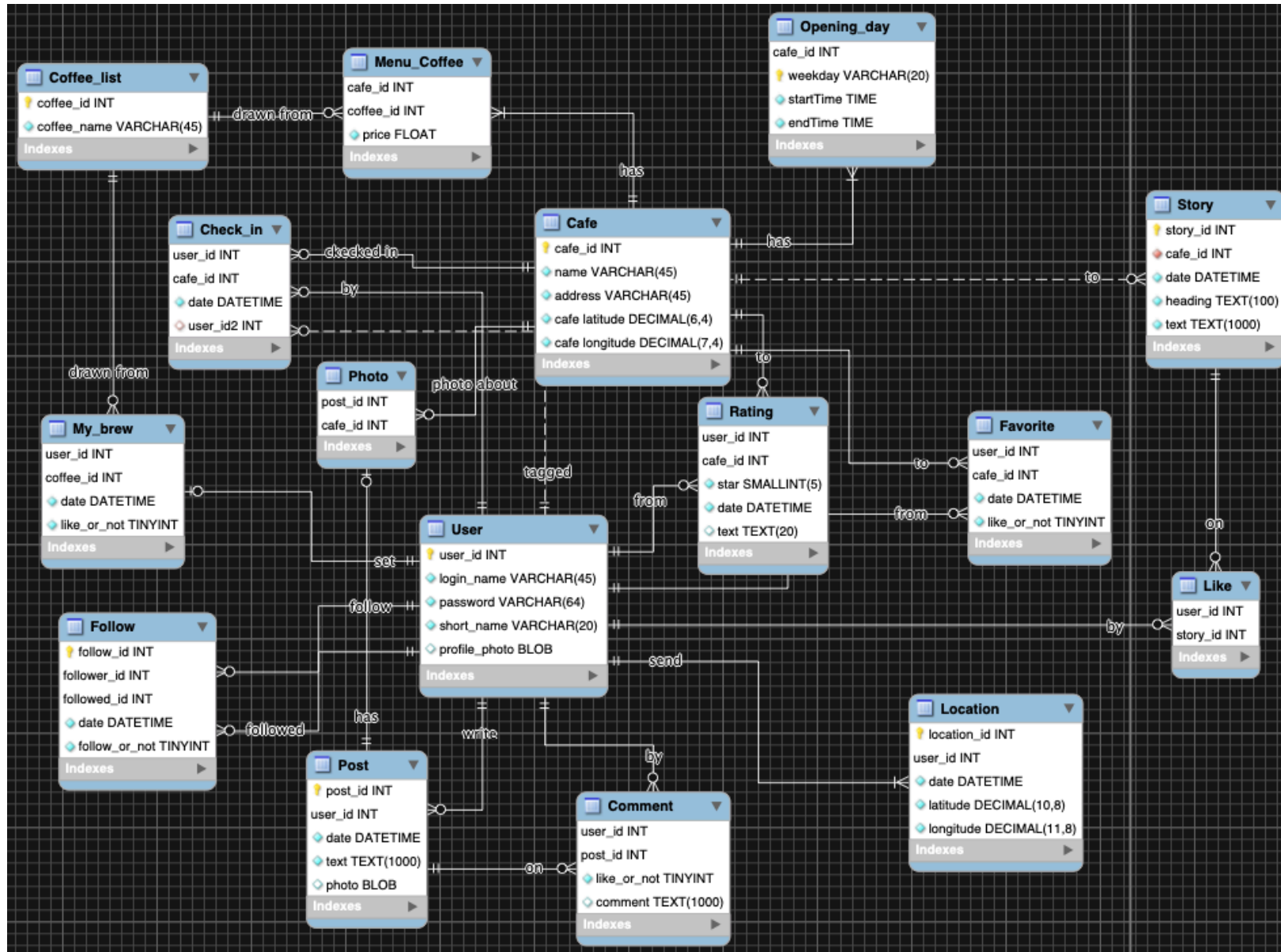


Model



Data Dictionary

Entities	Entity Type	Primary Key	#Attributes
Café	independent	café_id	5
Opening_day	dependent	café_id, weekday	4
Menu_coffee	dependent	café_id, coffee_id	3
Coffee_list	independent	coffee_id	2
Story	dependent	story_id	5
Check_in	dependent	user_id, café_id	4
Favorite	dependent	user_id, café_id	4
Rating	dependent	user_id, café_id	5
Photo	dependent	post_id, cafe_id	2
My_brew	dependent	user_id, coffee_id	4
User	independent	user_id	5
Like	dependent	user_id, story_id	2
Follow	dependent	follow_id, follower_id, followed_id	5
Post	dependent	post_id, user_id	5
Comment	dependent	user_id, post_id	4
Location	dependent	location_id, user_id	5

Entity ‘User’

Description

This entity represents the users of this app and stores important information of the users.

Attributes

Key	Attribute	Data Type	Not Null	Unique	Description
PK	user_id	INT	YES	YES	While this primary key is a unique integer to identify every individual users. In addition, we use it as a FK for many other tables.
	login_name	VARCHAR(45)	YES	YES	The name of the user's account. We need this because the system will not show the user_id to our user.
	password	VARCHAR(64)	YES	YES	Shows the date and time the user writes the post.
	short_name	VARCHAR(20)	YES	YES	This is a short string. It is the name of our user which other users will see.
	profile_photo	BLOB	NO	NO	This is a profile photo uploaded by our user and it is optional.

Entity ‘Cafe’

Description

This entity has a record for all of the café stores. It is one of the most vital entity in this project, to allow every user to browse what they offer, opening information and rate by others , as well as generate news about cafes.

Attributes

Key	Attribute	Data Type	Not Null	Unique	Description
PK	cafe_id	INT	Yes	Yes	This is the primary key of Cafe, automatically generated, unique in the life time of this database, every café in the table has its only one ID.
	name	VARCHAR(45)	Yes	No	As the subject requirement, holds the name of café.
	address	VARCHAR(45)	Yes	No	As the subject requirement, holds the address of café.
	cafe_latitude	DECIMAL(10,8)	Yes	No	A column recording latitude of café, measure in decimal to avoid precise error.
	cafe_longitude	DECIMAL(11,8)	Yes	No	A column recording longitude of café, measure in decimal to avoid precise error.

Entity ‘Post’

Description

A user writes a post, which has optional photos related to the café.

Attributes

Key	Attribute	Data Type	Not Null	Unique	Description
PK	post_id	INT	YES	YES	Primary key of the entity ‘Post’. Every time a user writes a post, we give it an id of the post.
PFK	user_id	INT	YES	NO	Primary key of the entity ‘Post’ and foreign key to the entity ‘User’. A user writes a post about a café, also recording the date, text, and an optional photo.
	date	DATETIME	YES	NO	Shows the date and time the user writes the post.
	text	TEXT(1000)	YES	NO	A user should write something in the post up to 1000 characters.
	photo	BLOB	NO	NO	A photo is optional, but other users can see the photos of the café if uploaded.

Work Breakdown

The project is separately done by three of us together.

Each of us drew an E-R diagram and discussed about all the entities.