Project Design Phase-II
Data Flow Diagram & User Stories

Date	19 November 2023
Team ID	593161
Project Name	Anticipating Caloric Expenditure With ML
Maximum Marks	4 Marks

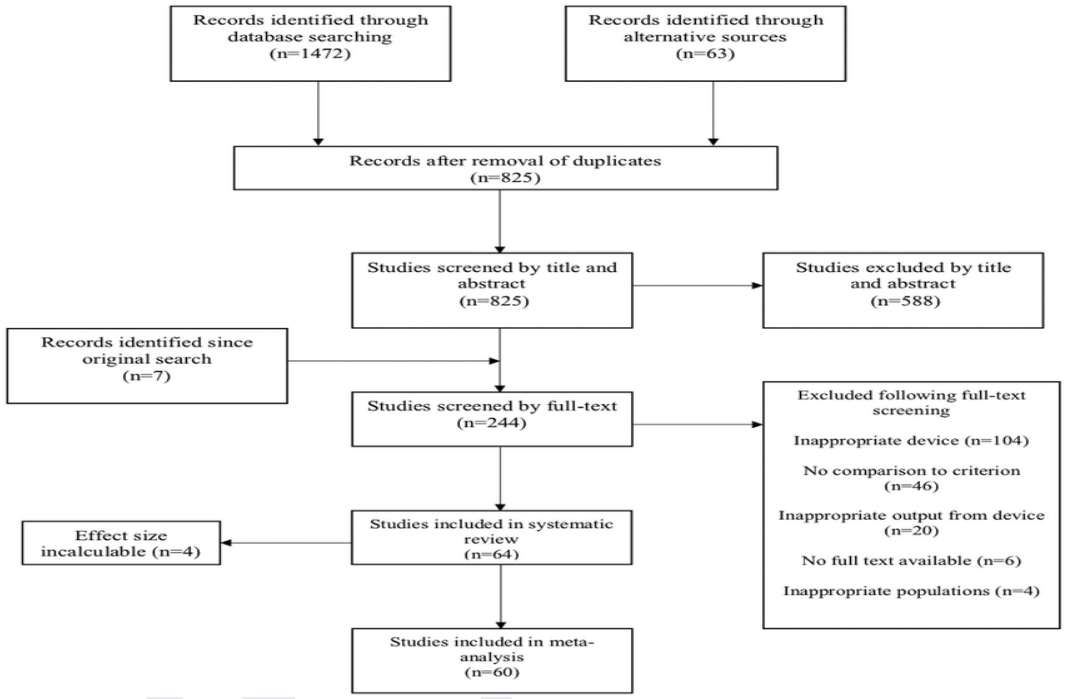
Data Flow Diagrams:

A data-flow diagram is a visual aid used to illustrate how data moves through a system or process. Information regarding each entity's inputs and outputs as well as the process itself are also provided by the DFD. There are no decision rules or loops in a data-flow diagram, so there is no control flow.

Level 0 DFDs, also known as context diagrams, are the most basic data flow diagrams. They provide a broad view that is easily digestible but offers little detail.

Level 1 DFDs are still a general overview, but they go into more detail than a context diagram. In level 1 DFD, the single process node from the context diagram is broken down into sub-processes.

Level 2+ DFDs simply break processes down into more detailed sub-processes. In theory, DFDs could go beyond level 3, but they rarely do.



User Stories :

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release

Fitness Enthusiast	Accurate Prediction	USN-1	As a fitness enthusiast, I want the ML system to provide accurate predictions of my daily caloric expenditure based on my activity level, so I can optimize my nutrition and achieve my fitness goals more effectively.	The ML system accurately predicts daily caloric expenditure within a margin of error not exceeding 5%.	High	Sprint-1
Health Conscious Individual	Personalized Estimation	USN-2	As a health-conscious individual, I want the ML model to consider not only my physical activities but also factors like age, weight, and gender when estimating caloric expenditure, ensuring a personalized and accurate assessment.email once I have registered for the application	The ML model considers age, weight, gender, and any relevant health conditions when estimating caloric expenditure.	High	Sprint-1
Fitness Tracker User	Seamless Integration	USN-3	As a user with a fitness tracker, I want the ML system to seamlessly integrate with my device's data, utilizing real-time information on my heart rate, steps taken, and sleep patterns to enhance the accuracy of caloric expenditure predictions.	The ML system seamlessly integrates with popular fitness trackers.	Low	Sprint-2

Weight loss seeker	Impact Analysis	USN-4	As a person trying to lose weight, I want the ML system to provide insights into how different types of exercises impact my caloric expenditure, helping me choose the most effective workouts for my weight loss journey.	The ML system provides insights into how different types of exercises impact caloric expenditure.	Medium	Sprint-1
Busy Professional	Mobile Interface	USN-5	As a busy professional, I want the ML system to offer a user-friendly mobile app interface that provides daily, weekly, and monthly summaries of my caloric expenditure, allowing me to easily track my progress and make informed decisions about my lifestyle.	The ML system offers a mobile app interface with an intuitive design.	High	Sprint-1

User with changing exercise routine	Adaptive Learning	USN-6	As a user who engages in various physical activities, I want the ML system to adapt and learn from my changing exercise routines over time, continuously refining its predictions to provide the most accurate caloric expenditure estimates.	The ML model adapts and learns from the user's changing exercise routines over time.	High	Sprint 3
Health Conscious Parent	Family Mode	USN-7	As a health-conscious parent, I want the ML system to include a family mode where it can anticipate caloric expenditure for each family member, helping us maintain a healthy and active lifestyle together.	The ML system includes a family mode.	Low	Sprint 2
Overall well being seeker	Holistic Recommendations	USN-8	As a user interested in overall well-being, I want the ML system to provide not only caloric expenditure predictions but also personalized recommendations for maintaining a balanced and healthy diet based on my individual needs and goals.	In addition to caloric expenditure predictions, the ML system offers personalized recommendations for maintaining a balanced and healthy diet.	Medium	Sprint 2

Administrator	Data Management	USN-9	The system should provide administrators with tools to manage and monitor user data securely. This includes the ability to view and analyze aggregated usage data, ensure compliance with data privacy regulations, and implement measures to protect against unauthorized access. Admin tools should support efficient troubleshooting and resolution of any issues related to data integrity or system performance.	The administrator can access a secure admin panel with tools for managing and monitoring user data.	High	Sprint 3