# **Library Management System**

# **Functional Requirements**

### • Admin/Librarian

- o Can add and remove new members.
- Can add and manage books.
- o Can view & report all borrowed books.

#### Users

- o Can search for books based on title, publication date, author, etc.
- Can borrow or reserve a book.

## • The System

- Notify the user & admin about the overdue books and create a report about it.
- o Calculates the fine for overdue books on their return.

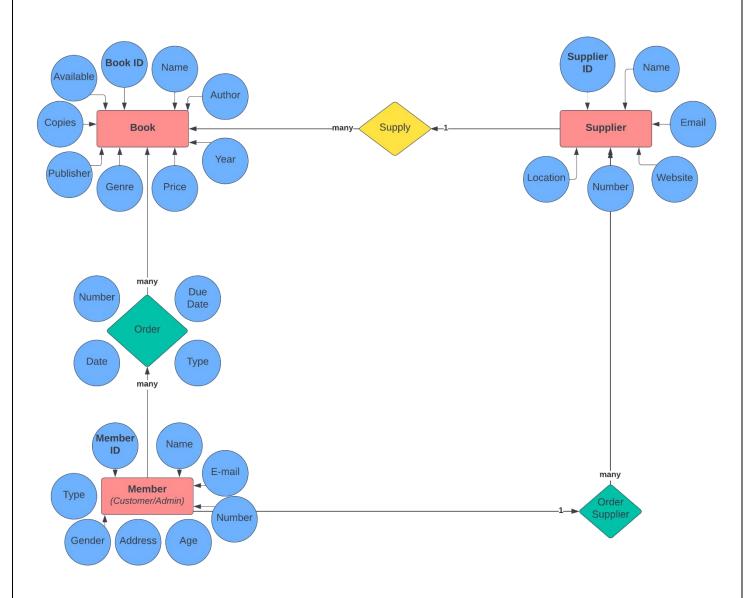
# **Non-Functional Requirements**

- **Usability** ensure that the system provides an interactive user-friendly interface that is easily understandable for all users.
- **Security** ensure that only authorized users can access the system.
- **Performance** ensure that the system can handle a large number of users and transactions.
- **Availability:** The system should be available 24/7 without issues.
- **Speed:** The system should have a response time of less than 0.5 seconds for most transactions.
- **Maintainability**: The system should be easy to maintain and update. The system should update the booking information in real-time.

# **Software requirements**

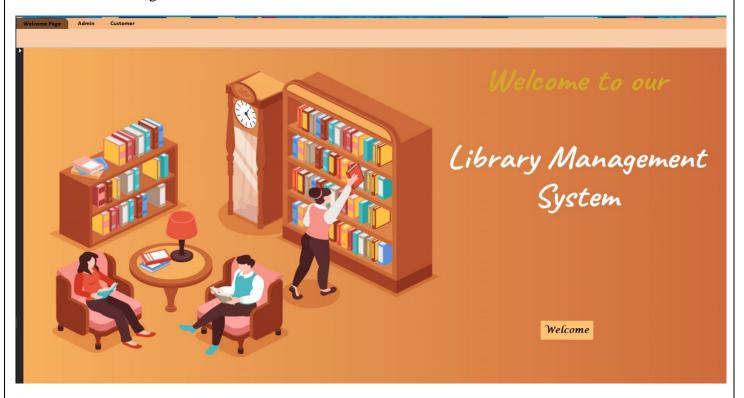
- **OS** The system can run on Windows/Linux/Mac OS.
- **DB** A database management system such as Access to store the data of new members & books.

