CSE 3063

Object Oriented Software Design Project

“LABEL.IT”

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1.Introduction

The purpose of this document is to specify the system requirements and the overall description of the concept of this project. It contains the constraints of the system, the system functionality using diagrams. It also contains the user and system interfaces. In addition, Logical database design is specified by ER and Class diagrams. This document is an initial reference for developing the first version of the system for development team.

1.1 Purpose

The purpose of the project is to provide a data labeling mechanism where the users can label a group of instances which is also known as a dataset via a user interface. These labeled datasets can be used for the training of Artificial Intelligence models such as Machine Learning models.

1.2 Intended Audience and Intended Use

This Software Requirements document is intended for:

− Developers who can review project and understand where their efforts should be targeted to improve or add more features to it. (It is a guideline for future developers)

− Project testers can use this document as a base for their testing strategy as some bugs are easier to find using a requirements document. This way testing becomes more methodically organized.

oOur customer who wants to fully understand how our development team fulfill their desires about project.

− End users of this application who wish to read about what this project can do.

1.3 Project Scope

The purpose of the project is to provide a data labeling mechanism where the users can label a group of instances which is also known as a dataset via a user interface. These labeled datasets can be used for the training of Artificial Intelligence models such as Machine Learning models.

2. Overall Description

2.1 Product Perspective

- **User Details:**

  It includes our users information such as user type, user name, id and password.

- **Labels Details:**

  It includes labels data such as label id, label text and instances that labelled by that particular label. (We store instances in labels data because maybe we want to search some instances by their labels in further iterations.)

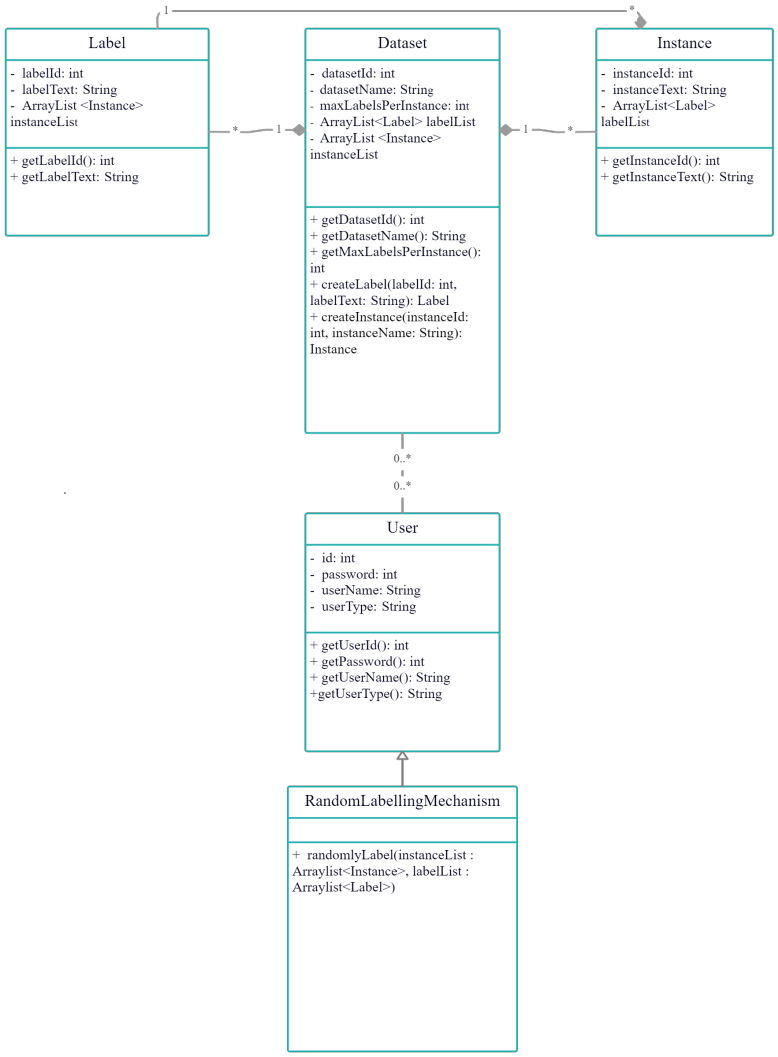
- **Instance Details:**

  It includes instances information such as instance id, instance text and labels which labels that particular instance. So we can reach that instances labels that labeled by user.

- **Dataset Details:**

  It includes datasets data such as dataset id, dataset name, max labels that an instance can take and labels and instances in dataset.

2.2 Product Features



2.3 Users

In label.it there are multiple types of users. At first stage of our program we only have RandomLabellingBot that labels instances randomly. But after updates there will be other user types that our customer wants our program to have. For example if our customer wants us to make people can create a user and label instances themselves, we will add that feature. In future updates user should be able to search labels an instance have or instances a label labels.