Database Management Module Classes

DMS-KFS

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| **Color** | **Description** |
| Red | This property or method is private |
| Blue | This property or method is protected |
| Green | This property or method is static |
| Black | This property or method is public |
| \*\* | This property is a const |
|  |  |

1. Database Manager

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| Property | Data Type | Description |
| First | YES | Between 3 and 17 character |

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| Method | Arguments | Return Type | Description | Possible Exceptions |
| requestService | Person arg1 | PersonAction | Returns Person Action which will be valid to conduct DB operations |  |
| requestService | String FLAG | MainAction | Returns Main Action which will be valid to conduct DB operations like signing up and signing in |  |
| requestService | Person arg1 | PersonAction | Returns Person Action which will be valid to conduct DB operations |  |
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| requestService | Person arg1 | PersonAction | Returns Person Action which will be valid to conduct DB operations |  |
| requestService | Person arg1 | PersonAction | Returns Person Action which will be valid to conduct DB operations |  |

1. Database Constants

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| Property | Data Type | Description |
| MAIN\_SERVICE | INT | FLAG |
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| Method | Arguments | Return Type | Description | Possible Exceptions |

1. Database Connection

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| Property | Data Type | Description |
| DB\_NAME\*\* | STRING | Self-descriptive |
| SERVER\*\* | STRING | Self-descriptive |
| PASSWORD\*\* | STRING | Self-descriptive |
| CONNECTION\_STRINGS\*\* | STRING | Self-descriptive |

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| Method | Arguments | Return Type | Description | Possible Exceptions |
| connect | - | DB Connection | Returns SQLSRV connection |  |

1. Action

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| Property | Data Type | Description |
| myPersonRef | Person | Object represent the client doing the action |
| databaseConnection | Database Connection | Ref to the database connection class to enable DB operations |

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| Method | Arguments | Return Type | Description | Possible Exceptions |

1. Main Action : Action

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| Property | Data Type | Description |

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| Method | Arguments | Return Type | Description | Possible Exceptions |
| getAllInstituions | - | Collections of Institutions | Returns All Institutions in the system |  |
| getAllCities | - | Collection of Cities | Returns All Registered Cities |  |

1. PersonAction: Action

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| Property | Data Type | Description |
| myPersonPermissions | PersonPermissions | Object represent the permissions of the client doing the action |

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| Method | Arguments | Return Type | Description | Possible  Exceptions |
| Constructor | Person user,  PersonPermissions permissions,DatabaseConnection db\_connection | - | Injects the user that doing the actions to myPersonRef and his corresponding permissions  to the myPersonPermissions  and puts db\_con to the super db\_con in Action |  |
| getPersonData | String Email | Person | Returns Person Object |  |
| getPersonFiles | String Email | collection of Files | Returns Collection of files That Person Has Created |  |
| activatePerson | String targetEmail | Boolean | Access control to whether activate this person or not depending on the permission |  |
| deactivatePerson | String targetEmail | Boolean | Access control to whether activate this person or not depending on the permission |  |
| getAllPersonsHierarchy | - | Tree-Like structure represents all persons | View The overall Structure of employees |  |
| getAllPersonInInstitution | Int InstitutionID | Tree-Like structure represents all persons | View The overall Structure of employees  in a specified institution |  |

1. FileAction : Action

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| Property | Data Type | Description |
| myFilePermissions | FilePermissions | Object represent the permissions of the client doing the action |

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| Method | Arguments | Return Type | Description | Possible Exceptions |
| createFile | File fileToCreate,  Folder parentFolder,  Person[] mentionedPersons,  FilePermission grantedPermissions | boolean | Return whether this file is created or not |  |
| getFile | String fileID | File |  |  |
| modifyFile | String oldFileID,  File newFile | bool |  |  |
| deleteFile | String fileID | bool |  |  |
| getFilesInFolder |  |  |  |  |

1. FolderAction: Action

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| --- | --- | --- |
| Property | Data Type | Description |
| myFolderPermissions | FolderPermissions | Object represent the permissions of the client doing the action |

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| Method | Arguments | Return Type | Description | Possible Exceptions |

1. Notification Action

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| Property | Data Type | Description |

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| Method | Arguments | Return Type | Description | Possible Exceptions |