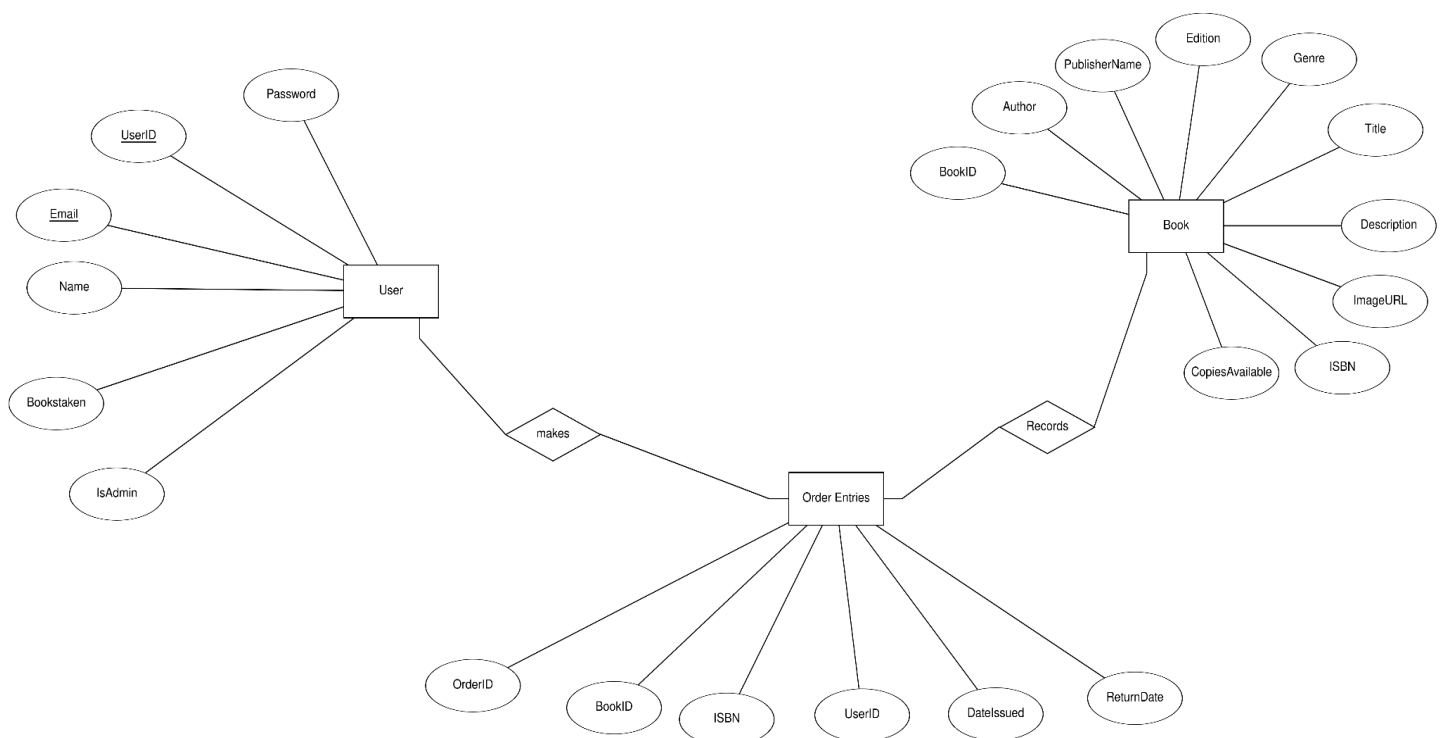


## Assignment 2

- Intended functionality of the web application from a user perspective

Our project is a Library Management System (LMS), which is made up of a database that manages all physical books in a library. There are two possible types of accounts that can access the website: an admin account or a user account. Each of these accounts have different functionalities and different user interfaces (UI). An admin can add new books to the database, confirm that an issued/borrowed book has been returned by a user, and see which books have been borrowed by what user and on what date etc. On the other hand, a user can browse all library books and has the ability to search for them by name, genre or author. Then, once a user finds their intended book, they can click on it and find out how many copies of this book are available in the library, and if the book is already borrowed to another user or not. At this point, the user has two options. Firstly, if all copies of the book are already borrowed, the user can see when the book is estimated to be returned to the library, and they can add this book to their wishlist. From the wishlist, they can periodically check to see if the book is now available to borrow or not. Or secondly, if the book is not borrowed by anyone, they can directly make a booking for borrowing the book for a set amount of time. This way, they can safely come to the library that same day or in the next few days, and the library admin will check and confirm if the user made a booking, and then give them their book.

- Establish the ER diagram of your miniworld:



- Describe in general terms the ways the user interacts with the system (make a list). What does the user see, what actions can s/he take, what are their results, what about illegal input/actions.

In our Library Management System, a user would be able to:

- Make an account, providing their first name, last name, university email address and password
- Search the database based on genre, author or a specific book title
- Select a book and read more details about it (title, authors, publisher, publisher's year, edition, genre)
- See availability of a selected book
- Rent books for a certain period of time
- Add their favourite books to the wishlist
- See a list of their currently borrowed books

The library staff (with their admin account) would be able to:

- Add new books to the library
- Confirm in the system that an already borrowed book has been returned to the library and on what date (so it can be made available to other borrowers)

Illegal actions:

- User cannot modify book details
- User cannot add books on her/his own, the admin has to do that
- Users cannot borrow more than 3 books at the same time
- Library staff account cannot borrow a book