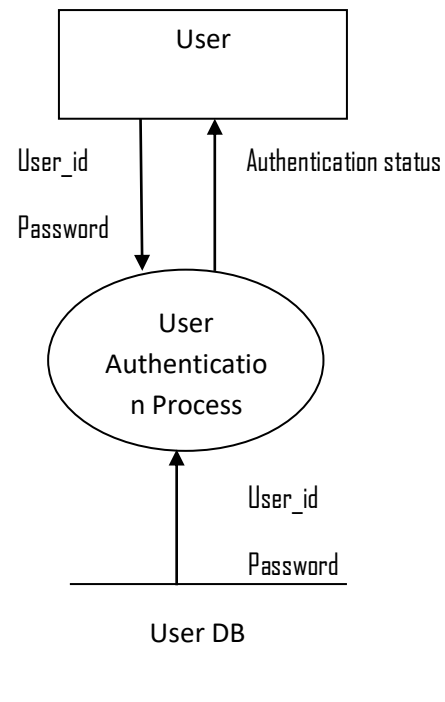EXERCISE-(1)

Draw a context-level DFD to depict the typical user authentication process used by any system. An user gives two inputs -- user name and password.

<u>CONTEXT LEVEL DFD</u>

```
              ┌──────────────────────────────┐
              │            User              │
              └──────────────────────────────┘
                  │                    ▲
   User_id        │                    │   Authentication status
                  ▼                    │
   Password
                       ╭───────────────╮
                       │     User      │
                       │ Authenticatio │
                       │  n Process    │
                       ╰───────────────╯
                               ▲
                               │        User_id
                               │
                  ─────────────┘        Password
                       User DB
```
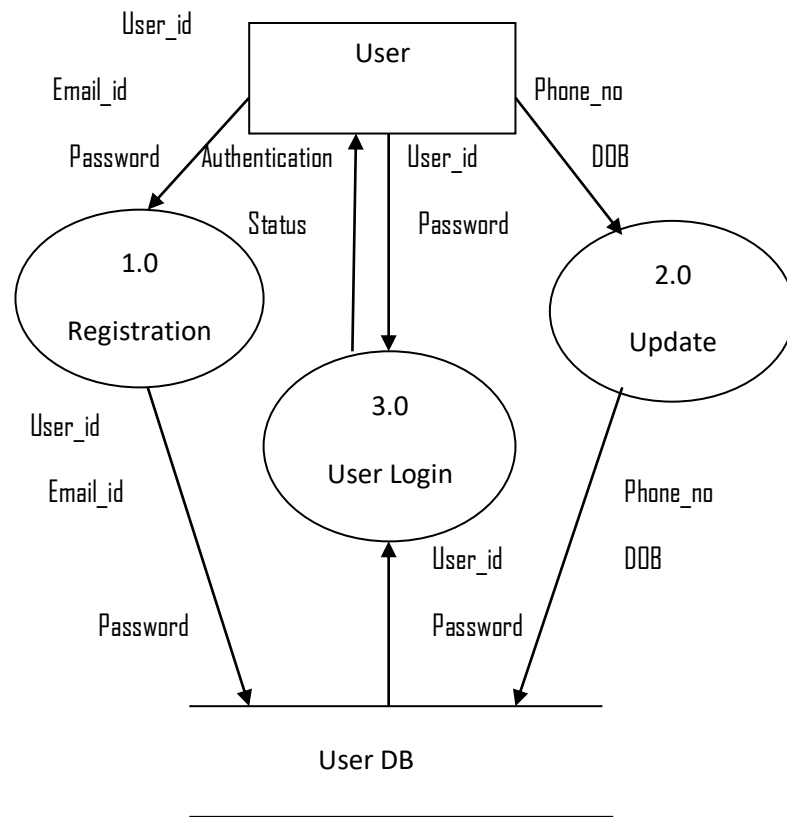
EXERCISE-(2)

DFD for a Social Networking site

The Absolute Beginners Inc. is planning to launch a revolutionary social networking site, EyeCopy. You have been entrusted with designing a DFD for the proposed application. In particular, you have been asked to show the following scenarios:
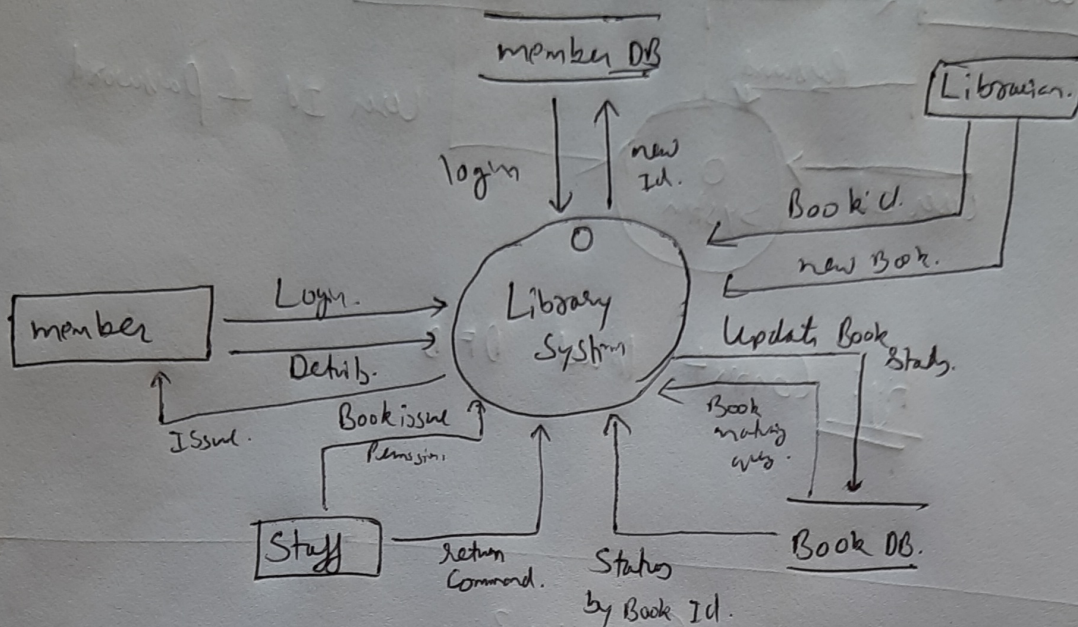
- User registration
- User login
- Profile update

Draw a Level 1 DFD to depict the above data flow and the corresponding processes.

LEVEL-1 DFD

- Case Study

  — 0 level DFD

member DB

Librarian.

login | new Id.

Book id.

new Book.

O

Library System

member

Login.

Details.

Issue.

Book issue
Permission.

Update Book Status.

Book marking avbs.

Staff

return Command.

Status by Book Id.

Book DB.

  — 1 level DFD

Existing user Status.

member DB

1.5 Registro

user

IO.

nonmember

new ID

1.1 Authentice user.

login

member

Request Book detail.
Issue transaction detail.

Authention user.

Issue Status.

Book marking.

1.6 Search book

query

member.

List of books

1.2 Issue Book

Book DB

Status by Book id.

Update Book.

Book issue

Library Staff

return Book.

Issue Book ID.

1.4 update book stats

1.3 Return Book

transaction detail.

Return Book ID

new book id.

Book to be return.

1.7 Add Book

Librarian

new book.

1.8 Remove Book

Book id

Existing book id.