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# Data dictionary

User

|  |  |  |
| --- | --- | --- |
|  | Type | Description |
| User ID | Numerical | Unique identifier for each user( giving by the system) |
| Username | Characters | Unique identifier for each user( choosing by the user) |
| Password | Characters, numerical | Number of characters the user choose to lock his/her account (key code that unlock the account) |
| Email | Characters | Email address of the user to send him/her note(confirmation of the account, forgetting password, and any news of the website) |
| Postcode | Numerical | 4 digit code for Australia |

Book

|  |  |  |
| --- | --- | --- |
|  | Type | Description |
| Book ID | Numerical | Unique identifier for each book(giving by the system) |
| Title | Text | The name of the Book |
| Author | Text | The name of the book writer |
| Publisher | Text | The name of the print’s and distribute of the book |
| Publisher date | Characters | The year that the book has been distribute |
| Borrower\_ID | Text | The userID of the book borrowed |
| Lender\_ID | Numerical | The userID of the book lend |

Circle

|  |  |  |
| --- | --- | --- |
|  | Type | Description |
| CircleID | Numerical | Unique identifier for each user( giving by the system) |
| UserID | Numerical | The id of the user who made the circle |
| Circle-description | Text | Who are in the circle and who made it |

Circle\_book

|  |  |  |
| --- | --- | --- |
|  | Type | Description |
| book ID | Numerical | Unique identifier for each user( giving by the system) |
| Circle\_ID | Numerical | Unique identifier for each user( giving by the system |

Circle\_user

|  |  |  |
| --- | --- | --- |
|  | Type | Description |
| Circle ID | Numerical | Unique identifier for each user( giving by the system) |
| Email | Numerical | Email address of the user to send him/her |

# A relational database schema

**Table Name**  **Field**  **Type**  **Description**

Users User Id number Primary key

User Name text (30)

Password text (20)

E-mail text (20)

Postcode text (4)

Book Book Id number primary key

Title text (30)

Author text (30)

Publisher text (30)

Publish Date date

borrower\_id text (20)

lender\_id number

Circle Circle ID number Primary key

User ID number foreign key

Circle\_Discription text (30)

Circle\_book Book\_ID number primary key

Circle\_ID number primary key

Circle\_user Circle\_ID number primary key

E-mail text(20)

ER Diagram

Book

book\_id

title

author

publisher

publish\_date

borrower\_id

lender\_id

Users

user\_id

Username

Password

email

postcode

Circle

Circle\_id

Circle\_name

Circle\_discription

User\_id

Circle\_book

book\_id

Circle\_id

Circle\_user

Circle\_id

email

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