

Homework 1 report of Software methods for biotechnology-11693

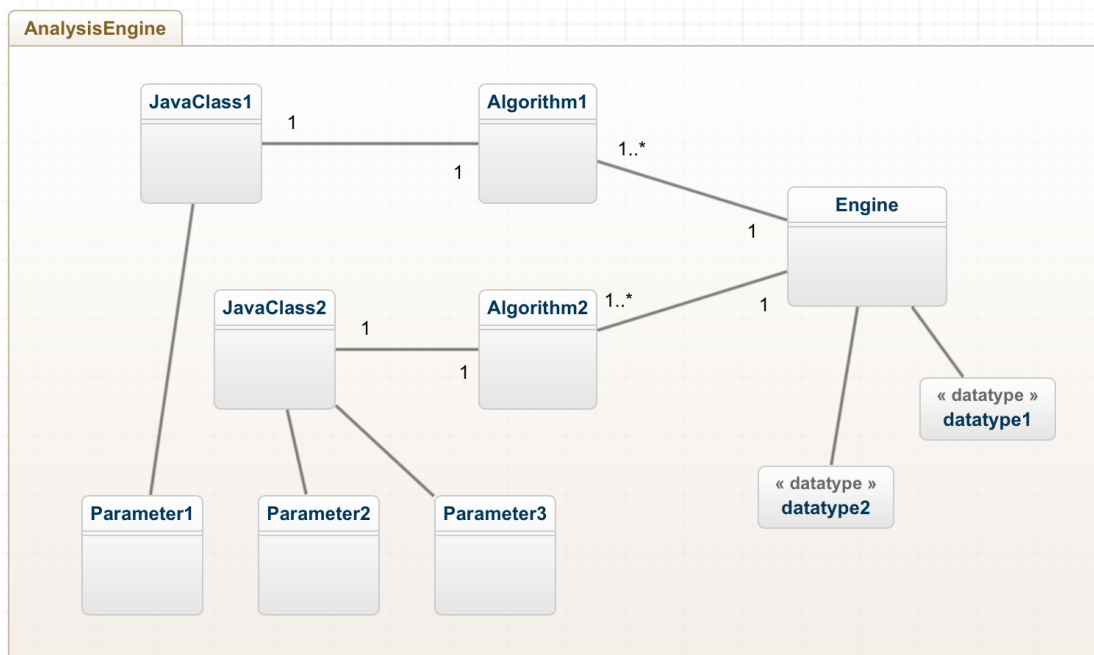
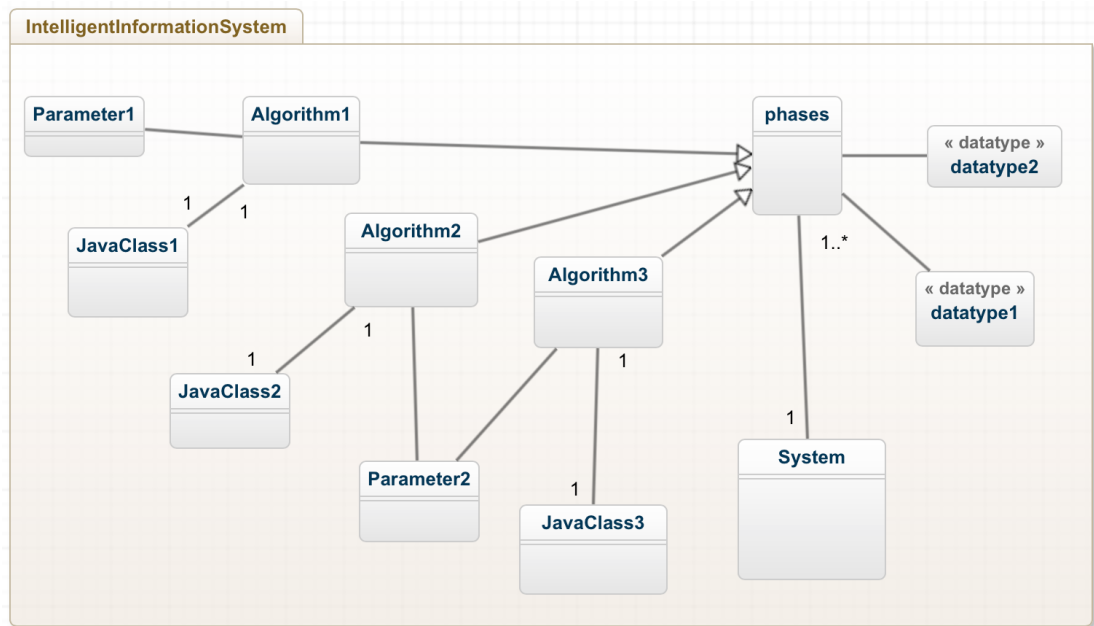
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I have got a lot of useful information about LINGPIPE (<http://alias-i.com/lingpipe/index.html>) and a lot of help regarding the homework from Xiao Han. As one of my major class of homework, geneAnalysis.class, which is gene annotator of the CPE, was spired by him a lot. And Victor Zhao helped me a lot about all this git and maven things, even though I still failed to hand in my homework in the desired way.)

