AI - POWERED NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS

TEAM LEADER   **:   Aravind Kumar .S**

DEPARTMENT   **:   COMPUTER SCIENCE & ENGINEERING**

COLLEGE NAME   **: Narasu's Sarathy Institute of Technology**

DATA FLOW DIAGRAMS:


```
The Main Program
   |
   +------------------------+
   |                        |
Maintenance              The User Inferface
Sysytem                    |
   |            +----------+----------+----------+
Food Compostion  Nutrition   Evalution    Health Weigth
Database         Calculator  of dietay    Scale
   |                         nutrition
   +-----+-----+-----+
  Add  Delete Search Modify
```



```
Start
  |
Input personal details
  |
Calculate Calorie needs
  |
Determine Diet Type
  |
Select Initial Population
  |
Calculate Eulidean Distance
  |
Sort Meals Using Smallest Distance
  |
Approved by user --- Yes ---> Substitute meal with Alternatives
  |
  No
  |
Done
```

Fitness Management

Members Management

Facility Management

Customer Management

Login Management

System User Management

Fitness Center Management System

Generate Fitness Report

Generate Members Report

Generate Facility Report

Generate Customer Report

Check User Login Report

Generate System User Report

First level DFD - Fitness Center Management System

Admin

Login To System

Check roles of Access

Manage Fitness Details

Manage member Details

Manage Facility Details

Forget Password

Check Credentials

Manange Modules

Manage Fitness Class Details

Manage Branch Details

Send Email to user

Manage Trainer Details

Manage Report

Manage System Admins

Manage Roles of User

Manage User Permission

Second Level DFD - Fitness Center Management System