

ONLINE WINNIPEG BOOKS STORE PROPOSAL

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About Winnipeg Books Store

Winnipeg Books Store is a store which is selling book based on other online platforms such as Facebook, WeChat to advertise books to customers. The store is owned and operated by Mr. Geske, Kyle's family.

Customers can find new books or best seller books on their fan page on Facebook. Customers can send messages via Facebook, WeChat to order books. Then, Winnipeg Books Store will discuss, create order and confirm with the customers. After the customers pay off the orders by transferring money, Winnipeg Books Store will ship the Books packages to the customers courier services. Moreover, Customers can buy directly books at the store in Polo Park.

Winnipeg Books Store was found in 2017.

Contact Information:

Winnipeg Books Store

Address: Unit 130, Polo Park, Winnipeg Manitoba, Postal Code R3B 1T8.

Winnipeg Books Store Staff

The staff has 3 people. Staff's responsibilities as below

Logistics: 1

Sale and Accounting: 1

Online Content management: 1

Existing Problem

Winnipeg Books Store are getting difficulties in books and customers management. It could not show up all books in their store on the fan page. Besides, it has trouble to keep tracking history of price for books, customer information as well as order information.

Especially, Winnipeg Books Store want to boost the online sale effectively. The public online platforms could not help to achieve the sale target for this year and next two years.

Solution

Winnipeg Books Store want to build an online site to grow the business. The Online Winnipeg Books Store should have features and meet requirements in the requirements document as [following link](#)

Cost

The total cost of the Online Winnipeg Books Store is \$10,000, including deployment, training and maintenance of one-year services.

Timeline

The website will be completed and delivered in 4 weeks since the contract signed.

Database and ERD Diagram

Tables

Books (book_id: integer, ISBN: string, price: float, title: string, description: text, publisher: string, publishdate: string, numberofpages: integer, bookurl: text, cover_s: text, cover_m: text, cover_l: text, cate_id: integer)

Books table stores all books of Winnipeg Books Store and current price for each book.

Authors (author_id: integer, authorkey: string, name: string, personalname: string, bio: text, cover_s: text, cover_m: text, cover_l: text)

Authors table stores all authors.

BookAuthors (book_id: integer, author_id: integer, ISBN: string, authorkey: string)

BookAuthors table stores associations between books and authors.

Categories (cate_id: integer, name: string, description: text)

Categories table stores all categories of Winnipeg Books store

Customers (customer_id: integer, email: string, password: string, type: int, name: string, street_address: string, state: string, postalcode: string, latitude: string, longitude: string)

Customers table store all customers who have ordered books. Customers no need to sign up. Email is required in all transactions.

BookItems (book_id: integer, customer_id: integer, price: float, quantity: integer, order_id: integer)

BookItems table stores books of customers and price of books at time ordered.

Orders (order_id: integer, pst: float, gst: float, order_date: datetime)

Orders table stores orders with PST, GST rate at time the order created.

Provinces (province_id: integer, name: string, pst: float, gst: float)

Provinces table stores provinces with current PST and current GST.

Users (user_id: integer, email: string, password: string, name: string, type: integer)

Users table stores all users who have administrative permissions to operate the Winnipeg Books Store site.

Type: admin, content manager

BookChanges (book_id: integer, user_id: integer, type: integer, created: datetime)

BookChanges tracks type of changes on books table. Who made changes?

AuthorChanges (author_id: integer, user_id: integer, type: integer, created: datetime)

AuthorChanges tracks type of changes on authors table. Who made changes.

CustomerChanges (customer_id: integer, user_id: integer, type: integer, created: datetime)

CustomerChanges tracks type of changes on customers table. Who made changes.

CategoryChanges (cate_id: integer, user_id: integer, type: integer, created: datetime)

CategoryChanges tracks type of changes on category table. Who made changes?

Associations

One book is written by many authors. An author writes many books

One customer can order many books, a book can be ordered by many customers

One category has many books, a book must belong to a category.

A user can make changes any information in Books, Customers, Authors, Categories. One of any information in Books, Customers, Authors, Categories can be changed by many users.

