**Library Management System**

**Backend Document**

**Introduction:** A library system in which admin can sign up and login to the system. Admin can see the list of books, add the book, edit and delete it.

1. **Requirements:**
2. Python version 3.5 or above.
3. MySQL installed on the system. (Start the mySQL workbench/shell while using the application.)
4. **Steps to run Backend application:**
5. Create a virtual environment using command “**python -m venv <path/to/virtualenv>**”
6. Activate virtual environment and install the required libraries using requirement.txt command – “**pip install -r <path/to/requirement/txt>**”
7. Before using the run command, change the database setting in settings.py.

DATABASES = {

'default': {

'ENGINE': 'django.db.backends.mysql',

'NAME': <database\_name>,

'USER': <user\_name>,

'PASSWORD': <password>,

'HOST': <host>,

'PORT': '3306',

}

}

1. Use command “**python manage.py makemigrations**” so that Django will create a migration file of models.
2. Command “**python manage.py migrate**” to create models in database.
3. To run the application use command “**python manage.py runserver**”.
4. **API’S**
5. For admin sign up

<http://127.0.0.1:8000/Admin/adminView/signUpAdmin/>

sample input:

{

"email": "nidhisk@gmail.com"

"password": "nsk@123"

}

1. For Login

<http://127.0.0.1:8000/Admin/adminView/loginAdmin/>

{

"email": "nidhisk@gmail.com"

"password": "nsk@123"

}

**Note**: Admin can only login to the site administrator portal. We can access the portal using “**http://127.0.0.1:8000/admin**”

**Book API:**

1. For saving book:

<http://127.0.0.1:8000/bookManagement/bookView/saveBook/>

sample input:

{

"book\_name": "The Secret",

"author": "Rhonda Byrne",

"category": "Spiritual"

}

1. For list of books:

<http://127.0.0.1:8000/bookManagement/bookView/listBook/>

1. For Updating book

<http://127.0.0.1:8000/bookManagement/bookView/updateBook/>

sample input:

{

"book\_id": "71992292-12e3-4293-ae78-4d6acef20e6c",

"book\_name": "The alchemist",

"author": "Paulo Coelho",

"category": "Spiritual"

}

1. For deleting book

<http://127.0.0.1:8000/bookManagement/bookView/deleteBook/>

sample input:

{

"book\_id": "cec66946-1d35-474a-a858-1c638f486abe"

}

**Note** : Change the id’s with proper database id’s which we will get in list API.