# **ERD**

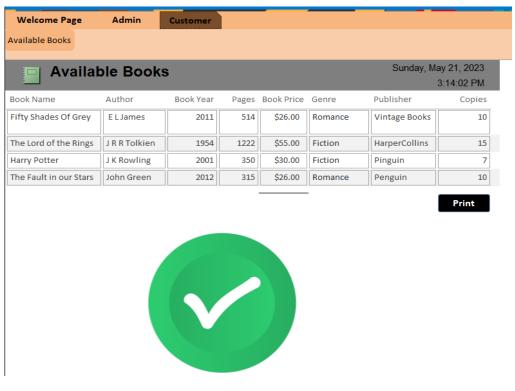


# **System Screenshots**

# Welcome Page

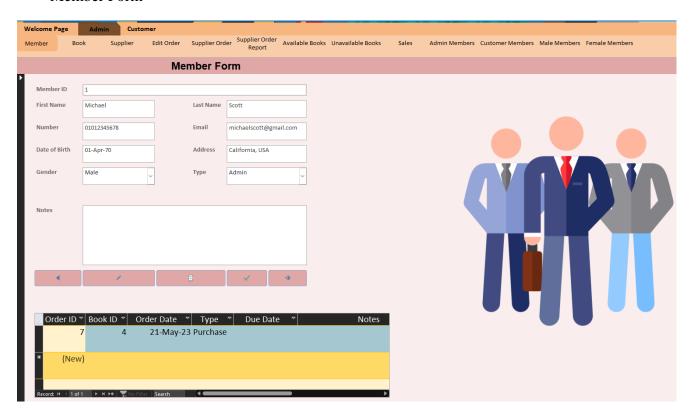


## Customer Page

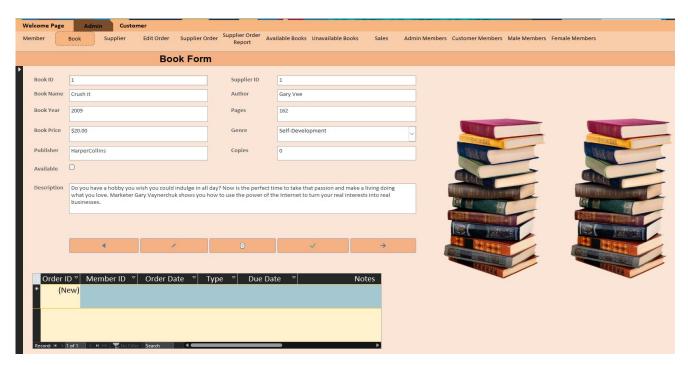


# **Admin Page**

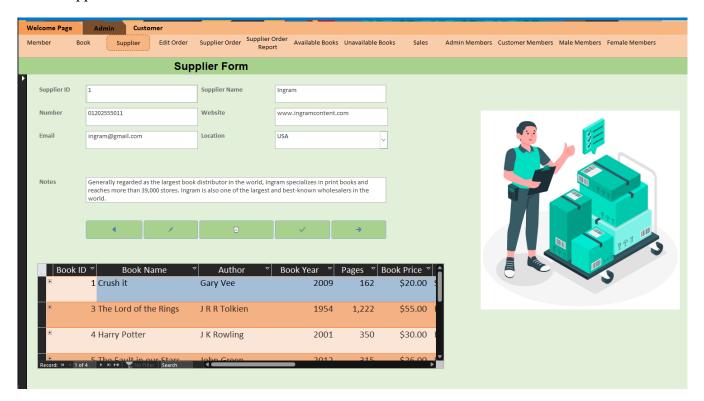
## Member Form



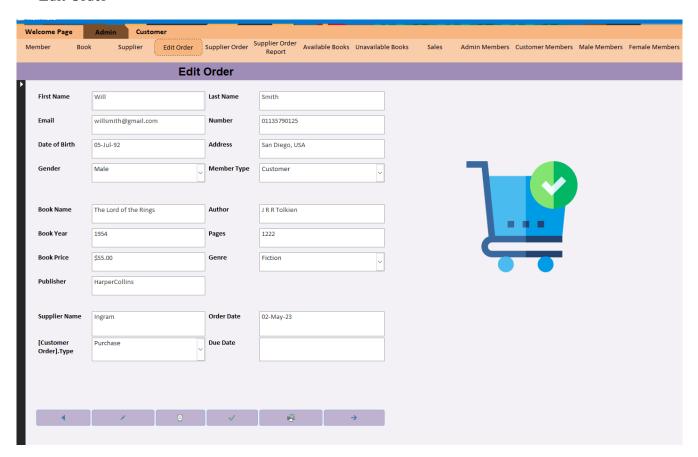
#### **Book Form**



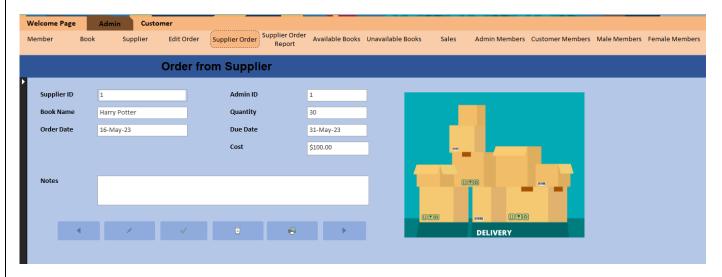
## Supplier



## Edit Order

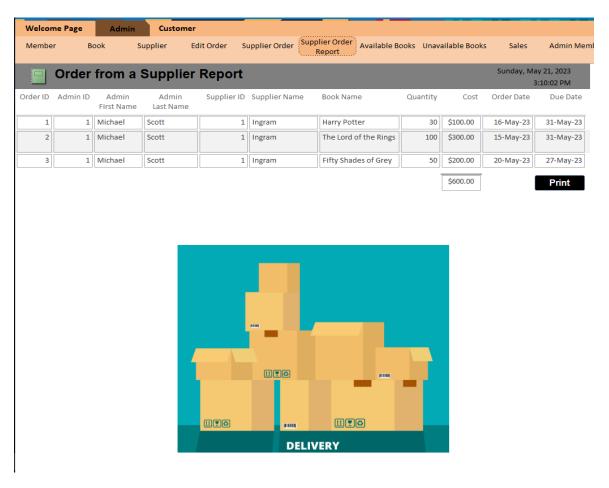


