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**Lab Assignment #2 - Library**

**Use Cases**:

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|  | **Use Cases** |
| 1 | Sign in |
| 2 | Search for materials |
| 3 | Checkout materials |
| 4 | Return materials |
| 5 | Lookup materials’ return date |
| 6 | Add materials |
| 7 | Manage user’s account |
| 8 | Pay for overdue charge |
| 9 | Check quantity of the materials |
| 10 | Reserve materials |
| 11 | Checkout history |
| 12 | Sign out |
| 13 | Change address |

**CRC**:

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| --- | --- |
| **Class** - User | |
| **Responsibility**:  Sign in  Sign out  Manage profile  Check late fee  Pay late fee  Checkout  Return  Check return date  Change address  Search materials  Make reservation on materials  Lookup checkout history | **Collaborator**:  System  System  System  Librarian, system  Librarian, system  Librarian, system  Librarian, system  Librarian, system  System  System  System  System |

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| **Class** - System | |
| **Responsibility**:  Storing user information  Email  Lookup quantity | **Collaborator**:  User  User, Librarian  Material |

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| **Class** - Material | |
| **Responsibility**:  Define material type  Define owner  Define lending date  Define return date  Define title | **Collaborator**:  User |

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| **Class** - Librarian | |
| **Responsibility**:  Manage materials  Manage users’ account  Inform user if they have overdue material  New book recommendation  Add materials  Remove materials  Lookup checkout history | **Collaborator**:  Material  User, system  User  User  System  System  System |