



Engineering Assignment Coversheet

Student Number(s)

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Group Code (if applicable):

Team YZQ

Please note that you:

- Must keep a full copy of your submission for this assignment
- Must staple this assignment
- Must NOT use binders or plastic folders except for large assignments

Assignment Title:	INFO90002 Assignment 1
Subject Number:	INFO90002
Subject Name:	Database System & Information Modelling
Student Name:	Tingli Qiu 990497 Shengyi Zhao 990160 Chang Yang 1044196
Lecturer/Tutor:	Dr. Simon D'Alfonso David Eccles
Due Date:	April 12, 2019

For Late Assignments Only

Has an extension been granted? Yes / No (circle)

A per-day late penalty may apply if you submit this assignment after the due date/extension. Please check with your Department/coordinator for further information.

Plagiarism

Plagiarism is the act of representing as one's own original work the creative works of another, without appropriate acknowledgment of the author or source.

Collusion

Collusion is the presentation by a student of an assignment as his or her own which is in fact the result in whole or in part of unauthorised collaboration with another person or persons. Collusion involves the cooperation of two or more students in plagiarism or other forms of academic misconduct.

Both collusion and plagiarism can occur in group work. For examples of plagiarism, collusion and academic misconduct in group work please see the University's policy on Academic Honesty and Plagiarism:

<http://academichonesty.unimelb.edu.au/>

Plagiarism and collusion constitute cheating. Disciplinary action will be taken against students who engage in plagiarism and collusion as outlined in University policy. Proven involvement in plagiarism or collusion may be recorded on my academic file in accordance with Statute 13.1.18.

STUDENT DECLARATION

Please sign below to indicate that you understand the following statements:

I declare that:

- This assignment is my own original work, except where I have appropriately cited the original source.
- This assignment has not previously been submitted for assessment in this or any other subject.

For the purposes of assessment, I give the assessor of this assignment the permission to:

- Reproduce this assignment and provide a copy to another member of staff; and
- Take steps to authenticate the assignment, including communicating a copy of this assignment to a checking service (which may retain a copy of the assignment on its database for future plagiarism checking).

