

Controlador Usuaris
- HashMap<String,String> usuaris
+ carregarUsuaris() + Bool controlaLogin(String name, String pas) + carregaDocuments(String nameUser) + Bool isValidPassword(String pas) + Bool newUsuari(String name, String pas)

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CONTROLADOR DE DOMINI
- conjuntdocuments: ConjuntDocuments
+ void CreaNouDocument(String titol, String autor, String Contingut) + void CreaNouDocument(String titol, String autor, String Contingut) + Boolean existeix(String t, String a) + void mostraCercaBooleana() + void mostraCercaBooleana() + void cercaSemblants(String titol, String autor, int numero) + void cercaSemblants(String titol, String autor, int numero) + void eval(String opbool) + void modificaDocument(String titol, String autor, String contingutNou) + void setEliminaDocument(String titolD, String autorD) + void setModificaText(String titol, String autor) + void mostraModDoc() + void buscaAutors(String prefix) + void buscaTitolsAutor(String autor) + void viewContingutDocument(String titolD, String autorD) + void carregaDocuments (File carpeta) + void carregaDocument (File document) + void carregaTxt (File document)

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Controlador ConjuntDocuments
- InvertedFile IF - HashMap<String<HashMap<String,Document>>> cjtdocuments - set<String> all
+ ConjuntDocuments () + Vector<String> getBooleans() + Set<String> eval (String expbool) + Set<String> A (Vector<Set<String>>> expbool) + Set<String> P(Vector<Set<String>>> expbool) + Set<String> S (Vector<Set<String>>> expbool) + Vector<Set<String> exchangeVals (String boolexp) + Bool checkOpBool(String boolexpression) + String getbrackets(String boolexpression) + TreeMap <String, Float> trobaKSimilarCjt(String autorD, String titolD, int k) + Set<String> conjDocsConteSeqWords(List<String> words) + Set<String> conjDocConteNOWords(List<String> words) + Set<String> conjDocConteWords(List<String> words) + void eliminaDocument(String titolD, String autorD) + List<CustomPair> getTitolsAutors() + void modificaDocument(String titolD, String autorD, String contingut) + String consultaAutorsPrefix(String prefix) + String viewContingutDocument(String titolD, String autorD) + String ConsultaTitolsAutor(String autorD) + void CreaDocument(String titolD, String autorD, String contingut) + Bool existsFile(String autorD, String titolD) - Bool checkEqString(String prefix, String autor)

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Document
- autor: String - paraulesDoc: ArrayList<String> - contingut: Contingut - titol:String
+ Document(String autor, String titol, String contingut) + void modificaContingut(String contingut) + ArrayList <String> getTypesInDoc() + String viewContingut() - void updateTokens (String contingut) + ArrayList<String> readLines (File f)

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Contingut
- words: List<String> - void processaContingut(String[] paragraphs, int numP) - numParagraphs: List<String>
+ Contingut() + Contingut(String contingut) + String view()

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OpBooleana
- vector<String> historic_operacions
+ void putOperacio(String operacio) + vector<String> getOps

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Repr. Inter dels Documents (Inverted file)
- sim: Float - HashMap <String,fileTermData> docTerms - HashMap<String,wordData> index - numdocs: int
+ InvertedFile() + void printDocTerms() + void printIndex() + void printIndex() + boolean araSeq(String doc, List<String> words) + Set<String> getDocsSeqWord(List<String> words) + Set<String> getDocsNOTWord(List<String> word) + Set<String> getDocsWord(List<String> words) + Set<String> getConjTitAutor() + void updateIdf() + TreeMap<String,Float> trobaKSimilar(String autor, String titol, int k) + void docModified(String autor, String Titol, ArrayList<Strig> oldTokens, String contingut) + void docRemoved(String autor, String Titol, ArrayList<Strig> oldTokens) + void docAdded(String autor, String Titol, String contingut) + ArrayList<String> readLinesStopwords()

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Repr. Interna del Document (FileTermData)
- weigh: Struct(float,float) - HashMap<String,weight> terms
+ fileTermData() + set<String> getWordSet() + boolean containsWord(String word) + void printDocTermVector() + float getMagnitude() + void normalize() + float getWeight (String word) + void updateWeight(String word, float idf) + float getTfWord(String word) + void addWord(String word, float tf, float idf)

WordData
- globalFreq: int - HashMap<String<List<Integer>>> posicionsDoc - HashMap<String<List<Integer>>> posicionsDoc
+ void addToquen(String docName, List<Integer> posicion + List<Integer> getPositions(String doc) + boolean existWordInsideDoc(String document) + array ArrayList<String> getDocsContainingWord() + void eraseEntryDoc(String docName) + int numDocsApparences() + void printPostingList()