TigreNoble

Kemoy Campbell
Tom Ansill
Kabo Cheung

Problem

- Consumers have problems finding desired books on "Free & For Sale" and "Free & For Sale RIT and Beyond" Facebook pages.
  - outdated posts
  - inconsistent book information
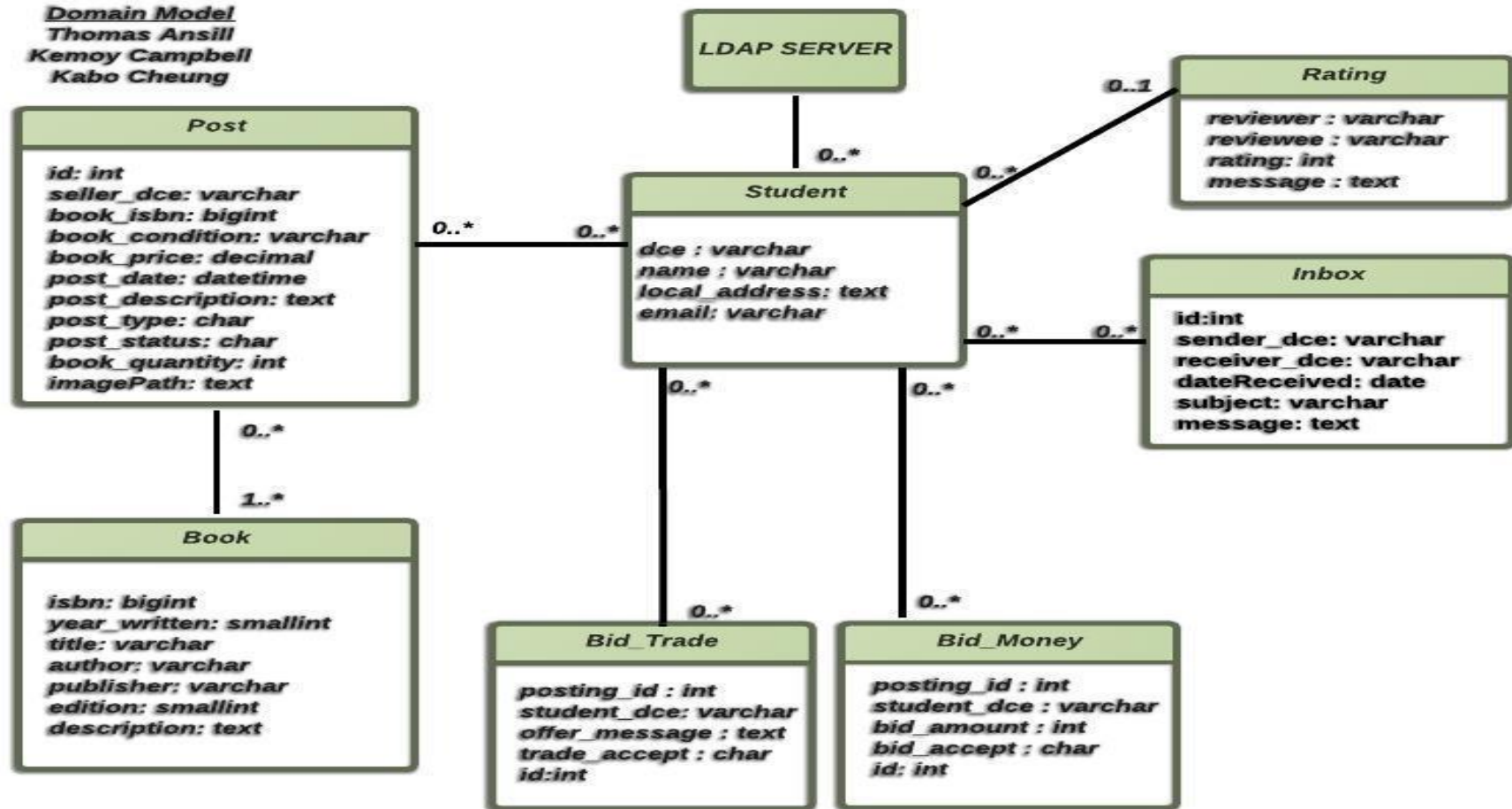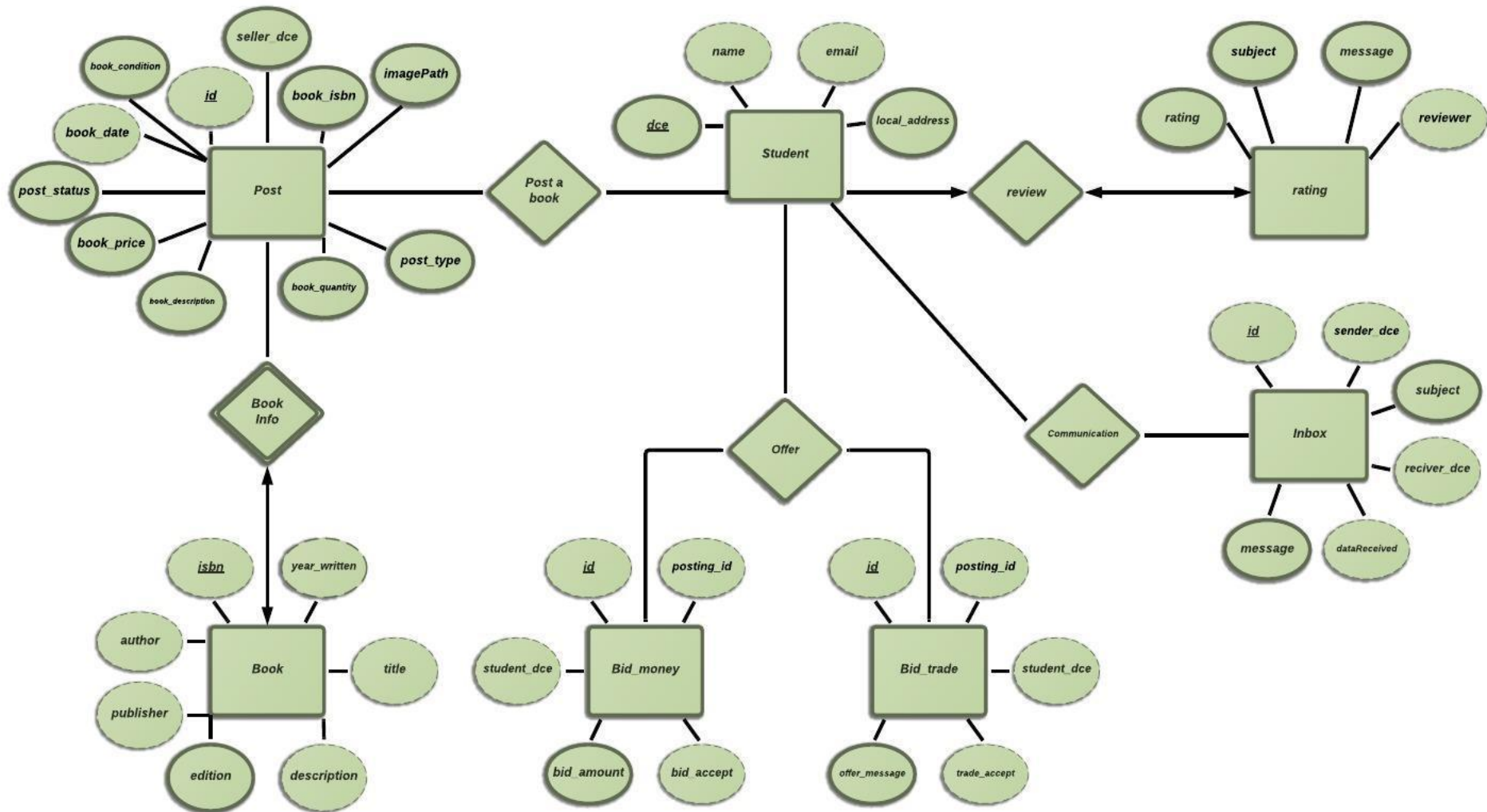 - time-consuming
  - and more

