Requirement Analysis Document(RAD)

INTRODUCTION

We developed a data labelling system in a strictly object oriented manner. We created 8 Classes which are User, LabelInstance, LabelDefinition, LabelVector, Classifier, Negative, Positive and JSON. With using these classes, we are reading a JSON file and we are making a labelling mechanism. We use different methods in these classes to read and label.

Our system can be used for different sectors and different manners. For instance, it can be used for analyzing user comments and labelling them. So, product owners or responsible persons can manage user experience better.

In future iterations we will add some basic machine learning algorithms and improve our system.

Functional Parts;

This project is a multi-user system.
A user labels many instances.
An instance label by one or more users.
Our labeling mechanism is a random labelling mechanism which randomly chooses one of the labels from the set of labels and assigns it to the instance.
The set of labels read by our system from a dataset file. Instances have multiple labels when the number of labels are bigger than 1.

Added User Performance Metrics.
Added Instance Performance Metrics.
Added Dataset Performance Metrics.
Added ConsistencyCheckProbability.
Added CurrentDatasetId.
Our program is able to stop the simulation at any time and access the reports.

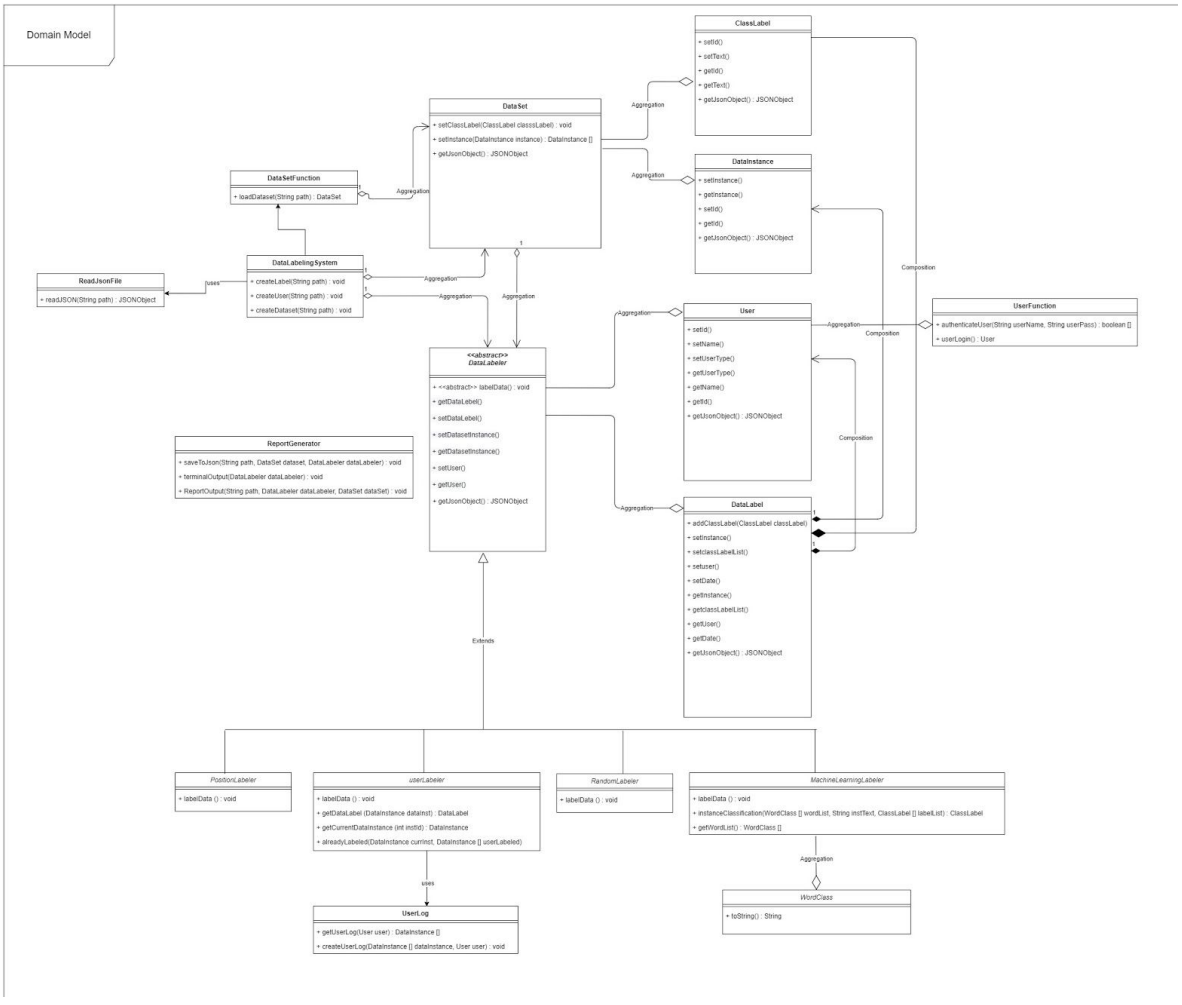
Our program uses the command line user interface.
When it runs, it asks the user for a username and password.
It checks this data from the config file.
When the username and password match the entered information, the user will be able to do labeling.

If username and password does not match, it displays wrong user name and wrong password message and asks the correct ones
Bot users can be added in our project.
Apart from the user related to the random tagging process, a tagging user working with the tagging systematic according to the keywords can be added.

Non-Functional Parts;

There are no non-functional parts for iteration 1, iteration 2 and iteration 3.

DOMAIN MODEL



Workload Distribution
We are 10 people;

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Abbas Kutay 150119674
Ahmet Fatih Yüksel 150119660
Orhan Fatih Bayazıt 150119658
Harun Sarı 150119626
Ahmet Mengüç 150119722
Selahattin hüsmen 150119652
Selimhan Çakır 150119895
Emir buğra kılıç 150119672
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