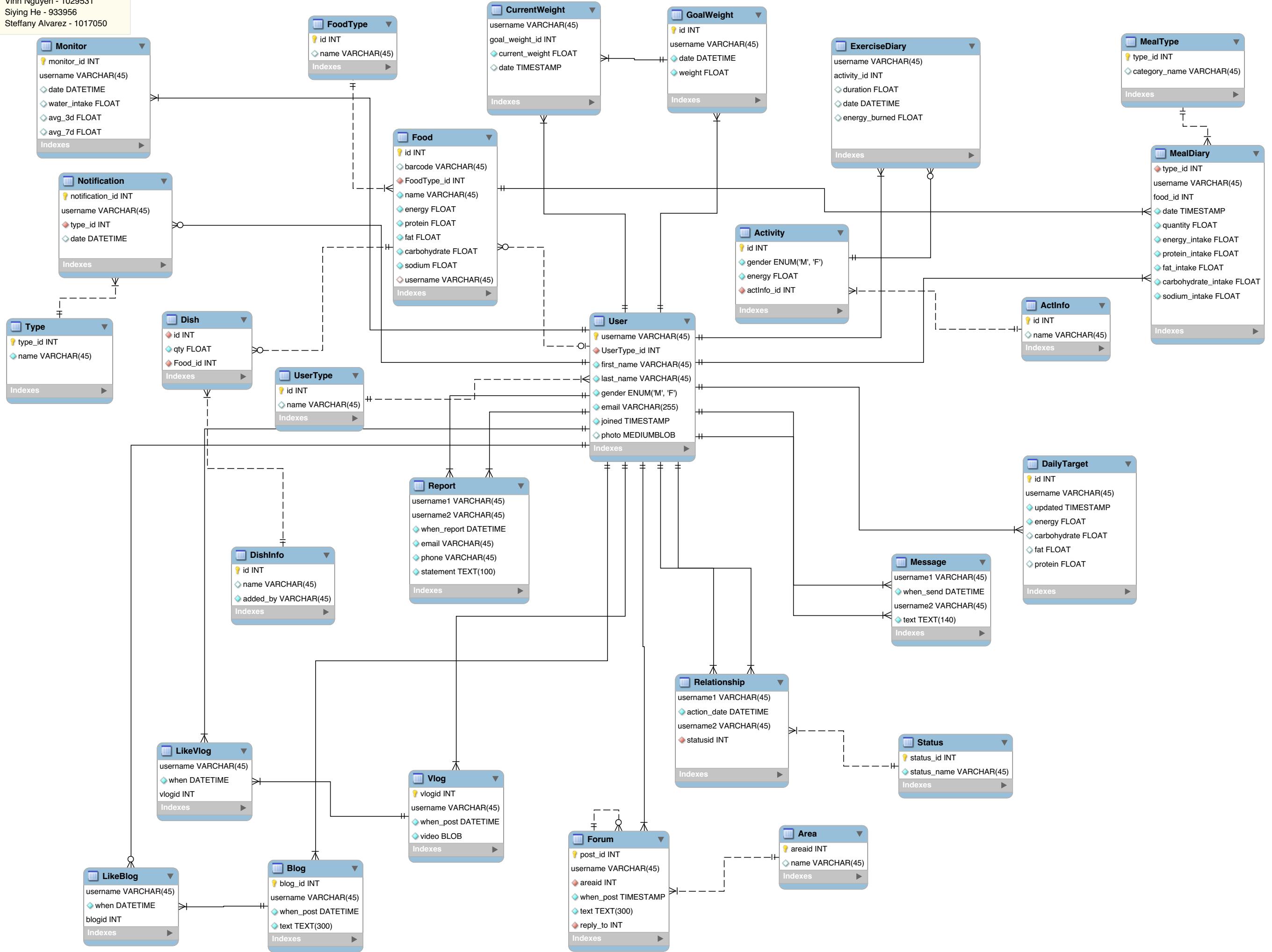


INFO90002 Assignment 1
Semester 1 2019
E-R Modelling

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Assumptions

- If there is no food record for the day at 11:59pm in MealDiary table, empty row (with NULL) will be added. Similarly, the app will work the same way for water intake in Monitor table.
- When a user selects a dish in the Dish table, the foods contained in the dish can be copied to create records in the Mealdiary table.
- There are built-in foods in the database of the application already.
- As for relationship, we connect it to the Status table. Each id in it represents a status: pending, accepted, rejected, and blocked.