Proposal

- Design a convenient system where RIT students can buy and sell books
  - Once supplying the book ISBN, the website will fill the rest of book information in.
  - Better search option
  - History Tracking
  - Automatic inventory updates and clean up
  - Inbox messaging option
  - Bidding system

System/Application

- PHP
- MySQL
- Apache
- Google Books API
- RIT LDAP server, dce validation
- Bootstrap

Domain Model
Thomas Ansill
Kemoy Campbell
Kabo Cheung

LDAP SERVER

Rating
reviewer : varchar
reviewee : varchar
rating: int
message : text

0..1

Post

id: int
seller_dce: varchar
book_isbn: bigint
book_condition: varchar
book_price: decimal
post_date: datetime
post_description: text
post_type: char
post_status: char
book_quantity: int
imagePath: text

0..*

Student

dce : varchar
name : varchar
local_address: text
email: varchar

0..*   0..*   0..*

0..*

Inbox

id:int
sender_dce: varchar
receiver_dce: varchar
dateReceived: date
subject: varchar
message: text

0..*   0..*

0..*   0..*

0..*

Book

isbn: bigint
year_written: smallint
title: varchar
author: varchar
publisher: varchar
edition: smallint
description: text

1..*

Bid_Trade

posting_id : int
student_dce: varchar
offer_message : text
trade_accept : char
id:int

0..*

Bid_Money

posting_id : int
student_dce : varchar
bid_amount : int
bid_accept : char
id: int

0..*

Challenges & Future Issues

- Had to learn to use Stored Procedures and Triggers for the first time
- Google API may not cover all books in existence.
- There were challenges in establishing a connection to RIT's LDAP server
- Difficulty in transitioning from Books-only to any items inventory management.

Future Implementations

- Security Improvements
- UI/UX
- Complete Inbox and Ratings System
- Database and Stored Procedure optimizations
- Expansion from books to any items?
- Enhance tables information
- Notification System

DEMO TIME!!!!