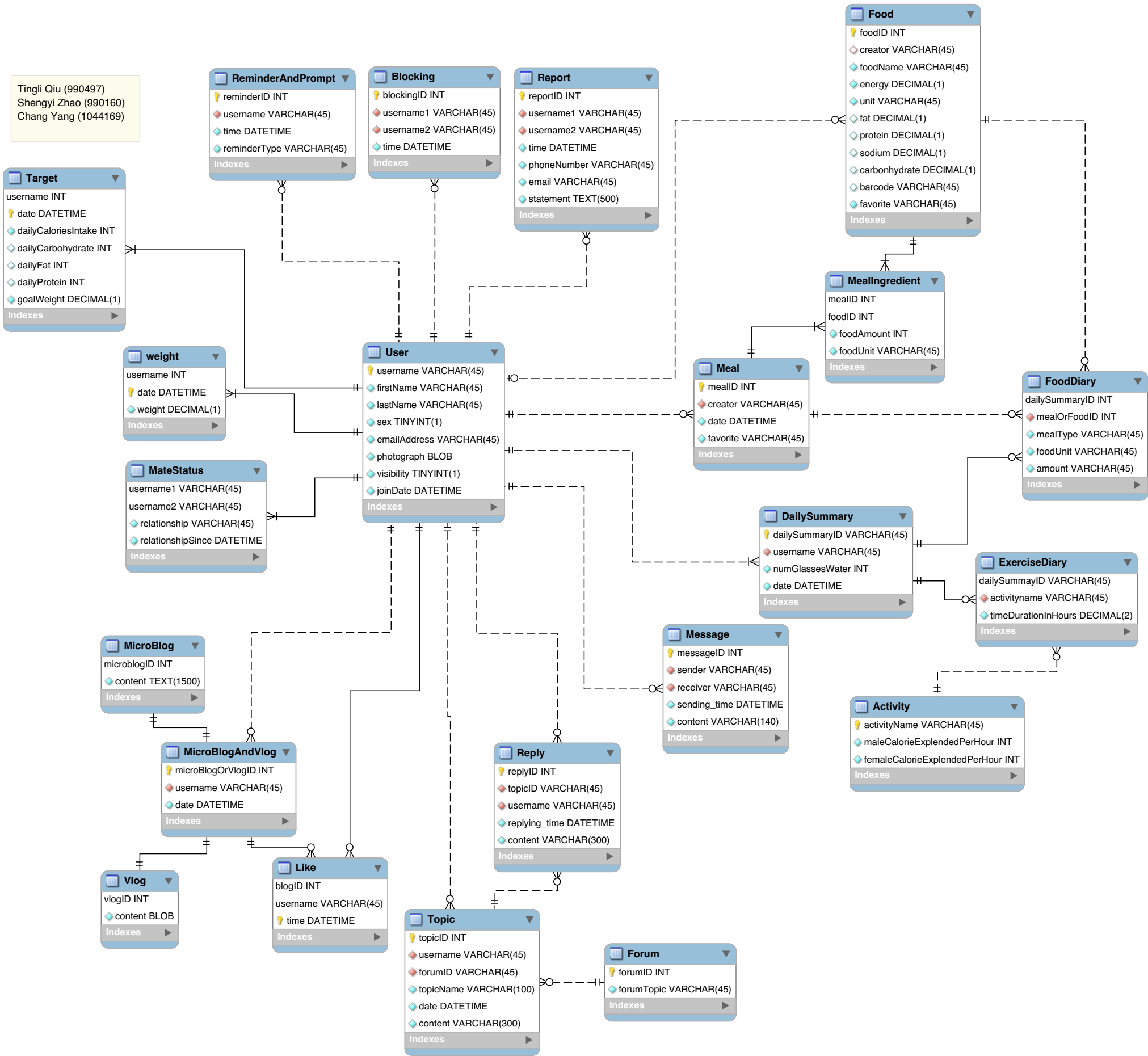
Student signature

Date

Tingli Qiu

April 12th, 2019

Tingli Qiu (990497)
Shengyi Zhao (990160)
Chang Yang (1044169)



Data Dictionaries

Entity: User							
Attribute	Data Type	NOTNULL	PK	FK	FK Referenced Table	FK Referenced Entity	Comment
username	VARCHAR(45)	YES	YES	NO			
firstName	VARCHAR(45)	YES	NO	NO			
lastName	VARCHAR(45)	YES	NO	NO			
sex	TINYINT(1)	YES	NO	NO			1 for male and 0 for female
emailAddress	VARCHAR(45)	YES	NO	NO			
photograph	BLOB	NO	NO	NO			
visibility	TINYINT(1)	YES	NO	NO			Public profile or private profile. 1 for visible to other users and 0 for not visible to other users.
joinDate	DATETIME	YES	NO	NO			

Entity: Target							
Attribute	Data Type	NOTNULL	PK	FK	FK Referenced Table	FK Reference d Entity	Comment
username	INT	YES	YES	YES	User	username	
date	DATETIME	YES	YES	NO			The date when the target was set
dailyCaloriesIntake	INT	YES	NO	NO			
dailyCarbohydrate	INT	NO	NO	NO			
dailyFat	INT	NO	NO	NO			
dailyProtein	INT	NO	NO	NO			
goaltWeight	DECIMAL(1)	YES	NO	NO			User's goal weight in kilograms.

Entity: Food							
Attribute	Data Type	NOTNULL	PK	FK	FK Referenced Table	FK Referenced Entity	Comment
foodid	INT	YES	YES	NO			
foodname	VARCHAR(45)	YES	NO	NO			Name of food which is default or given by user
creator	VARCHAR(45)	NO	NO	YES	User	username	Null if the food was not created by a user
energy	DECIMAL(1)	YES	NO	NO			The energy of the food per unit
unit	VARCHAR(45)	YES	NO	NO			The unit of food when counting calories
fat	DECIMAL(1)	NO	NO	NO			
protein	DECIMAL(1)	NO	NO	NO			
sodium	DECIMAL(1)	NO	NO	NO			
carbonhydrate	DECIMAL(1)	NO	NO	NO			
barcode	VARCHAR(45)	NO	NO	NO			Number of the food barcode. Null if the food is not a processed item.
favorite	TINYINT(1)	YES	NO	NO			1 if it is a favorite food for the creator, 0 if it is not.

Entity: Report							
Attribute	Data Type	NOTNULL	PK	FK	FK Referenced Table	FK Reference d Entity	Comment
reportID	INT	YES	YES	NO			
username1	VARCHAR(45)	YES	NO	YES	User	username	The reporter
username2	VARCHAR(45)	YES	NO	YES	User	username	The user was reported
time	DATETIME	YES	NO	NO			
phoneNumber	VARCHAR(45)	YES	NO	NO			This is different from registration information
email	VARCHAR(45)	YES	NO	NO			This is different from registration information
statement	TEXT(500)	YES	NO	NO			

Entity: MateRecord							
Attribute	Data Type	NOTNULL	PK	FK	FK Referenced Table	FK Reference d Entity	Comment
mateRecordID	INT	YES	YES	NO			
username1	VARCHAR(45)	YES	NO	YES	User	username	The request sender
username2	VARCHAR(45)	YES	NO	YES	User	username	The request receiver
requestType	VARCHAR(45)	YES	NO	NO			Type of request, like 'friend request' or 'unfriend request'
time	DATETIME	YES	NO	NO			
result	TINYINT(1)	YES	NO	NO			1 for request succeed, 0 for request failed. 'Unfriend' request is with default 1.

Assumptions:

1. We assume that a 'meal' created by a user can be added to one of four meal categories, just like food. For example, a 'meal' can be shown together with some other foods in one breakfast.
2. We have Blog and Vlog tables as 'sub-tables' to the 'super-table' MicroBlogAndVlog.
3. Even if a user doesn't record any information for a day, he or she will still have a daily summary on that day.
4. We assume words have average length 5, and this assumption was applied to some word limit cases.

Work Breakdown

This assignment was done by all of the three group members during five group discussions.