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| A blue and white sign  Description automatically generated BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY | **Assignments #1** |
| School of Computing and Academic Studies | COMP3975 |
| Programs: CST | Assignment 1 due: Wed Mar 6, 2024, at 11:59 pm |

EXPENSE Classification

# Background

You will import 2023 02.csv into a SQLite database table named *transactions*. These transactions represent a typical monthly bank statement.

# BUCKETS

You will create another table named *buckets* that helps the customer classify expenses. An example of entries in this table are:

|  |  |
| --- | --- |
| Entertainment | ST JAMES RESTAURAT |
| Communication | ROGERS MOBILE |
| Groceries | SAFEWAY |
| Donations | RED CROSS |
| Entertainment | PUR & SIMPLE RESTAUR |
| Groceries | REAL CDN SUPERS |
| Car Insurance | ICBC |
| Gas Heating | FORTISBC |
| . . . . . . | . . . . . . |

# Reports

Your application will generate a report for any given year that shows a breakdown of expenses in the following format:

|  |  |
| --- | --- |
| Entertainment | 560.76 |
| Communication | 32.94 |
| Groceries | 237.94 |
| Donations | 173.98 |
| Car Insurance | 78.96 |
| Gas Heating | 87.02 |
| . . . . . . | . . . . . . |

In addition, you will also display a pie chart visualization of the above table (also for a given year).

# Additional Requirements

Your web application will have the following features:

* There must be a feature that allows the user to import any file with the same format. Once a file is uploaded, it is renamed to with an extra extension of .imported
* Add, edit, and delete capability of bank *transactions*.
* Add, edit, and delete of *bucket* data.
* A registration page that allows users to register with their email and password.
* To login, a registered user has to be approved by the adminstrator.
* The admin username and password must be set to aa@aa.aa and P@$$w0rd
* Users must be authenticated to access any page. The only exceptions are the *register* & *login* pages.
* You will deploy your application to Azure.
* Put the name and team members in the footer on the home page of your application.

# SUBMISSION:

* Do not include unnecessary files that are not needed in your submission.
* Put the following information into the learning-hub (D2L) as you upload your solution:
  + The URL of your app deployed to Azure.
  + your names, BCIT ID numbers and your preferred email addresses. Avoid your my.bcit.ca email account because it has file attachment restrictions. This is necessary in case the assignment marker wishes to urgently contact you.
  + what you have NOT completed
  + any major challenges
  + any special instructions for testing your web app.
* Assignments must be zipped (.zip extension) and uploaded to the drop-box folder for Assignment 1 in D2L (Learning Hub). Do not use any compression utility other than zip.
* Your ZIP file will include all directories and files comprising your entire web app.
* Each team must make only one submission. If you make more than one submission then you should use the same file name and clearly version the file by adding \_v2, \_v3, etc

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| Task | Max Mark | Actual Mark |
| Ability to import multiple files | 5 |  |
| Add, edit, and delete capability of bank transactions | 7 |  |
| Add, edit, and delete of bucket data | 8 |  |
| Registration and authentication | 2 |  |
| Reports | 4 |  |
| Deployment to Azure | 2 |  |
| Other   * student names on the home page * followed instructions. * Design and coding conventions * Contents & quality of D2L comments * No errors | 2 |  |
| **TOTAL:** | **30** |  |