## QueryEngine OHUI Porter2 stemmer +changeWord(const string&): void +readInFiles: int +getStemmedWord(): string getSearch(): void -Word: string IndexHandler FileHandler +addDoc(const Document&): +updateIndex(const string&): void +addPersons(const Document&): void +queryTreeWords: void; string, int ,const int& +addOrgs(const Document&): void **Document** +outputResults(): void +getDocsFromTree(const string&): +FileName: string +getTop50Words(): void set<string> +text: string +size: int +aetNumWords(): int +uuid: string +getNumWords(): int +getTreeSize(): void +title: string +getTop50Words(): void +publishDate: string +getNumUniquePersons(): void +clear(): void +site: string +loadPersistenceFileIndexOrgs(): void +getNumUniqueOrgs(): void +url: string +loadPersistenceFileIndexWords(): void vector<string> people; +loadPersistenceFileIndexPersons():void vector<string> orgs; +setNumFiles(const int) +setMainWord(const string): void +savePersistenceFileIndexPersons(): void +savePersistenceFileIndexOrgs()void top15Sets(): void +savePersistenceFileIndexWords():void **Tree** +clear(): void -TreeIndex:AvlTree<IndexEntry> -PeopleTree:AvlTree<FilterEntry> +viewDoc(const int): void +AvlTree() -OrgsTree: AvlTree<FilterEntry> +clearTop15() void +AvlTree(const AvlTree &) -numWords: int +~AvlTree() +AvITree & operator=(const AvITree &) -i: IndexHandler +isEmpty() const: bool -q: QueryEngine +prettyPrintTree() const: void +makeEmpty(): void -intersect: set<string> -top15: set<docWithMetrc> +insert(const Comparable &): void +insertEntry(const IndexEntry &): void -numFiles: int +insertFilter(const FilterEntry &): void -mainWord: string +clearElements(): void +getEntryHelper(Comparable, AylNode\*) const; Comparable +getEntry(string) const: Comparable +getEntries() const: vector<Comparable> **FilterEntry** IndexEntry +getEntriesHelper(AvlNode\*, vector<>&)const:void +name: string +Word: string +insert(const Comparable &, AvlNode \*&): void +uuidSet: unordered\_set<string> +uuidMap: unordered map<string.int> +insertEntry(const IndexEntry &, AvINode \*&): void +insertFilter(const FilterEntry &, AvlNode \*&): void +FilterEntry(const string&,const string&) +makeEmpty(AvINode \*&): void +IndexEntry(string,const string&,int) +clone(AvlNode \*) const: AvlNode \* +IndexEntry() +bool operator< (const FilterEntry& s) const +IndexEntry(string): explicit +bool operator> (const FilterEntry& s) const prettyPrintTree(const string&,const AvINode\*,bool)const: void +bool operator== (const FilterEntry& s) const +height(AvlNode\*) const: int +operator< (const IndexEntry&)const:bool +balance(AvlNode\*&): void +friend std::ostream& operator<< +operator> (const IndexEntry&)const:bool +max(int,int) const: int (std::ostream&os, const FilterEntry&s) +operator== (const IndexEntry&)const:bool operator<< (ostream&,const IndexEntry&): friend ostream& +rotateWithLeftChild(AvlNode\*&):void +rotateWithRightChild(AvINode\*&):void +getDocNamesSet(): set<string> +doubleWithLeftChild(AvlNode\*&):void +getNumDocs()const:int +doubleWithRightChild(AvINode\*&):void +getWord(): string

+docNamesMapInsert(const string&,const int&):void