Password Keeper UMLS

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| <<interface>>  **Validate** | throws custom exceptions |
| *+ isValid() : boolean* |

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| **AbstractPassword** | min password length  max password length  returns true if password is valid |
| # password : String  # MIN\_SIZE : int  # MAX\_SIZE : int |
| *+ isValid() : boolean*  + setPassword(password: String) : void  + getPassword() : String  + toString() : String |

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| **SimplePassword** | creates new simple password  returns true if password is valid |
| + SimplePassword(password : String)  + isValid() : boolean |

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| **ComplexPassword** | creates a new ComplexPassword  (throws exception if invalid)  returns true if password is valid  (throws exception if invalid)  true if includes an uppercase letter  true if includes a number  true if includes a special character  true if includes a space |
| + ComplexPassword(password : String)  + setPassword(password : String) : void  + isValid() : boolean  + hasUpper() : boolean  + hasNumber() : boolean  + hasSpecialChar() : boolean  + hasSpaceChar() : boolean |

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| **HasSpaceException** |
| + HasSpaceException(message : String) |

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| **java.lang.Exception** |

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| **LongPasswordException** |
| + LongPasswordException(message : String) |

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| **NoSpecialCharException** |
| + NoSpecialCharException(message : String) |

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| **ShortPasswordException** |
| + ShortPasswordException(message : String) |

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| **NoNumberException** |
| + NoNumberException(message : String) |

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| **NoSpecialCharException** |
| + NoSpecialCharException(message : String) |

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| **NoUppercaseException** |
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| + NoUppercaseException(message : String) |

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| **Site** | Creates a Site with empty fields  Creates a Site with specified values  Returns true if a file contains data  Appends website data to user’s file |
| + website : String  + username : String  + password : SimplePassword  + notes : String |
| + Site()  + Site(website : String, username : String,  password : String, notes : String)  + setWebsite(website : String) : void + setUsername( username: String) : void  + setPassword(password : SimplePassword) : void  + setNotes(notes : String) : void  + doesDataExist(file : java.io.File) : boolean  + saveToFile(fileName : String) : void |