**1.There are three files all in one path**

**split.py contains four classes**

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| **DataManage class:** Providing methods controls the data connection with database, such as inserting new data, updating data, accessing data, commiting data, creating table and database when necessary. |
| **Project class:** Can be created by passing a project name. A new line of data will be passed into database when the project\_member list is altered. The project\_member list can also be recovered by accessing the database. Database accesses were done by methods of an instance of DataManage class. |
| **Person class:** Can be created by passing a project name and a member name. The corresponding project data will be altered, such that the part which contains the member’s votes will be updated. |
| **Spliddit class:** Providing the main methods for the application to work, such as methods provides different operation when different choices are made, methods checking whether the input is valid or not. Data passing is done by instances of Project and Person classes. |

**run\_program.py**

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| Contains a program to create an instance of Spliddit, continuously asking user to input until a valid option is selected. Different methods of the instance of Spliddit will be called to perform the desired operation. |

**test\_program.py Contains one class TestSplit inherited TestCase from unittest, having methods**

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| **test\_option method**: Test where option is valid. Putting valid options individually and see whether the return value is True. Putting not valid options separately and see whether the return value is False  **test\_number method:** Test whether input number is integer. Putting different integers individually and see whether the return value is True. Putting different non-integers separately and see whether the return value is False.  **test\_valid\_zero method:** Test whether input number is larger than or equal to zero. Putting different integers larger or equal to zero and see whether the return value is True. Putting different integers smaller than zero separately and see whether the return value is False.  **test\_valid\_three method:** Similar to **test\_valid\_zero method**, but this method test whether input number is larger than or equal to three. |

**2. running programs**

Command “python run\_program.py” in the path will run the main program, that is, the application

Command “python test\_program.py” in the path will run the test program which test the units of Spliddit class

**3. Python style guide**

PEP8 is used in all files where all class names are using CapWords. Functions, methods and variables are named using lowercase with words separated by underscores. Self as the first argument in methods, etc.

**4.Testing program**

The testing procedure can be found in the first part where the test\_program.py is described.