



DATABASE SYSTEM AND APPLICATIONS

MINI PROJECT

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DEPT: ELECTRONICS AND INSTRUMENTATION

SUB CODE: CS7594

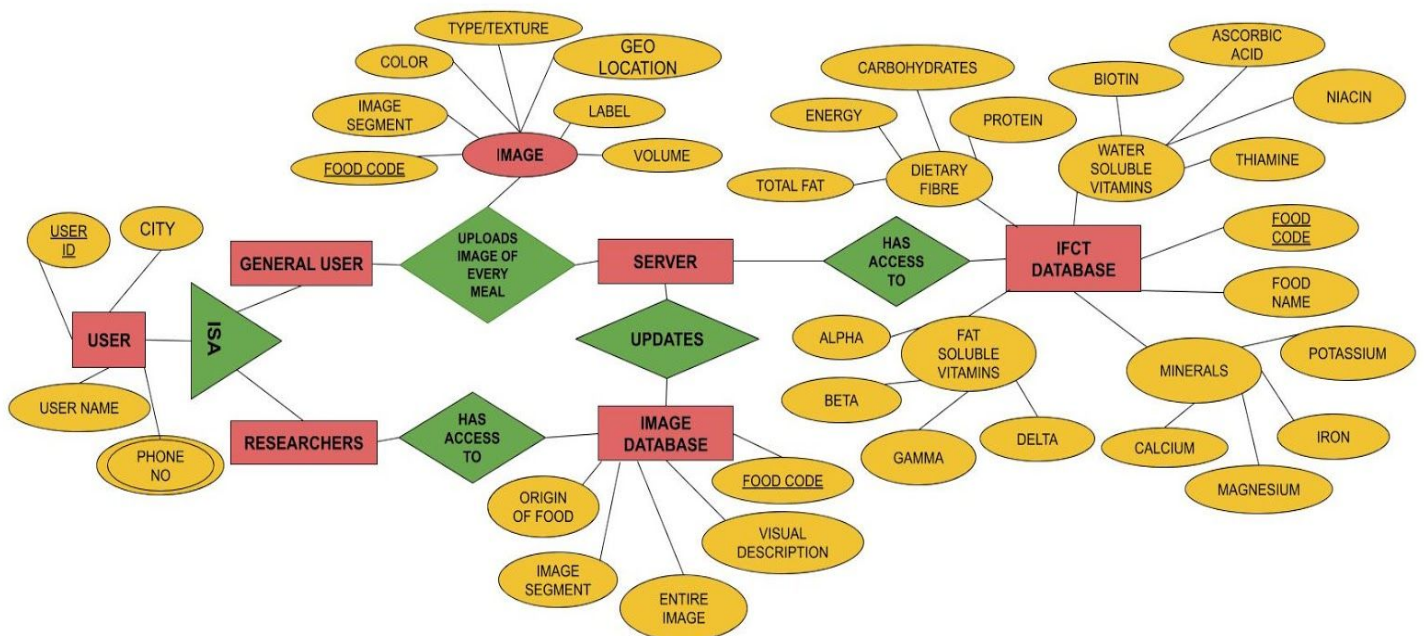
TOPIC: DIETARY ASSESSMENT AND ANALYSIS

DIETARY ASSESSMENT AND ANALYSIS

OBJECTIVE:

- To provide suggestions on dietary intake for general users
- To help researchers, nutritionists or dieticians conduct study on food habits of people belonging to different geographical locations.

ER DIAGRAM:



(Created using google drawings)

IFCT Database Application:



The Indian Food Composition Tables was brought out by the National Institute of Nutrition. This application makes use of the image uploaded by general users of their every day meal. The image is then segmented, analysed to know the quantity and geo location of users, labelled and updated in the image database. The image database that is maintained separately helps the researchers for understanding the food habits of people.

FROM THE ER DIAGRAM:

USER:

USER ID	USER NAME	PHONE NO	CITY
10202001	Sangeetha	9500034789	Chennai
10202002	Srinidhi	9760026871	Thiruvallur
10202003	Jayashree	6789034571	Coimbatore







IMAGE:

FOOD CODE	IMAGE SEGMENT	COLOR	TEXTURE/TYPE
756		Reddish	Smooth, solid
245		Medium shade of brown, green	Course, solid
865		White, Yellow	Soft, solid

CONTINUATION OF IMAGE TABLE:

GEO LOCATION	LABEL	VOLUME
Kashmir	Apple, Jam	170g
Uttar Pradesh	Mushroom, greens	300g
Northern Plains	Egg	140g

IMAGE DATABASE:

FOOD CODE	IMAGE SEGMENT	ENTIRE IMAGE	ORIGIN OF FOOD	VISUAL DESCRIPTION
756			France	Yummy, Sweet, jam
245			Mexican	Spicy, flavorful
865			Rome	Mild, Bland

IFCT DATABASE:

FOOD CODE	FOOD NAME
756	Apple crisp dessert
245	Spicy mushroom and greens
865	Half boiled egg

DIETARY FIBRE:

FOOD CODE	PROTEIN	ENERGY	TOTAL FAT	CARBOHYDRATES
756	0.5g	105kcal	0.4g	160g
245	9.3g	39kcal	0.9g	9.7g
865	19g	161kcal	17g	1.5g

WATER SOLUBLE VITAMINS:

FOOD CODE	BIOTIN	NIACIN	ASCORBIC ACID	THIAMINE
756	4.2mg	3.42mg	4.5mg	4mg
245	8.4mg	6.92mg	1.2mg	5.7mg
865	6.9mg	9.3mg	7.4mg	3.23mg

FAT SOLUBLE VITAMINS:

FOOD CODE	ALPHA	BETA	GAMMA	DELTA
756	1.42mg	5mg	4.6mg	4.2mg
245	6.92mg	3.7mg	1.7mg	8.4mg
865	3.3mg	7.23mg	3.23mg	6.9mg

MINERALS:

FOOD CODE	POTASSIUM	CALCIUM	MAGNESIUM	IRON
756	2.5mg	8.1mg	3.1mg	1.3mg
245	7.2mg	4.3mg	8.2mg	14.2mg
865	8.2mg	5.9mg	9.2mg	11.2mg

CONCLUSION:

Thus, this design can be implemented as a complete database system using MySQL, MSaccess, Oracle and many others.

