

nSite Central UML Diagrams

created: 12-8-08

modified: 12-8-08

Team DunKyan

version 1.0

Login

The Login class is responsible for allowing users to login by letting them supply a username and password, authenticating each user by cross-referencing the security database, and determining which application, the Reporting or Management, to instantiate for the user.

accountType

username

password

validate()

runApp()

ReportingApplication

The ReportingApplication class is responsible for displaying the interface for users to make, view, and subscribe to queries.

privileges

createQueryManager()

ManagementApplication

The ManagementApplication class is responsible for allowing a privileged user to not only access the ReportingApplication with full access, but also for allowing such a user to access the site manager and user manager interfaces.

Privileges

createQueryManager()

createSiteManager()

createUserManager()

SiteManager

The SiteManager class is responsible for managing connections to various client sites.

clientSite[]

addClientSite()

deleteClientSite()

modifyClientSite()

UserManager

The UserManager class is responsible for managing all users, including administrators.

user[]

addUser()

deleteUser()

modifyUser()

QueryManager
The QueryManager class is responsible for managing all queries made by users. If a user wants to view the results of a query, the QueryManager accesses the results of the desired query inside that particular class instance and displays them to the webpage.
queries[] subscriptionList
addQuery() deleteQuery() subscribeToQuery() unsubscribeToQuery()

ClientSite
The ClientSite class is responsible for storing all information about a particular client site.
Database
connectToDatabase() createDabatase() deleteDatabase() updateDatabase() // this is a default function for making any modifications to the database

User
The User class is responsible for storing information about a particular user.
securityProfile
addSecurityProfile() deleteSecurityProfile()

Query
The Query class is responsible for storing an SQL query made by a user. It passes itself to a mining agent, which returns the results of the SQL query back to the Query after querying all client sites. The query then stores the results of its SQL query. Every Query only contains one SQL query and will create only one mining agent.
SQLquery queryResults miningAgent
createMiningAgent() getQuery() setQuery() getResults() setResults()

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MiningAgent

The MiningAgent class is responsible for collecting and returning the results of a particular SQL query.

queryResults

destinationSite // a struct that contains all info necessary to connect to dest site

SecurityDB

The SecurityDB class is responsible for authentication.

securityProfiles[]

Database

The Database class is responsible for storing information on a client site.

ipAddress

portNumber

domainName

SecurityProfile

The SecurityProfile class is responsible for maintaining a default set of access level permissions for each security item.