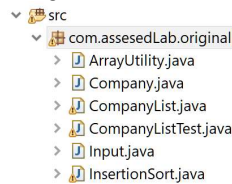


From AssesedLab To MVC

10 March 2020 08:51

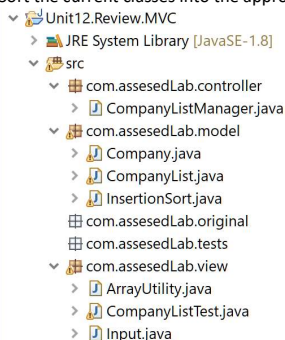
1) Starting from the submission.



2) Create four new packages

- com.assesedLab.model
 - This should store classes that are only related to the domain
 - These classes should not communicate directly with the user (i.e. no System.out.println nor use of Input class)
- com.assesedLab.view
 - Classes here should communicate with the user and pass messages to the controller
 - A controller object should be instantiated somewhere here
- com.assesedLab.controller
 - For the size of the assesed lab / coursework, one class should be enough
- com.assesedLab.tests
 - Tests of the model go here.

3) Sort the current classes into the appropriate packages

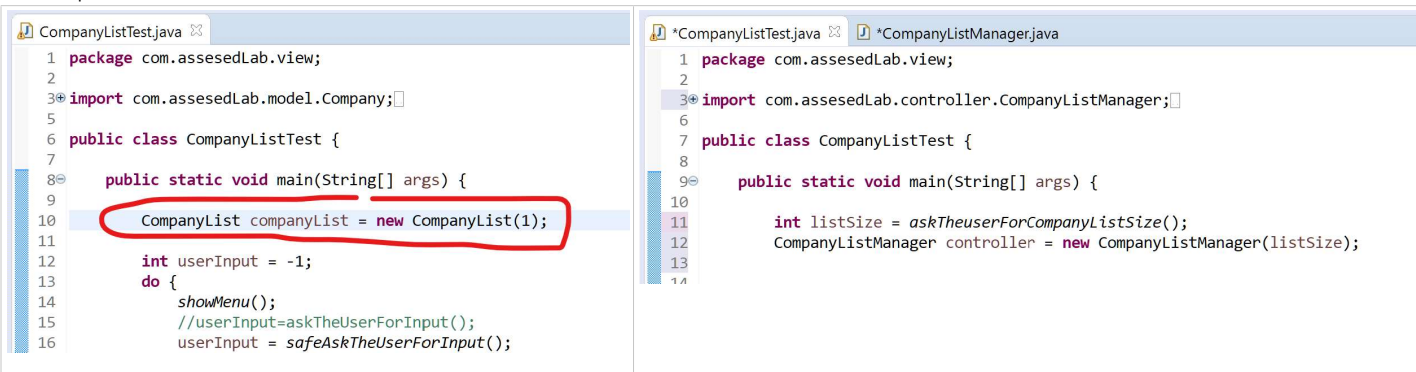


4) Create a controllerClass which I'll call "CompanyListManager"

- CompanyListManager is responsible for passing the information from the view into the controller.
It will have a member of type CompanyList and (at least) one method per menu item.

5) (As I am migrating) the next task is to replace calls from the CompanyListTest that go directly to model class and add the CompanyListManager as intermediary.

For example:



6) Adding Exception support.

Where to add programmer defined exceptions depends on the designers preferences. I prefer to add another package "DomainExceptions", since it is likely that members from all other packages will need to know the domain exceptions (i.e. They will depend on them).

7) Handling invalid inputs

Invalid inputs should be checked at each layer/package. As the benefit of the MVC is that each component can evolve separately. Therefore each layer should not trust messages from the other layers.

Todo:

- ☐ Explore the sourcecode.
- ☐ Complete exception support
- ☐ Complete with error handling of user input, and message checking