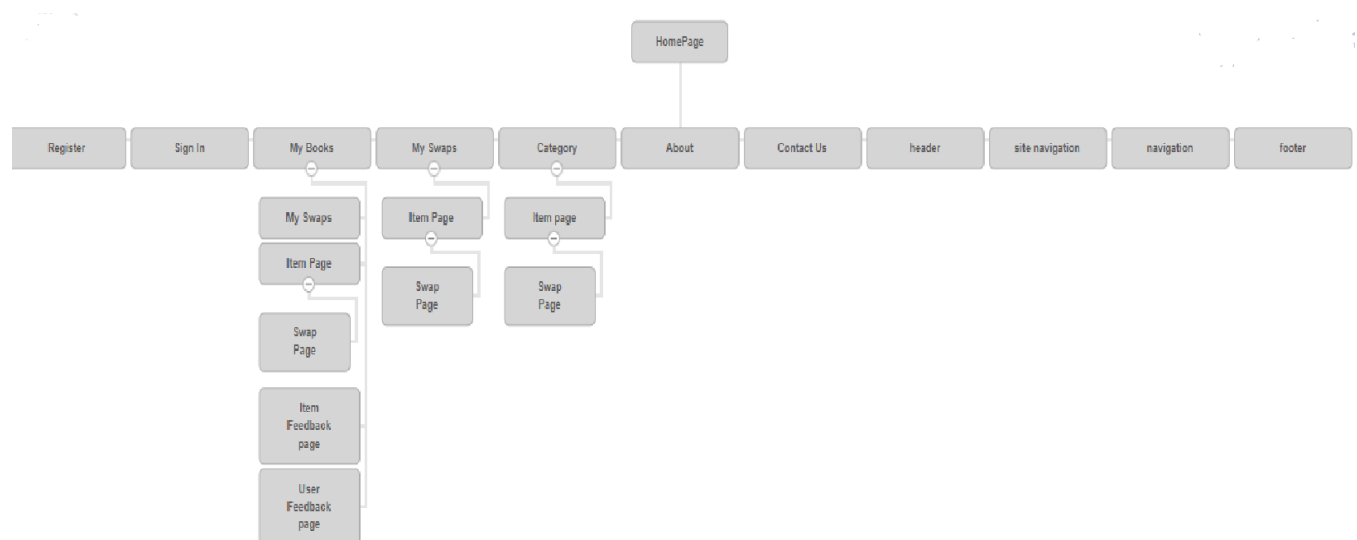


# Requirements and Design Document

## 1. Project description:

This project mainly targets book reading enthusiasts. valuable books are always treated well, regardless of its condition- whether it is new or used. And Book swapping tool can save lot of money for Book reading enthusiasts. Where a user once done reading a book, he/she has an option to replace the book with the other un-familiar book. So as a result book reading enthusiasts can expand their knowledge base free of cost for ever with one time investment. A user can choose to swap for books from varieties of categories like technology, science fiction. Before opting for a book, user can access reviews for the book, given by the other users. Each book is presented with a brief information for the book is displayed along with the rating. It is obvious that each Book swap has to be made with stranger, The application allows user to see the reviews for particular user. By accessing user reviews, user can always decide whether to trust a stranger. Hence this application is more transparent with reviews and user can decide whom to trust and which book to choose. To start using this application, users has to register with the system. Where a new user has to provide basic information like contact number, email id etc. books catalog would be accessible to both registered and un registered users. But to make a swap offer or to receive a swap offer, one has to get registered with the system. For user trying to swap a book, first step he/she need to do is to upload book details to the system. Details include book title, brief description of the book, genres and relevant images. To avoid biased reviews, application allows users to rate a book, only after Book Swap is done.

## 2. Site Map:



### **3. Page Design:**

#### **Category Page:**

- This page displays different categories of items that are available in the system.
- Category Page gives User an option to select particular category he/she is interested in, as a result only items that fall under particular category are displayed.
- This page can be accessed by both general users and registered users. In case of registered users only items that are not part of users list are displayed where as in case of general users all items are displayed.
- Each item displayed on the Category page holds hyperlink. Clicking on the hyper link would take user to individual item page, where description for the item is visible to the user.

