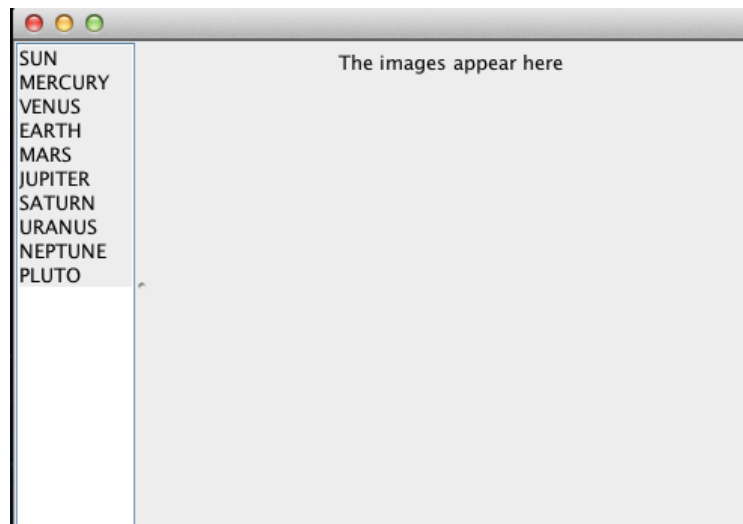# SE/ComS 319: Software Construction and User Interface (Exercise 3)
09/28/2012

This exercise is prepared to introduce you to JList Swing UI component and events. The submission requirement is as follows: Write your name on top of the java file that you will submit as part of this exercise; submit the file via Blackboard by 11:59PM, 10/02/2012.

- Learning outcomes

  `JList, JSplitPane, Simple Design`

  You are required to develop a software with the following user interface

The **use case** of the software is as follows:

1. User can select an entity from the solar system list (left-hand side of the UI)

2. User can view an image of the selected entity (right-hand side of the UI)

There are two **functional modules** that realize the above use case functions: selection module (a list of entities) and a view module. The selection module sends information regarding the file containing the image of selected entity to the view module. The view module presents the image.

The **data model** is made of ten files containing images for each entity. The file names correspond to the entity names.

The **UI** is designed as follows:

- Frame is composed of a split pane

- Split pane is composed of a scroll pane and a viewing pane

- Scroll pane contains a list which has a model containing ten picture files

- Viewing pane contains a label which, in turn, contains 0 or 1 image

- The image in the label has a one-to-one relationship with the picture file in the list model

Download the images.zip, unzip and place the image directory in your eclipse workspace under the project folder. Review the code SimpleListEx.java. Update the relative path names of the image files, if necessary.

1. Implement the missing list selection listener to realize the functionality described above.

2. State whether the implementation satisfies the above design specification. Write your answer at the top of the file using java comments "/* ... */".