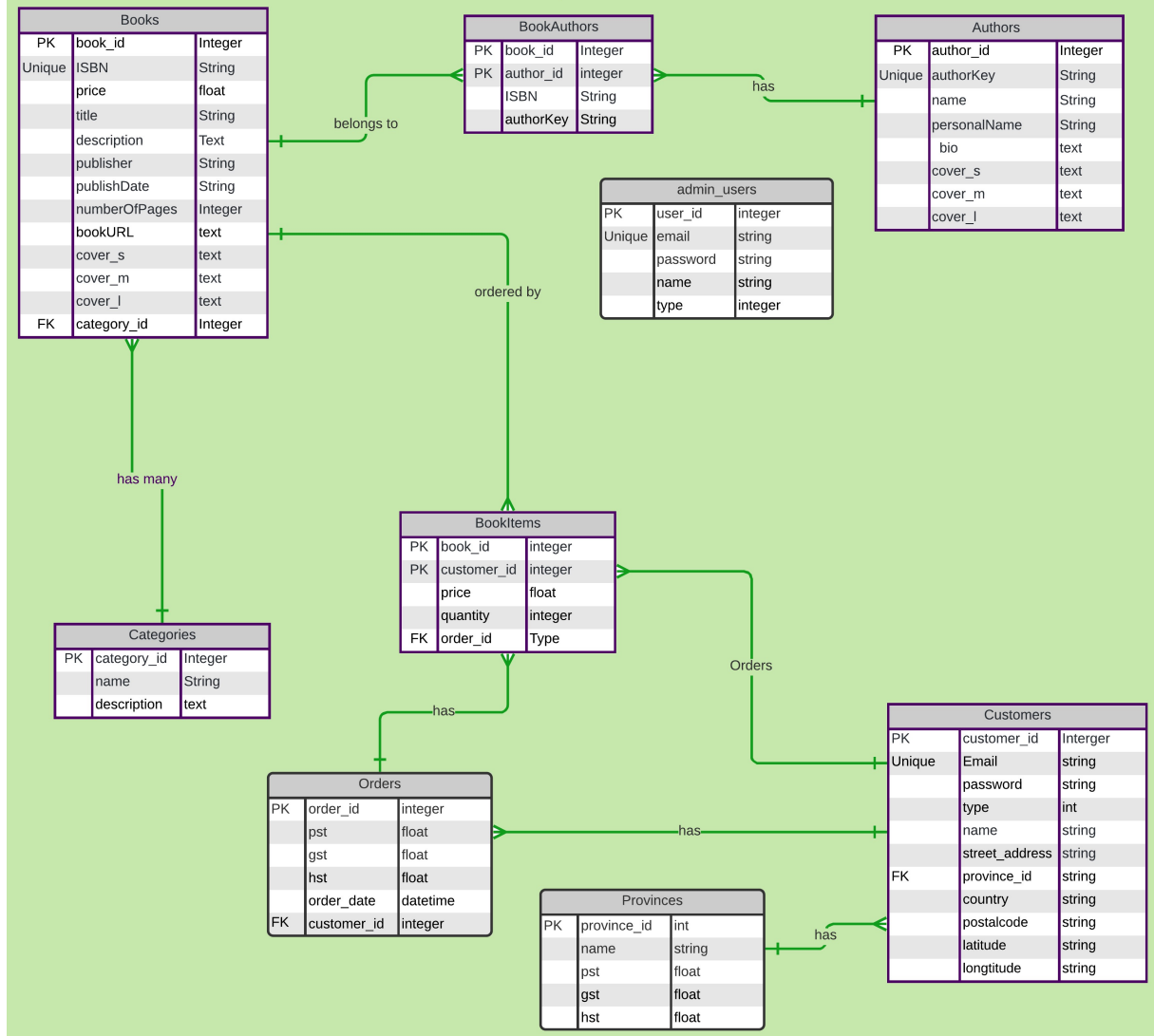
One order has many Book Items, each book item must belong to an order.

One province has many customers, each customer must belong to a province.

ERD Diagram

Ecommerce Rails ERD Diagram

Truong Giang Huynh - Tony | November 17, 2020



Requirements For The Site

https://docs.google.com/document/d/1qCuli_yFgSrPZMnB5FiZfZOqU_lcKPUcuf4CVleDau4/edit