#### **Home Page:**

- Home page is the first page that gets loaded when user hits the application URL.
- This page displays welcome message.
- Home page contains underlying pages header, footer, navigation, site-navigation pages
- In fact all the pages in the application contains pages header, footer, navigation, site-navigation pages to maintain same look and feel across the application.
- This page is accessible to both general and registered users.

#### **About page:**

- This page displays the product version.
- This page is accessible to both general and registered users.

#### **Contact Us page:**

- This page displays the contact details of the site maintenance team.
- This page is accessible to both general and registered users.

#### **Sign In Page:**

- This page allows user to sign in to the application.
- This page has two text fields, username and password and sign in button.
- This page is accessible to both general and registered users.

#### **Register Page:**

- This page is accessible to both general and registered users.
- This allows users to register with the application.
- Registration page has many fields, username, password, email, first name, last name, zip code, phone number, city, state,

Country. Along with these text fields register button is present.

#### **My Books page:**

- This page displays items of the registered users and allows registered users to manage their items.
- This page would be empty for the general users.
- Each item displayed on this page has hyper link, clicking on the link would navigate to that particular item description.
- Against each item swap status for the item is displayed.
- Against each item, two button are displayed, these two buttons can either 'itemfeedback' and 'userfeedback' or 'update' and 'delete'. depending on the swap status of the item whether item is swapped or not.
- When 'itemfeedback' button is clicked, itemFeedback page is displayed.
- When 'userFeedback' button is clicked, userFeedback page is displayed.
- When 'update' button is clicked, myswaps page is displayed, if the swapstatus of the item is pending other wise item page is displayed.
- When delete button is selected. `item gets removed from the users list.

#### **My Swaps Page:**

- This page displays pending swap offers, This page displays both offers, offers made by the user and offers made to the user.
- For the offers made by the user, with draw button is displayed against the offer, clicking this button removes that particular offer.
- For the offers made to the user, accept and reject buttons are displayed , by clicking accept Button, user accepts particular offer made to the user. by clicking reject button user rejects the offer made to the user.
- for general users, empty my swaps page is displayed.

#### **Item Page:**

- Item page displays the title, headline, brief description, item image for particular item in question.
- This place displays average rating for the particular item.
- Item page also displays 'see the offer' button. When this button is pressed swaps page is displayed if the user can swap his/her item with the item in question. If user cannot swap with his item, a validation error message is displayed.
- This page also displays the swap status of the current item.
- This page is accessible to both general user and Registered user. In case of general user, validation error message is displayed straight away when 'see the offer button' is clicked

#### **Swap Page:**

- Item page displays the title, headline, brief description, item image for particular item in question.
- This page displays the user's list of available books for swap and allows users to choose one from list of available books.
- This page also displays 'confirm swap' button, user has to select one book from the list of available books. when user clicks 'confirm swap' button, offer request goes to particular user, with whom current user wants to make book swap.
- This page is only accessible to registered users.

#### **Item Feedback page:**

- This page is accessible only for registered users.
- This page displays five options to the users, the options are 'Out Standing', 'Excellent', 'Satisfactory', 'below average', 'Not Satisfied'.
- This Page also displays the name of the book at the top of the page.
- user has to choose one of the five options and press submit, as a result, item feedback gets submitted for particular book.

#### **User Feedback page:**

- This page is accessible only for registered users.
- This page displays five options to the users, the options are 'Out Standing', 'Excellent', 'Satisfactory', 'below average', 'Not Satisfied'.
- This Page also displays the name of the User(to whom rating is being made) at the top of the page.
- current user has to choose one of the five options and press submit, as a result, user feedback gets submitted for particular user.

