



Object Oriented Software Development - CA3: Customer Invoice Management System

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Worth: 20%

Version: 0.6, *Document subject to change, so check it regularly!*

Due: 25/02/21

Problem:

You are required to develop a system to manage customers' purchases. The system should consist of at least the following:

- Backend database
 - Minimum 3 tables (e.g Customer, Invoice, Product)
 - Provide inner join over multiple tables
 - Any database or your choice (needs a Java database connector)
- Front end GUI

- Should provide CRUD (create, retrieve, update,delete) operations on the database
- Should demonstrate use of a variety of Swing components (Buttons, Textboxes, etc.)
- Provide Error Handling in your code (e.g can user put a 'string' into a field expecting an 'int', properly structured email address, etc.)
- Use your git repo to store the code for the project
- **Zip the files (Screencast, Document, Database dump, Project API & Executable jar file) and rename the zipped file (e.g. CA3-Student-Name.zip), then upload to Blackboard**

Deliverables:

1. Screencast of project working
2. Documentation should include:
 - Description
 - Requirements
 - Screenshot database tables (Structure & Data)
 - ER Diagram
 - Interesting source code snippets (not a source code dump)
 - Tests
3. Source code
4. Database Dump
5. Project API
6. Executable jar file

Marking Scheme:

- Database Operations (CRUD) through the GUI = 40%
 - 10% per operation
- Use of GUI Components = 30%
 - Use of at least 5 components = 10%
 - Remainder of marks for well-presented GUI = 20%
- Project Documentation = 20%
- Project Screencast = 10%