

University of Mauritius

ICDT 1201Y Assignment

Read the instructions carefully and clear any doubt with your tutors!

Title:

Create a small application in Python using OOP that stores data in text files

NOTE: A list of potential titles are found at the end of this document.

Requirements:

1. Define the problem
2. Analyse the requirements
3. Design the solution
4. Implement & Test the application in Python
5. Document your coding

Group: 2 persons

Evaluation:

- Assignment will be evaluated in **Semester 2, Week 9/10**
- Do not hesitate to ask questions if you have queries.
- **Although this is a group project, each member will be marked individually based on his/her contribution.** This should be clearly defined in the Introduction (Distribution of Task)

Deliverables:

- **Semester 2 - Week 8:**
 - **Soft copy** of report + Full code listing

Report template [Maximum 10 pages, excluding References & Appendix]

*(Students MUST use this template for submission but can adapt as per the project requirement. **Indicative number of pages are also included as a guide**)*

- **Title Page**
- **TOC**
- Introduction [Max 2 pages]
 - The Problem
 - Proposed Solution
 - Scope (What are the boundaries and functionalities which will be implemented)

- Distribution of Task (who has implemented which modules/functionalities)
- **Solution Design** [Max 3 pages]
 - Pseudocodes/Flowcharts
- **Implementation & Testing** [Max 5 pgs]
 - System requirements
 - Implementation of each component (different modules)
 - Test Plan & Scenarios (Unit, integration, system)
 - Sample Screenshots
- **Conclusion** [Max 0.5 pg]
 - Achievements
 - Challenges and problems encountered
 - Future Work
- **References**
- **Appendix** (Full code listing **including** *proper naming conventions & code documentation*)

Assessment Criteria

- Coding/Implementation
- User Interface
- Program testing
- Creativity/Innovation

Penalty for Late Submission

- **10%** of the total assignment marks will be deducted for late submission for **each day** up to a **maximum of 10 days**, after which the assignment will no more be accepted.

Special NOTES:

- Students should include good programming principles in the design and implementation of their solution. (naming conventions, code documentation, testing)
- Students should acknowledge use of external courses (Plagiarism & Referencing covered in ICDT 1016Y).
- Students **SHOULD** be able to respond to any query based on personal contribution; otherwise student will be penalized

POSSIBLE TITLES:

1. Library System
2. Stock Management System

3. Cashier system for a small Supermarket.
4. Car Rental System
5. Hotel Reservation
6. Event Management system
7. Incident Management system
8. Pharmacy system
9. Trip advisor
10. Car Pooling system
11. Pet adoption system
12. Pet grooming centre
13. Optician Patient Management System - appointments and prescriptions

NOTE: Students can propose their own titles that should be vet with their tutor