#### **Site navigation:**

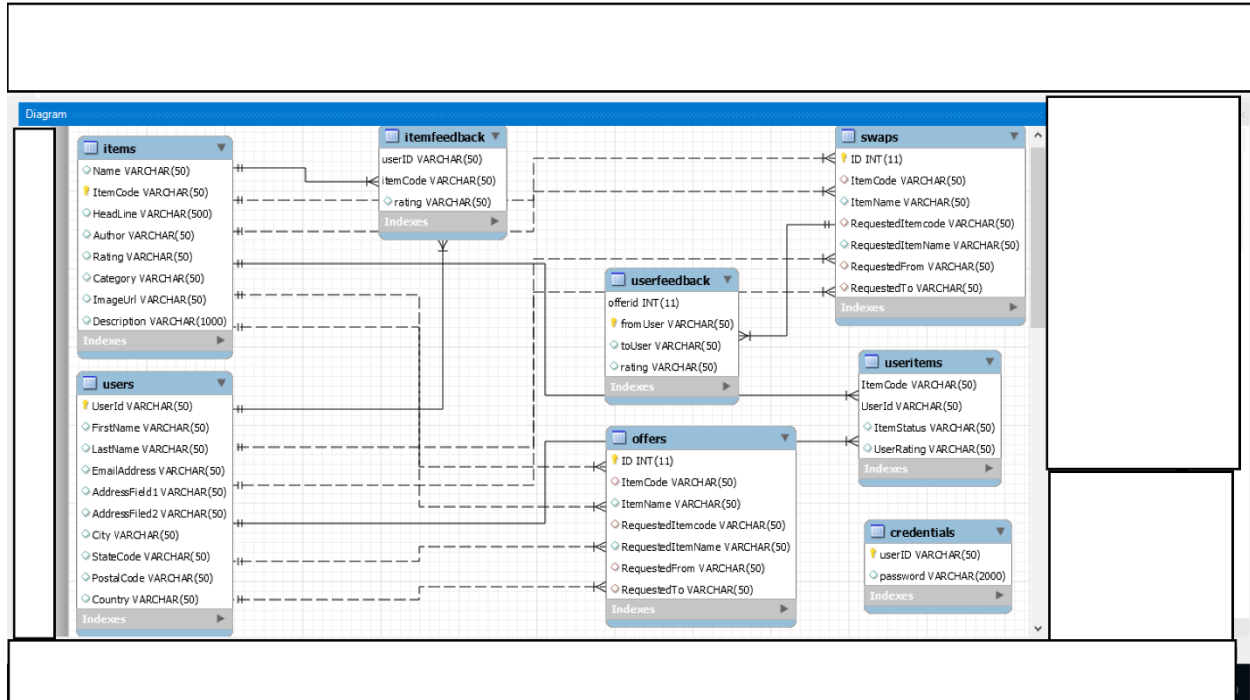
- This page has 'sign in' link. When user clicks on 'Sign In' hyper link, a sign in page is displayed.
- This page had My Books link, On clicking this link my Books page is displayed.
- This page has 'My Swaps' link, On clicking this link my swaps page is displayed.
- This page has 'Register' link. On clicking this link registration page is displayed.
- 'Cart' link is not implemented.

#### **Navigation:**

- This page has 'Category' link, when user clicks on this link, category page is displayed to the user.
- This page has 'About' link. On clicking this link, about page is displayed.
- This page has 'ContactUs' link, On clicking this link 'ContactUs' page.

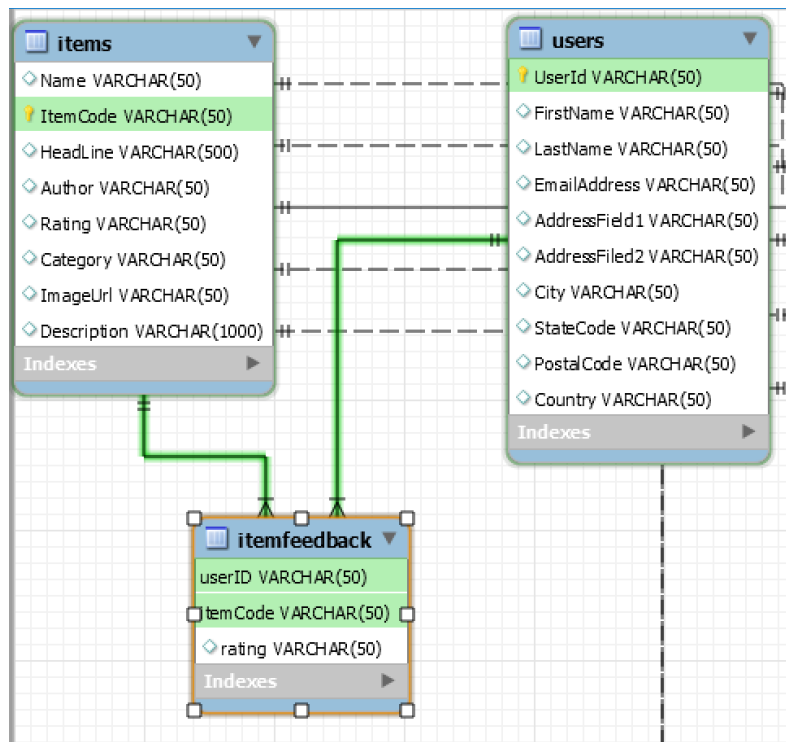
- This page has 'Home' link, On clicking this link 'Home' page.
- 'Store' link is not implemented.

