<<Java Class>> <<Java Package>> <<Java Interface>> SuperCommand **⊞** controller.commands controller.commands controller.commands SuperCommand(LatexEditorController, Versions Manager) execute():void SuperCommand(VersionsManager) SuperCommand(LatexEditorController) execute():void <<Java Class>> Change Versions Strategy Command ⊕ Choose Template DisableVersionsManagementCommand ⊕ AddLatexCommand **⊕** EditCommand @CreateCommand SaveCommand EnableVersionsManagementCommand **⊙** LoadEncryptedCommand ChangeCipherStrategyCommand **⊕** LoadCommand **G**OpeningWindow ⊕ CommandFactory controller.commands controller.commands controller.commands controller.commands controller.commands view controller.commands controller.commands controller.commands ... controller.commands controller.commands controller.commands controller.commands a latexCommands: HashMap<String,String> frame: JFrame frame: JFrame ©LoadEncryptedCommand(LatexEditorController,CipherManager,VersionsManager) ChangeCipherStrategyCommand(LatexEditorController,CipherManage/) SaveCommand(LatexEditorController) CommandFactory(VersionsManager,MainWindow,LatexEditgrController,CipherManager) EditCommand(LatexEditorController; VersionSManager) RollbackToPreviousVersionCommand(VersionsManager) ChangeVersionsStrategyCommand(VersionsManager) LoadCommand(VersionsManager,LatexEditorController) EnableVersionsManagementCommand(VersionsManager) previous: String execute():void execute():void execute():void execute():void main(String[]):void execute():void execute():void execute():void execute():void execute():void createCommand(String):Command execute():void OpeningWindow () ChooseTemplate(LatexEditorController,String) LatexCommandFilePath: String ■ diselectRadioButtons(JRadioButton,JRadioButton,JRadioButton,JRadioButton):void ■ initialize():void AddLatexCommand(VersionsManager,LatexEditorController) initialize().void dynamicallyCreateLatexCommands():void execute():void -fileLoadel 0..1 <<Java Class>> <<Java Class>> <<Java Class>> <<Java Class>> Stable Versions Strategy SaveEncryptedCommand ⊕ LatexEditorController utilities controller model.versioning controller.commands typeOfDocument: String versionID: String FileLoader() SaveEncryptedCommand(LatexEditorController,CipherManager) p filePathName: String StableVersionsStrategy() load(String):String execute():void putVersion(Document):void LatexEditorController() getVersion():Document dynamicallyCreateCommands(String):void setEntireHistory(List<Document>):void getVersionsManager():VersionsManager getEntireHistory():List<Document> getCipherManager():CipherManager removeVersion():void getMainWindow ():MainWindow getTypeOfDocument():String setTypeOfDocument(String):void \_-editorController getFilePathName():String setFilePathName(String):void getCurrentDocument():Document setCurrentDocument(Document):void -ciphiwanager 1 -fileSaver 0... #versionsManager\_\_\_ -versionsManageectonsManager 0..1 -documentManagermentManager -editorControllæin/Qndow -mainWindow Q...1 -ciphlofanhagen ger 0...1 -ciphlofanager 0... <<Java Class>> **⊚** MainWindow VersionsManager • Versions StrategyFactory File Saver DocumentManager • Volatile Versions Strategy model model.encry ption utilities model.versioning view model.versioning model.versioning frame: JFrame cipherStrategyType: String enabled: boolean VersionsStrategyFactory() FileSaver() editorPane: JEditorPane strategyType: String save(String,String):void putVersion(Document):void createStrategy(String):VersionsStrategy CipherManager() SoF TemplateFilePath: String currentCommand: String encryptString(String):String getVersion():Document setEntireHistory(List<Document>):void decryptString(String):String isEnabled():boolean getCaret():int DocumentManager() editContents(String):void getCipherStrategy():String dynamicallyCreateDocuments():void getPaneText():String disable():void removeVersion():void changeCipherStratgyTo(String):void setStrategyType(String):void getCurrentCommand():String MainWindow (LatexEditorController) saveContents():void enableStrategy():void startMainWindow():void. ■ initialize():void o changeStrategy():void update(String):void putVersion(Document):void · nollback():void -strategy 0...1-strategies /0... -ciphFactory @ <<Java Interface>> <<Java Class>> <<Java Class>> <<Java Class>> <<Java Class>> AtbashCipher Rot13Cipher Versions Strategy Document model.encry ption model.encry ption model model.versioning model.encry ption CIPHERKEY: int author: String <sup>C</sup>AtbashCipher() CipherFactory() putVersion(Document):void date: String encrypt(String):String createStrategy(String):CipherStrategy getVersion():Document Rot13Cipher() a copyright. String decrypt(String):String setEntireHistory(List<Document>):void encrypt(String):String. · versionID: String decrypt(String):String getEntireHistory():List<Document> a contents: String .... removeVersion():void Document(String, String, String, String, String) Document() getContents():String setContents(String):void o clone():Document o changeVersion():void getVersionID():String <<Java Interface>> Cipher Strategy model.encry ption encrypt(String):String decrypt(String):String