Project Report: Modern Application Development – 1
Library Management System

Student Details

Name: - Kanishk Kumar
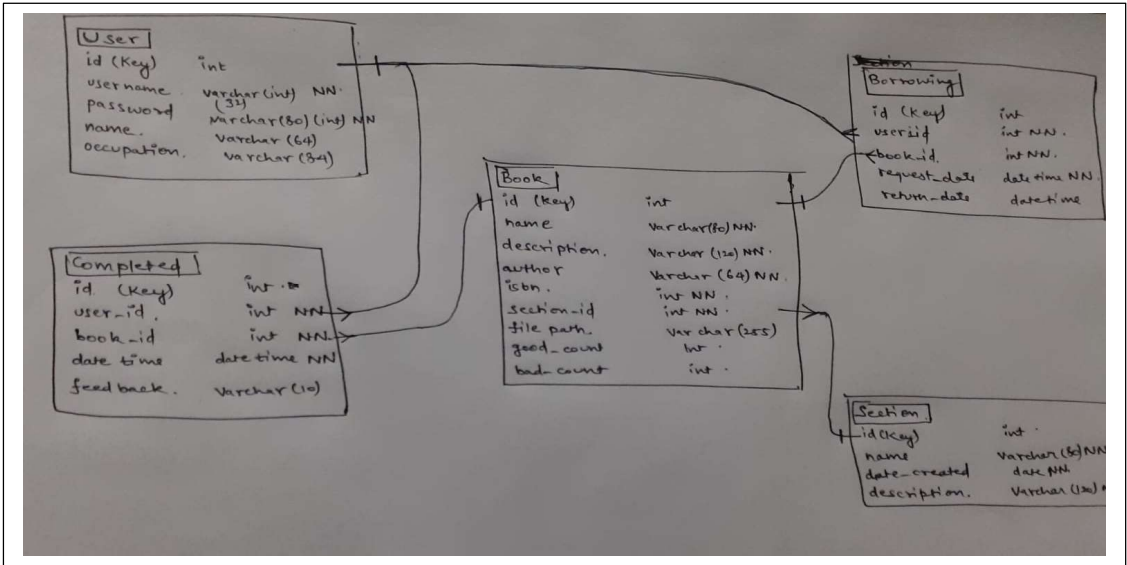Student mail: - 22f1000386@ds.study.iitm.ac.in

Description: -
This project was to develop a dynamic web application that implements CRUD operations (Create, Read, Update, Delete) and with some extended features using the MVC (Model-View-Controller) architecture.
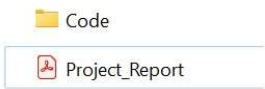
Technologies and Frameworks: -
Web: - HTML, CSS, Bootstrap.
Python Libraries: - Flask, Matplotlib, Jinja, Flask-sqlalchemy.
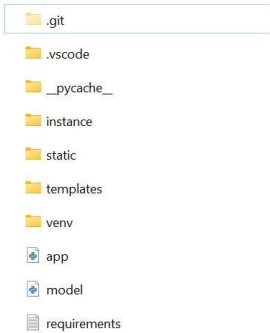Database: - SQLite

Database Schema: -

Files Arrangement and Structure: -

>>>Project Folder/

>>> Project_Folder/Code

About Project Feature: -

Laibrary Management System is the Web application used by the General User and Laibrarian(Admin).

User: -

- A User Can Login/Register.
- View the Current Section/ebooks
- Request/Return Books (content)
- A user can issue maximum of 5 books.
- A user can access a book for a specific period of time
- User can give feedback for book

Laibrarian: -

- Issue one or Multiple book to a user.
- Revoke access for one or multiple e-books from a user
- Assign, Edit and remove existing section.
- Current status of the e-book and the user it is issued to.
- Available e-book in the Laibrary.

Video Link: -

Short Video (2-min):- https://drive.google.com/file/d/1zZmzbnpI57qT7zlD04PRgYGeG5TcMH_d/view?usp=sharing

Long Video (8-min): - https://drive.google.com/file/d/1lL31eONlpdM_ZC6N3GnQcElm3chpO-Xc/view?usp=sharing