#### 4.ER diagram:

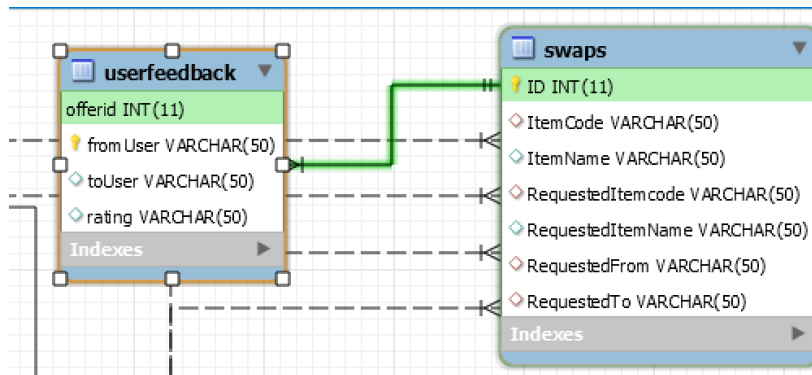


I have highlight ER relation for each pair of tables (in green color), please find below.

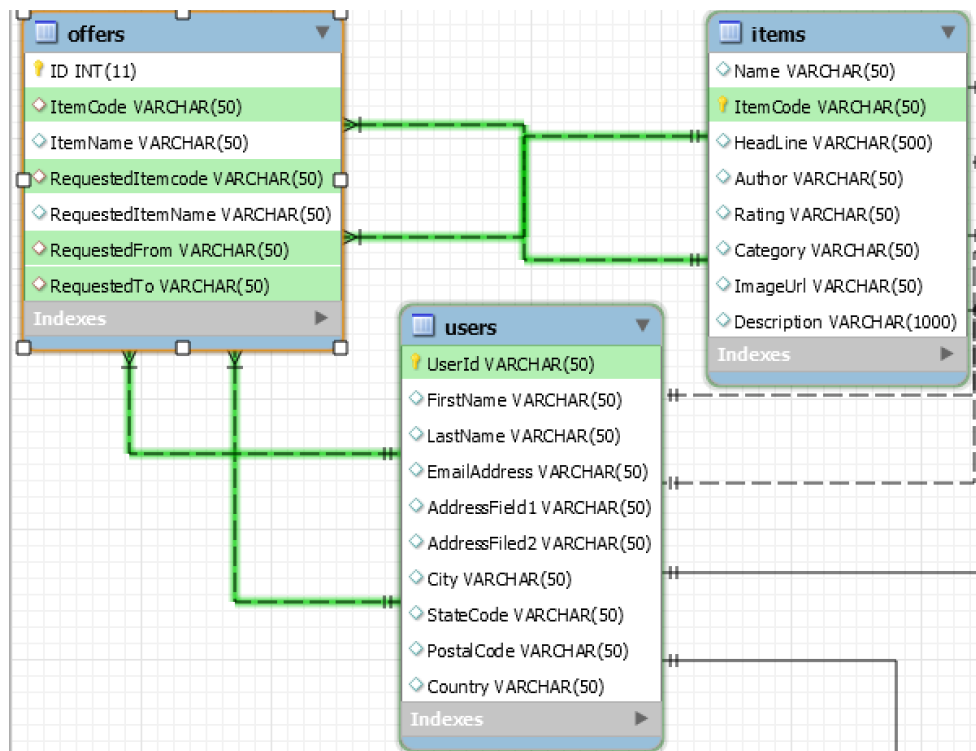
#### 1. ER relation of 'itemfeedback' table with 'items' table and 'users' table: (please find below)