Task1

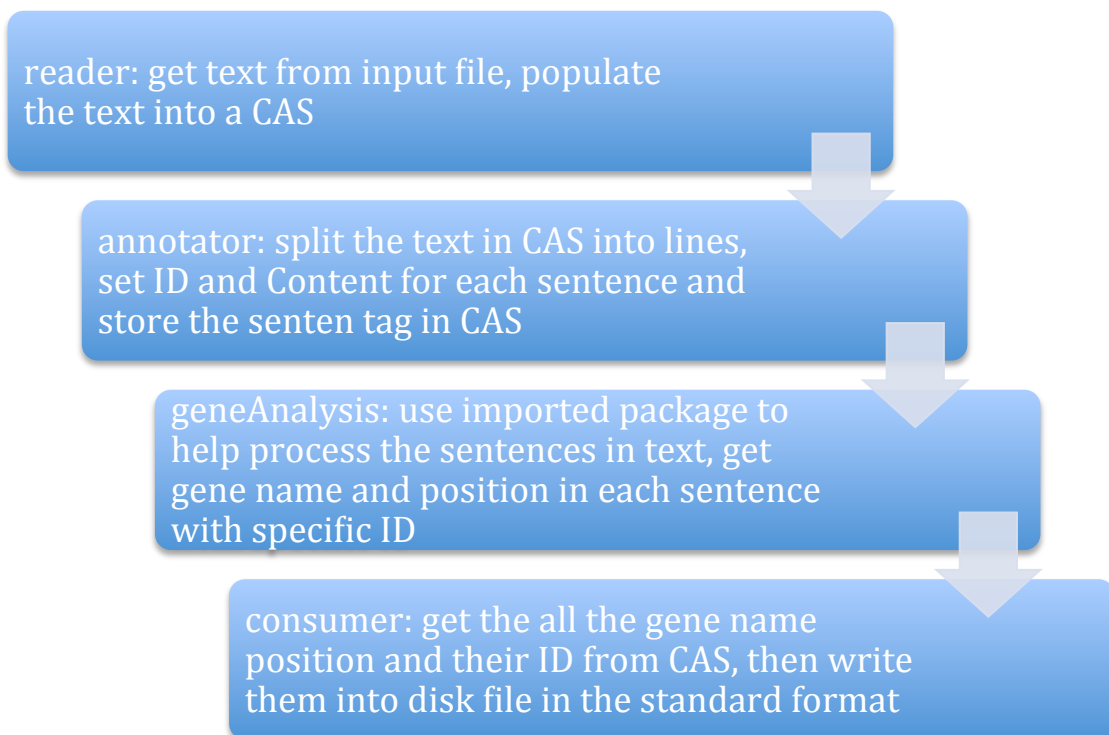
UML documents



Task2

Design and Implementation of IIS

UIMA provides a standard frame for us to analysis totally unstructured dataset. By definition of tutorial, CPE is composed of three parts: Collection Reader, Analysis Engine and CAS Consumer. In my designed program, Collection Reader is implemented by **reader.class**; Analysis Engine is implemented by **annotator.class**, together with **geneAnalysis.class**; and CAS Consumer is implemented by **consumer.class**. These 4 classes communicate via an object of class CAS and here is the flow.



The SimpleRunCPE.class initializes a CPE and process the input file in the flow.