Aniket Dixit

DPSG International | ghazibad

Library Management System

Class XII – INFORMATICS PRACTICES PRACTICAL FILE

Certificate

This is to certify that Master Aniket Dixit studying in the DPSGI Ghaziabad of standard XII has completed the Informatics Practices (Python) Project. Aniket has developed a Python-based Library Management System (LMS) project under the guidance of Rajeev Sir during the academic year 2023-24

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INTERNAL EXAMINER

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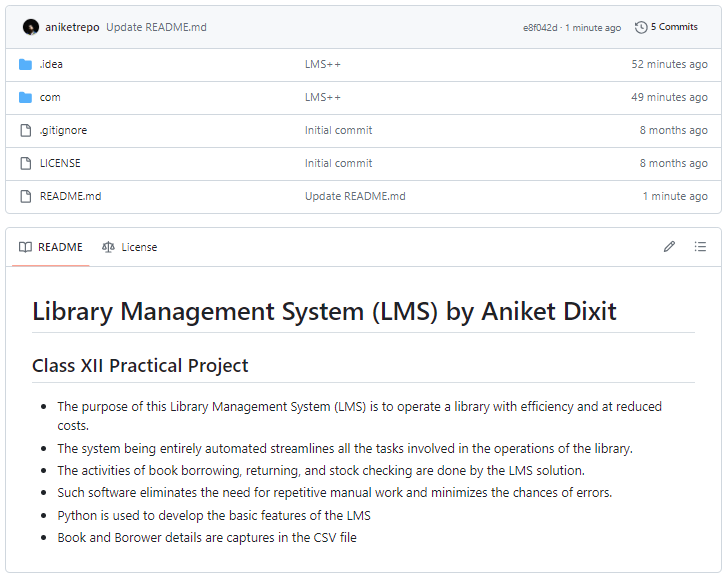
EXTERNAL EXAMINER

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PRINCIPAL

Project Code Structure

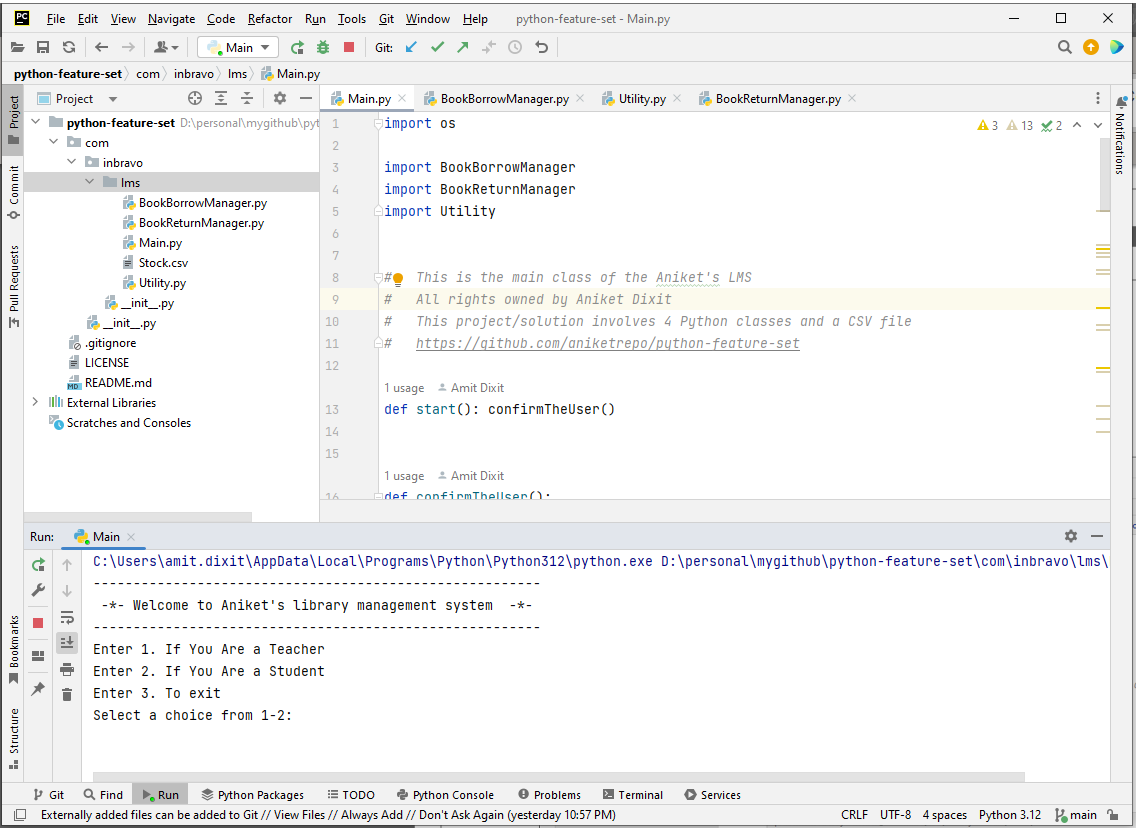
The following GitHub repo snapshot provides a bird-eye view of the LMS project.



The following codebase is available at my GitHub repo: <https://github.com/aniketrepo/python-feature-set>

IDE View of the LMS Codebase

The following PyCharm IDE snapshot provides a bird-eye view of the LMS codebase.



Python Files of the LMS Codebase

The following 4 Python files are part of the LMS codebase.

Solution Details

LMS solution is developed in Python language. I have used some of the online available references to understand the control flow and developed a similar Python class structure and functions.

|  |  |
| --- | --- |
| Feature | Description |
| Confirm the user Type | Main.py is the entry class. The following text is printed when you execute it: |
| Show the Library Usage Options (Book Borrow/ Return/ Listing) | The user must confirm its type before performing any LMS features. After the confirmation by entering Either 1 OR 2, it shows the following text: |
| Library Usage Options (Book Borrow) | If the user enters option 2. It asks for the User's Details (First and Last Name). Then it provides some book options to choose from |
| Library Usage Options (Book Return) | If the user enters option 3. It asks for the User's Name (First Name). Then it provides the details of the borrowed book and performs the book return option |
| Library Usage Options (Book Listing) | If the user enters option 1. It asks for the User's Name (First Name). Then it provides the details of the borrowed book and performs the book return option |