Configuration

+ configJson(User user): void
+ formatJsonString(String str): void
+ readFileAsString(String file): String

Output

+ outputJSON(Dataset dataset, ArrayList<User> userList): void
+ formatJsonString(Dataset dataset):void
+ readFileAsString(String file): String

CompletenessPercentage

- percentage: double
- User: User

DatasetAssignment

+datasetAssign(File file): Dataset

LabelConsistency

- label: Label
- consistencyCheckProbability: double

UserAssignment

- userList: ArrayList<User>

+ userAssign(Dataset dataset): void
+ calculateSD(ArrayList<Long> time):
double
+ getPopularElement(ArrayList<Label>
list): Label

Dataset

- datasetID :int
- datasetName:string
- maxLabel:int
- instanceList:ArrayList<Instance>
- labelList:ArrayList<Label>
- completenessPercentage:
completenessPercentage
- assignedUserList:
ArrayList<User>

+calculateCompletenessPercentage
(): double

Label

- labelID: int
- labelText: string
- count: int

+ createLabelList(File file):
ArrayList<Label>

User

- userID: int
- userName: string
- userType: labelingMechanism

+ createAssignedUserList(File
file): ArrayList<User>

LabelingMechanism {abstract}

+ makeAssignment(Instance,
Dataset, User, LabelConsistency,
ArrayList<User>):Assignment

Instance

- instanceID:int
- instanceContent:string
- assignmentList:ArrayList<Assignment>
- isAssigned: boolean

+ createInstanceList(File file):
ArrayList<Instance>
+ words(): ArrayList<String>

Assignment

- User:User
- labelList: ArrayList<Label>
- localDateTime: DateTime

HumanUser

- password: String

ManualLabelingMechanism

- Label: Label

+ makeAssignment(Instance,
Dataset, User, LabelConsistency,
ArrayList<User>):Assignment

RandomLabelingMechanism

+ makeAssignment(Instance,
Dataset, User, LabelConsistency,
ArrayList<User>):Assignment
+ finalLabel(ArrayList<Label>
labelList): void

SubjectLabelingMechanism

+ makeAssignment(Instance,
Dataset, User, LabelConsistency,
ArrayList<User>):Assignment

IsAssigned

- isAssigned: boolean
- Instance: Instance
- User: user

HumanUserInterface

- human: User
- loggedIn: boolean
- dataset: Dataset

+ login(): void
+ labelInstances(): void