# Supplier Order

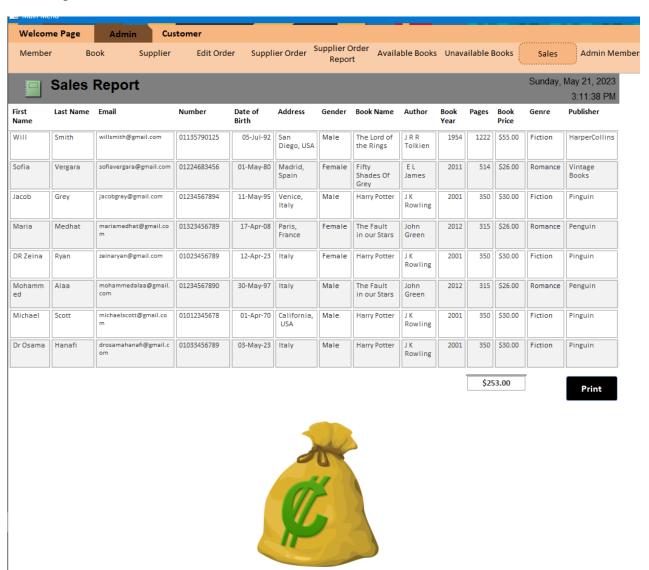


# **Reports**

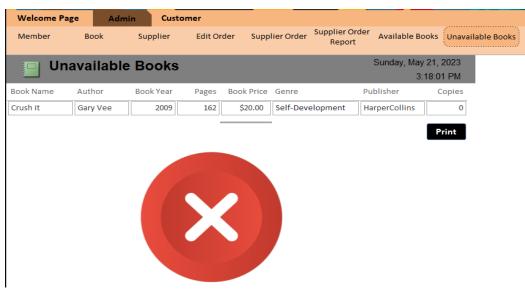
# Supplier Order Report



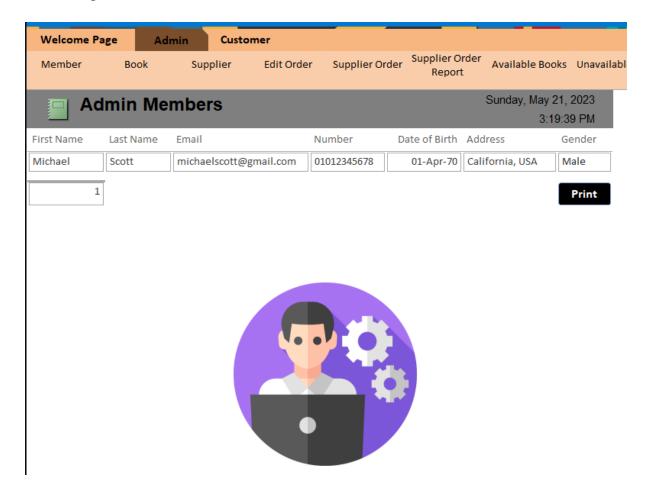
## Sales Report



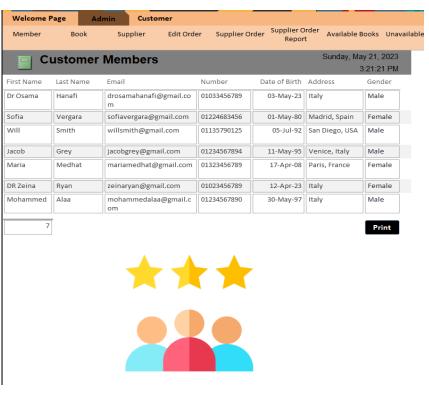
### Unavailable Books



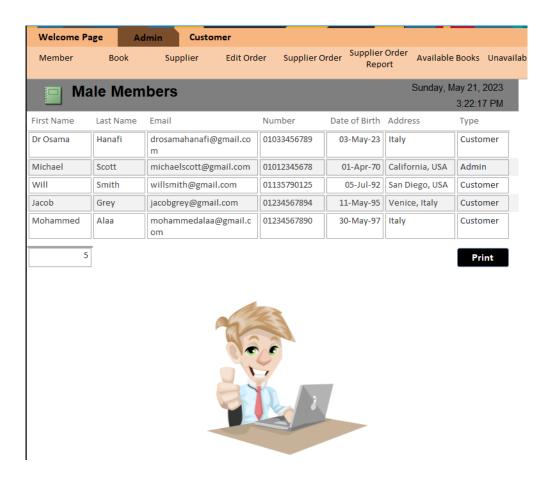
## Admin Report



#### **Customer Report**



## Male Members Report



## Female Members Report



