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| **GitConnectionManager** | |
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| Method | getConnection() |
| Return Values | * None - if connection couldn't be established * Github object - if valid connection exists |
| Exceptions | * 401 - BadCredentialsException - invalid credentials are used to connect to GitHub. A message is logged, and None object is returned. * Any other exception will be raised for outer blocks to handle |
|  | |
| Method | isValidRepository(repositoryURL) |
| Return Values | * True - if the passed URL is a valid accessible GitHub repository * False - if the passed URL is not a valid accessible GitHub repository |
| Exceptions | * Every exception will be raised for outer blocks to handle |

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| **GitData** | |
|  | |
| Method | setConnection(gitHubConnection) |
| Return Values | * Void |
| Exceptions | * None |
|  | |
| Method | setGitHubRepository(gitHubRepository) |
| Return Values | * Void |
| Exceptions | * None |
|  | |
| Method | getGitHubRepository () |
| Return Values | * None - if no repository has been set * GitHub Repository currently set in the class |
| Exceptions | * None |
|  | |
| Method | getUserList ([gitHubRepository]) |
| Return Values | * Empty list – if data couldn’t be fetched * List of collaborators name in the gitHubRepository as a list of strings |
| Exceptions | * 404 - ObjectNotFoundException - invalid repository name is used to get data. A message is logged, and Empty list is returned. * Any other exception will be raised for outer blocks to handle |
|  | |
| Method | getCommitData ([gitHubRepository]) |
| Return Values | * Empty list – if data couldn’t be fetched * List of commit data in the gitHubRepository as a list of commitData objects |
| Exceptions | * 404 - ObjectNotFoundException - invalid repository name/branch name is used to get data. A message is logged, and Empty list is returned. * Any other exception will be raised for outer blocks to handle |