DATA DICTIONARY		
User		
Attribute Name	Data Type	Description
username	VARCHAR(45) NOT NULL	Uniquely identifies an account. Value picked by user.
userType_id	INT UNSIGNED NOT NULL	Identifies user type. e.g., 1: private user, 2: public user. Derived from UserType.id
first_name	VARCHAR(45) NOT NULL	First name of user
last_name	VARCHAR(45) NOT NULL	Last name of user
gender	ENUM('M', 'F') NOT NULL	Two options: 'M' (male) and 'F' (female)
email	VARCHAR(255) NOT NULL	Unique for each account
joined	TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP	Join date / date when account was created
photo	MEDIUMBLOB NULL DEFAULT NULL	Profile picture (optional)
MealDiary		
Attribute Name	Data Type	Description
type_id	INT NOT NULL	Identifies the type of meal. Derived from MealType.type_id
username	VARCHAR(45) NOT NULL	Derived from User.username
food_id	INT UNSIGNED NOT NULL	Identifies specific food inside the meal. Derived from Food.id
date	TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP	Identifies date when a meal was inputed.
quantity	FLOAT NOT NULL	Identifies quantity consumed per meal.
energy_intake	FLOAT NOT NULL	Identifies the calories in food times the quantity consumed.
protein_intake	FLOAT NOT NULL	Identifies the amount of protein in food times the quantity consumed.
fat_intake	FLOAT NOT NULL	Identifies the amount of fat in food times the quantity consumed.
carbohydrate_intake	FLOAT NOT NULL	Identifies the amount of carbohydrates in food times the quantity consumed.
sodium_intake	FLOAT NOT NULL	Identifies the amount of sodium in food times the quantity consumed.
Forum		
Attribute Name	Data Type	Description
post_id	INT UNSIGNED NOT NULL AUTO_INCREMENT	Uniquely identifies any post in five areas of the forum. It could be an initial post of any topic or a reply/comment to any other post
username	VARVARCHAR(45) NOT NULL CHAR(45) NOT NULL	Derived from column username in User table.

areaid	INT NOT NULL	Identifies five areas of topics. Connected to column areaid in Area table.
when_post	TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP	Indicates when the post was posted.
text	TEXT(300) NOT NULL	Stores the text in the post
reply_to	INT NOT NULL DEFAULT NULL	Identifies which post the user replied. Derived from column postid in Forum table.

Food

Attribute Name	Data Type	Description
id	INT UNSIGNED NOT NULL AUTO_INCREMENT	Uniquely identifies a food
barcode	VARCHAR(45) NULL DEFAULT NULL	Identifies the string of characters representing the code of the food Since Barcode length varies(e.g. EAN-13), we'd like to spare enough space for variety of food. That's why we put VARCHAR(45) here.
FoodType_id	FoodType_id	Derived from column id in FoodType table.
name	VARCHAR(45) NOT NULL	Identifies the name of the food.
energy	FLOAT NOT NULL	Identifies the amount of calories per unit of food.
protein	FLOAT NOT NULL	Identifies the amount of protein per unit of food.
fat	FLOAT NOT NULL	Identifies the amount of fat per unit of food.
carbohydrate	FLOAT NOT NULL	Identifies the amount of carbohydrate per unit of food.
sodium	FLOAT NOT NULL	Identifies the amount of sodium per unit of food.
username	VARCHAR(45) NULL DEFAULT NULL	Identifies the user who added the food to the database. If null, built-in food. If not null, derived from column username in User table

DailyTarget

Attribute Name	Data Type	Description
id	INT UNSIGNED NOT NULL AUTO_INCREMENT	Uniquely identifies calories and macronutrients target
username	VARCHAR(45) NOT NULL	Derived from User.username
updated	TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP	Identifies when the target was updated

energy	FLOAT NOT NULL	Identifies the daily energy target. User must input calories target referring to the case.
carbohydrate	FLOAT NULL DEFAULT NULL	Identifies the daily carbohydrate target
fat	FLOAT NULL DEFAULT NULL	Identifies the daily fat target
protein	FLOAT NULL DEFAULT NULL	Identifies the daily protein target

Work Breakdown	
Name	Table
Vinh Nguyen	DailyTarget
	Activity
	ActInfo
	Dish
	DishInfo
	GoalWeight
	User
	UserType
	Food
	FoodType
Siying He	Forum
	Message
	LikeBlog
	Area
	LikeVlog
	Relationship
	Vlog
	Blog
	Report
	Status
Steffany Alvarez	Type
	Monitor
	Notification
	ExerciseDiary
	MealDiary
	CurrentWeight
	MealType