**Reflection Document for Project 1 (W200, OOP Project)**

**BizOOP**

**Designed and Developed by Prakash Krishnan**

**Introduction-**

BizOOP is an Enterprise Application Program that allows creation of companies inside an organization, create and manage employee profile for each of the companies, create and manage budget accounts for withdrawls, deposits and money transfer and review company product catalog.

The application has an intuitive UI with seamless flow between menu choices and error checking on user entries where appropriate.

See below for an overview of Menu Structure and UML Diagram of the application.



**Steps to test the application-**

Requirements-

* Redesigned\_flowers\_menu.py (main driver program and menu)
* Redesigned\_flowers\_module.py (class and methods)

1. From command prompt type [>python Redesigned\_flowers\_menu.py]
   1. ENSURE Redesigned\_flowers\_module.py is in the same directory
2. Create a new company first before proceeding (Menu Option 1)
   1. If you need to modify company attributes use Menu Choice 2
3. Create employee profile (Menu Option 4)
   1. If you need to modify employee attributes use Menu Choice 5
4. Create a budget account to manage deposits, withdrawls and transfers (Menu Choice 8)
5. View and search product catalog (Menu Choice 9)
   1. Ensure you add products to company (Menu Choice 1 in Product Menu First)
6. Enter Menu Choice 0 to exit application

**Challenges and Solutions-**

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| Item | Challenge | Solution |
| 1. | Scope of the Project and Time Constraints to Deliver | Reduced Scope and eliminated shopping cart and payment class from the design |
| 2. | Determining which methods reside in which class | Trial and Error and clearly understanding the UML design |
| 3. | Just basics of OOPs and understanding how self and cls work with instance and class objects | Trial and Error |
| 4. | Creating the UI Layer increased testing and code changes | Trial and Error of Menu Design and Testing Flow |
| 5. | Develop as you go methodology | I used build as you go methodology and this caused code proliferation and inefficient flow. I had to go back and refine the code and this took time and effort. |

**Final Deliverable versus Original Project Design -** All aspects of the project design were delivered as part of the code.