**Case Study – 9  
(25 points)**

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**Submission**: Save this Word document with your answers as a PDF file and upload the PDF file to Canvas.

(5 pts) List all the entities for the Book Exchange Project.

**Entities for Book Exchange Project:**

**-Moderators/Administrators**

**-Members**

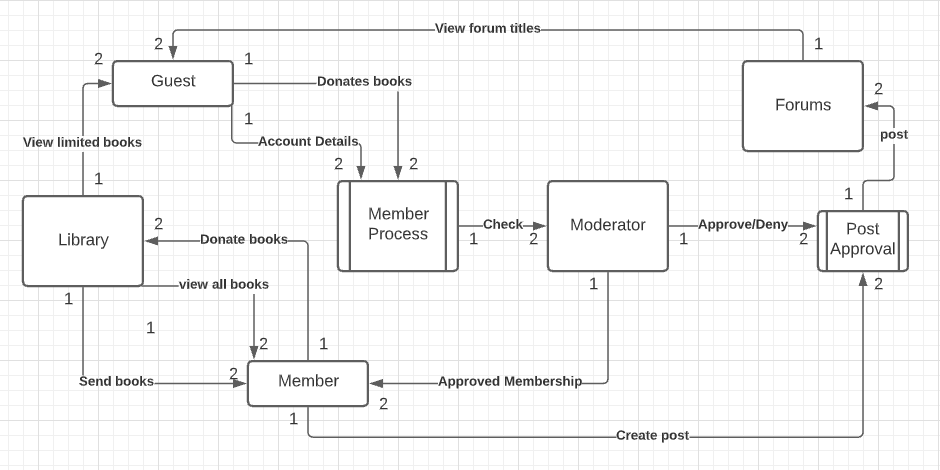
**-Guests/Visitors**

**-Books**

**-Library**

**-Forums**

(10 pts) Create an ERD for the Book Exchange Project with cardinality like that shown in Fig 9.19

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(10 pts) Design 3NF tables for the Book Exchange Project based on your ERD, make sure the Primary Keys and Foreign Keys are identified. You can use a graphical notation or standard format to express your design.

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| --- | --- | --- | --- |
| **Book Number** | Book Name | Genre | Availability |
| 1 | Willy Wonka | Fantasy | Yes |
| 2 | Snowden | Nonfiction | Yes |
| 3 | Lord of the Rings | Fantasy/Adventure | No |

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| --- | --- | --- |
| **Moderator Number** | Moderator Username | Moderation Area |
| 1 | BigMod438 | Forums |
| 2 | JimBoy21 | Membership |
| 3 | AdminGuy92 | Donations |

|  |  |  |
| --- | --- | --- |
| **User Number** | Username | Membership Status |
| 23 | EarlyBird | No |
| 456 | JohnCena85 | Yes |
| 645 | ThatOneGuy00 | Yes |

|  |  |  |
| --- | --- | --- |
| **Forum Number** | Forum Topic | Forum Posts |
| 2 | Favorite Books | 534 |
| 3 | Book Reviews | 6453 |
| 5 | Donations | 26 |