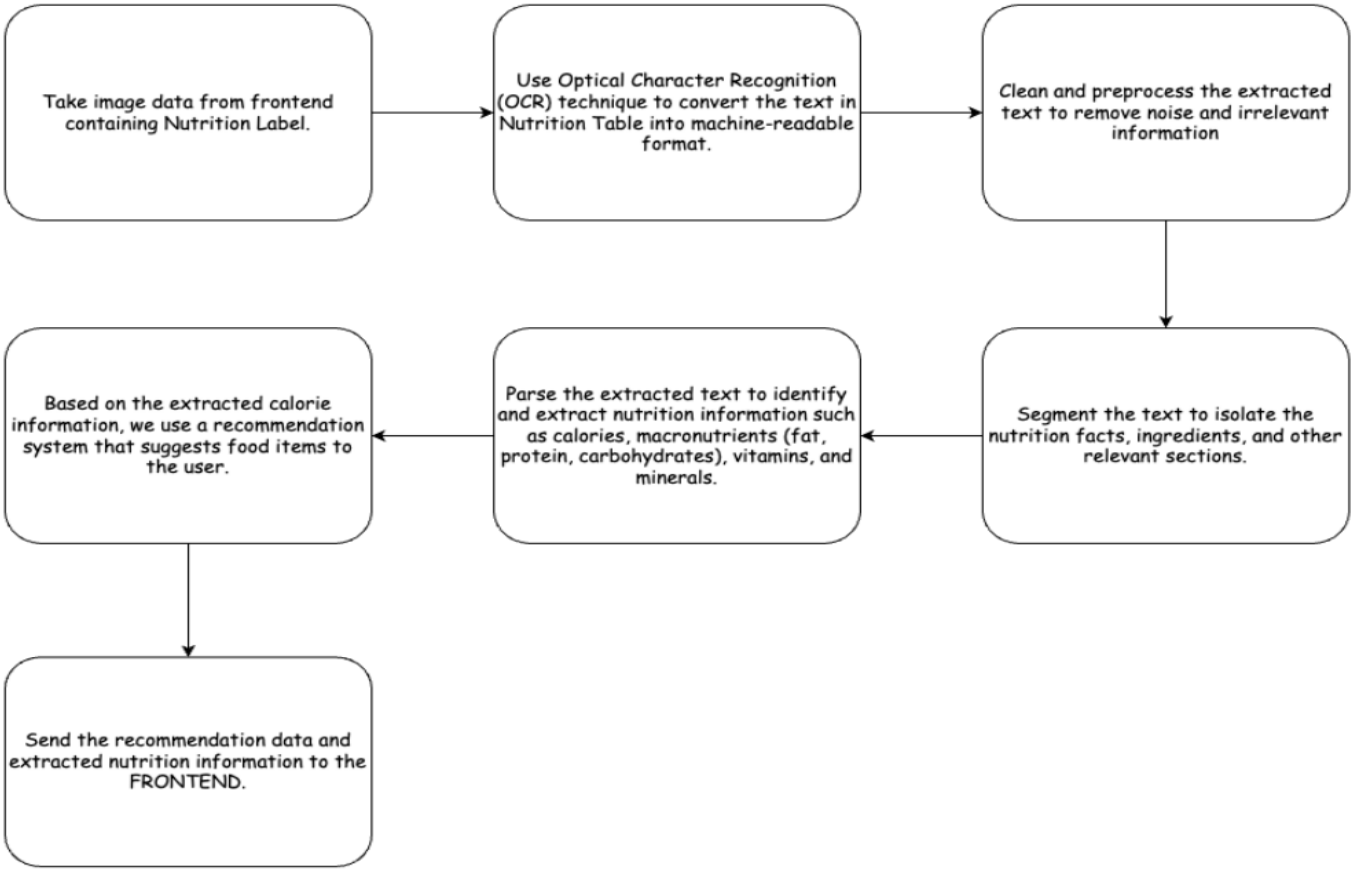
1. Account creation and login
2. Image type selection and upload
3. Data extraction and processing
4. Displaying Results - Nutrition Content and Recommendation
5. User history is also stored

Flow Diagram

- FrontEnd



- BackEnd



Technology Used

- **Model Used -** Tesseract
- **Front End -** ReactJS
- **Back End -** Python
- **DataBase -** MongoDB

Challenges Faced

- Model text extraction accuracy
- Image reconstruction from binary format

Future Scope

- User Profile Enhancements like storing their preferences, dietary restrictions and providing suggestions based on historical data
- Offering multilingual support
- Expand visualization options beyond pie charts, such as graphs, comparative analysis, or interactive visual representations for nutritional data. Provide customizable charts and graphs based on user preferences.
- Implement feedback mechanism to collect user opinion and provide better suggestions.