Prog 1502 uml assignment

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Coupling and cohesion

I submitted questions 1 and 2 last week in tutorial. I don’t know what repository they are in now but I was one of only 3 students who got them done during that tutorial.

3. Out of program 1 and 2, program 2 is better. Program 2 is better because it has loose coupling between classes. This means that there is low reliance between classes, and we won’t have to change both classes if we want to change a single class.

4. The problem with this program is that there are completely unrelated methods within the same class. It has very low cohesion which is bad. Here is how I made the code better by putting it into separate classes:

|  |
| --- |
|  |
|  | Class otherStuff {  // -------------- unrelated functions |
|  | public boolean validateLocation(String pathIP) { |
|  | return ping(pathIP) && checkFTP(pathIP); |
|  | } |
|  | private boolean checkFTP(String pathIP) { |
|  | return true; |
|  | } |
|  |  |
|  | private boolean ping(String pathIP) { |
|  | return true; |
|  | }  } |
|  | class MyReader { |
|  | // -------------- functions related to read resource |
|  |  |
|  | // read the resource from disk |
|  | public String readFromDisk(String fileName) { |
|  | return "data of " + fileName; |
|  | } |
|  |  |
|  | // read the resource from web |
|  | public String readFromWeb(String url) { |
|  | return "data of " + url; |
|  | } |
|  |  |
|  | // read the resource from network |
|  | public String readFromNetwork(String networkAddress) { |
|  | return "data of " + networkAddress; |
|  | } |
|  |  |
|  | } |