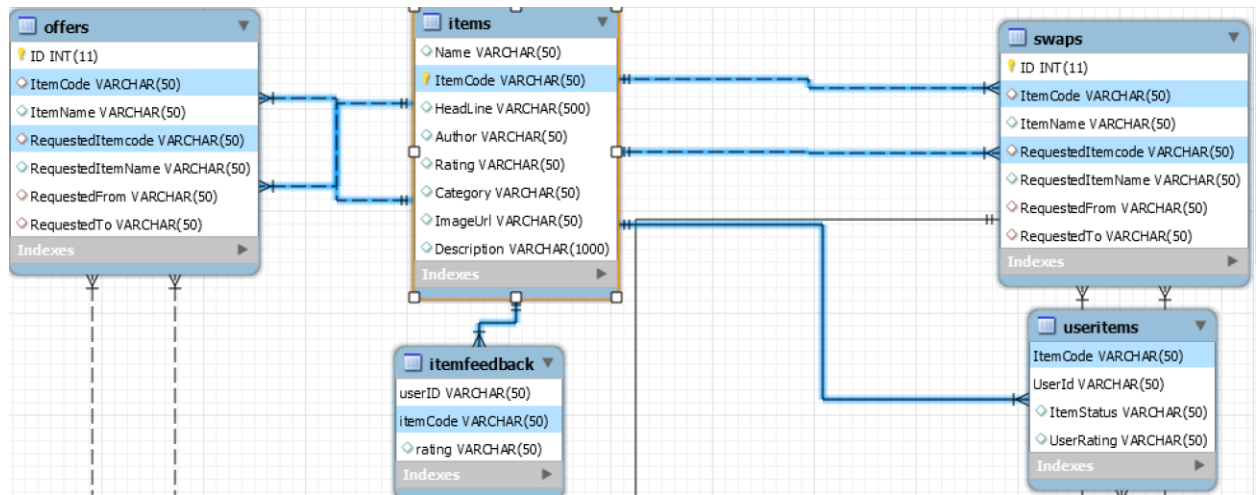
## 2. ER relation of 'userfeedback' table with swaps table: (highlighted in green)



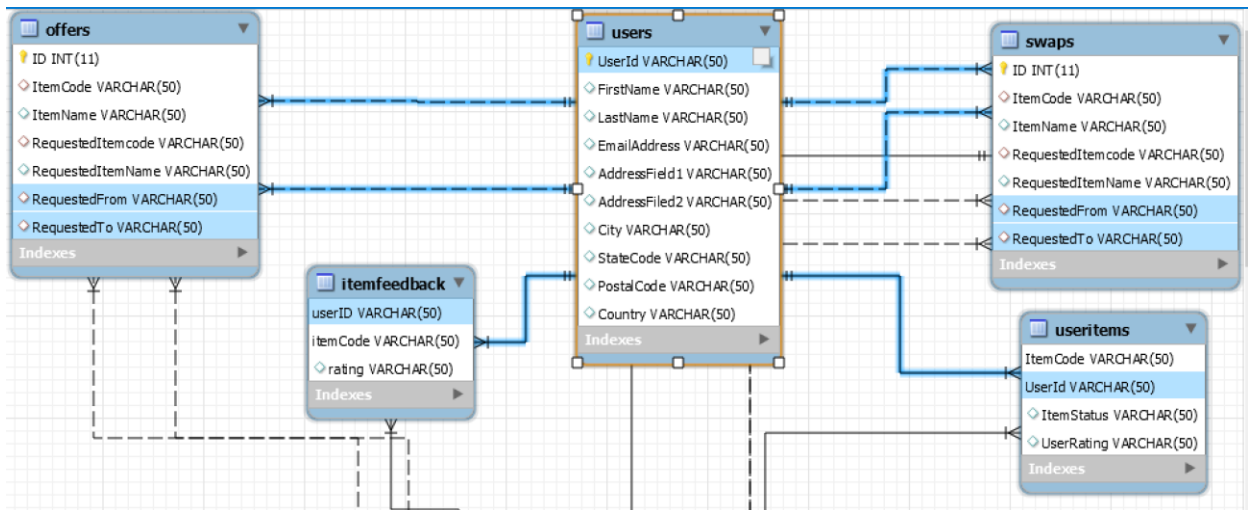
## 3. ER Relation of 'offers' table with items and users table:



#### 4. ER Relation of 'items' table with other tables: (highlighted in blue)



5. ER Relation of 'users' table with other tables: (highlighted in blue)



6. ER relation of useritems with other tables: (highlighted in green)

