analyse(String text);

## DownloadMetaData data <<interface>> impl DownloadZip **ScrapePictures** UnzipFile Protocol ProtocolFileImpl String searchUrl; + unzip(String source, - String[] pictureAndData; String pDate: String target); Integer electionPeriod; download(String link, + zipSlipProject(ZipEntry + void initialize(Document doc): + ScrapePictures(String Integer sessionID: zipEntry, Path targetDir); + void setStartPageNr(Integer startPageNr); String dir); name, String surname) String title: + int getStartPageNr(); getSearchUrl(String name, Integer startPageNr; String surname) void setDate(String pDate); ArrayList<Agendaltem> allAgendaltems; + performSearch(); + String getDate(): <<interface>> getMetaData() ArravList<String> leaders: + void setAgendaltem(Document doc); Agendaltem DownloadXml **ScrapePictures** + ArrayList<AgendaItem> initialize(Document doc) getAllAgendaltems(); **Parse** void setSessionID(Integer sessionID); String link; + void setAgendaItemID(String id); File out: Integer getSessionID(); + String getAgendaltemID(); + load(int nameOfFile, int + void setLeaders (Document doc); AgendaltemFile Impl + protocolLoading (String link, + void setAllSpeeches(Node nNode, Protocol period. String + ArravList<String> getLeaders(): + pars(); File out): String agendaltemID; linkToLoad): + void setElectionPeriod (Document doc): + run(); + ArrayList<Speech> getSpeeches(); ArrayList<Speech> allSpeeches; + loadDTD(): + Integer getElectionPeriod(); + void setTitle(String title): + String getTitle(); database SpeechFile Impl <<interface>> <<interface>> String speechID; Member Speech String text = "": MongoDB-BTObiectTo-**PropertiesFile** ArrayList<Comment> allComments; ConnectionHandler MongoDocument String speakerID: String setName(Node Mdb); void setSpeechID(String speechID); MongoClient mongoClient; private Protocol protocol = null; String setSurname(Node Mdb); void initialize(Node kNode, Protocol protocol, + readPropertiesFile() MongoDatabase database; private Agendaltem agendaltem = null String setParty(Node Mdb); Agendaltem agendaltem); MongoCollection <Document> collection Document createMongo-Date setBirthDate(Node Mdb): String getSpeechID(); Document (Member member) close(); Document createMongo-String setId(Node Mdb); String getSpeakerID(); initialize(Node kNode, Protocol protocol, deleteAllCollections(); Document (Speech speech) String setPlaceOfBirth(Node Mdb); void setSpeakerID(String speakerID); getDatabase(); + Document createMongo-Agendaltem agendaltem) String setCountryOfBirth(Node Mdb): String getText(): getMongoClient(); Document(Comment comment) Date setDateOfDeath(Node Mdb); + ArrayList<Comment> getAllComments(); getCollection(); Sentiment getDocument String setGender(Node Mdb): + Protocol getProtocol(); getCollection(String collectionName): Sentiment(JCas iCas) String setMartialStatus(Node Mdb): + void setProtocol(Protocol protocol): getDBDocument(String id. String MemberFile Impl String setReligion(Node Mdb); collectionName) + Agendaltem getAgendaltem(); String name; uploadAllProtocols (ArravList<Protocol> + void setAgendaltem(Agendaltem agendaltem); String setOccupation(Node Mdb): String surname: protocolList) String[] setMetaData(String name, **ApiConnection** insertMember(Member member): String party; String surname); insertSpeech(Speech speech); Date birthDate: String getName(); insertComment(Comment comment) MongoDBConnectionHandler String[] metaData; updateSpeech(Speech speech): String getSurname(); nandler String id; undateComment(Comment comment) String getParty(); <<interface>> List<Strings> allParties deleteDocumentOnDB(String id, String String placeOfBirth: + Date getBirthDate(); Comment collectionName) String countryOfBirth; main(Strings[] args) String getId(); countQuery(String fieldName, int value, Date dateOfDeath: processOuerv() String getPlaceOfBirth(); String collectionName) String gender; getSpeechAttributeSpeaker() + countQuery(String fieldName, String String getCountryOfBirth(); getSpeechAttributeParty() String maritalStatus; String getCommentID(); value, String collectionName); + Date getDateOfDeath(); errorMessage() String religion: + joinQuery(String collectionName, String void setCommentID(String id): String getGender(); sortMap() from, String localField, String foreignField, String occupation; String getText(); String getMaritalStatus(); String as, String fieldName, String value); void setText(String text); String getOccupation(); + joinQuery(String collectionName, String MemberFile Impl(Node Mdb) + String getSpeech(); rom, String localField, String foreignField, String getReligion(); + void setSpeech(String id); String as, String fieldName, int value); String[] getMetaData(); + joinQuery(String collectionName, String String getFullInfoForTesting(); from, String localField, String foreignField, String as); aggregate(String collectionName); CommentFile Impl private String id; private String text; helper private String speechID; nlp XMLFileReader InitializeProtocols + hashCode(); - ArrayList<Protocol> allProtocols ArrayList<Document> allXmlArrayList XMLFileReader xml: NLP ArrayList<Document> allXmlArrayList getAllFiles(); AnalysisEngine pAE = null; ProgressBar pb1; getMetadataXml(); AggregateBuilder pipeline; ProcessFile(File file): InitializeProtocols() getPipeline();