CORD User Manual

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# Install

* Install Cord.Web into IIS as a .net4.5 Asp.Net application
* Create directory for local clones of repositories
* Crate config.xml in the created direcotrydirectory  
  <?xml version="1.0" encoding="utf-8"?>

<Config>

<Repositories>

</Repositories>

</Config>

* Configure repositories in the config.xml  
  <Repository>

<Name>uaca</Name> *- unique repository name*  
 <Url>[https://github.com/cepnox/perconik-uaca.git</Url](https://github.com/cepnox/perconik-uaca.git%3c/Url)> *- remote repository url*

<UserName/> *- optional user name (ignored if UseGitExeForUpdates=true)* <PasswordHash></PasswordHash> *optional password hash generated trough DPAPI   
with DataProtectionScope.CurrentUser (ignored if UseGitExeForUpdates=true)*

<UseGitExeForUpdates>false</UseGitExeForUpdates> - *whether to use Git.exe for   
 clone/fetch commands*

</Repository>

* Edit web.config of the Cord.web
  + <add key="BaseUrl" value="http://localhost:55714" /> - Used for link generation.
  + <setting name="LocalRepRootDir" serializeAs="String">  
     <value> c:\Work\GitTestRepos\ </value>  
    </setting> - Directory where should be local clones of remote repositories placed
  + <setting name="GitExe" serializeAs="String"> - Path to git.exe  
     <value>C:\pf\Git\bin\git.exe</value>  
    </setting>

# Web API

## Mehods

|  |  |
| --- | --- |
| Name | GetFile |
| Description | Get information about file |
| URI | GET <baseUrl>/api/file/{repo}/{commmit}/{\*path} |
| Input | * repo [string] * commit [string] * path [string] – must be path to file |
| Output | File |

|  |  |
| --- | --- |
| Name | GetFiles |
| Description | Search for files |
| URI | GET <baseUrl>/api/files/{repo}/{commmit}/{\*path}?filter |
| Input | * repo [string] * commit [string] * path [string] – optional * filter [FileSearchFilter] – as query string parameters (?pageIndex=..&pageSize=..) |
| Output | FileSearchResult |

|  |  |
| --- | --- |
| Name | GetFileBlob |
| Description | Get file content |
| URI | GET <baseUrl>/api/blob/{repo}/{commmit}/{\*path}?format={ast/text} |
| Input | * repo [string] * commit [string] * path [string] – must be path to file * format [string] – ast or text |
| Output | HttpResponseMessage containing one of   * text/plain [string] * application/json [AstParseResultDto] |

|  |  |
| --- | --- |
| Name | GetRepository |
| Description | Get information about repository |
| URI | GET <baseUrl>/api/repo/{repo} |
| Input | * repo [string] |
| Output | Repository |

|  |  |
| --- | --- |
| Name | GetRepositories |
| Description | Search for repositories |
| URI | GET <baseUrl>/api/repos?filter |
| Input | * filter [RepoSearchFilter] – as query string parameters |
| Output | RepoSearchResult |

|  |  |
| --- | --- |
| Name | UpdateRepository |
| Description | Update local repository (pull) |
| URI | POST <baseUrl>/api/repo/update/{repo} |
| Input | * repo [string] |
| Output | HttpResponseMessage (e.g. status code OK) |

|  |  |
| --- | --- |
| Name | GetBranches |
| Description | Search for branches |
| URI | GET <baseUrl>/api/branches/{repo}?filter |
| Input | * repo [string] * filter [BranchSearchFilter] – as query string parameters |
| Output | BranchSearchResult |

|  |  |
| --- | --- |
| Name | GetCommit |
| Description | Get information about commit |
| URI | GET <baseUrl>/api/commit/{repo}/{commit} |
| Input | * repo [string] * commit [string] – commit hash |
| Output | Commit |

|  |  |
| --- | --- |
| Name | GetHeadCommit |
| Description | Get information about head commit (the latest commit in the repository branch) |
| URI | GET <baseUrl>/commit/{repo}/{branch}/head |
| Input | * repo [string] * branch [string] |
| Output | Commit |

|  |  |
| --- | --- |
| Name | GetCommits |
| Description | Search for commits |
| URI | GET <baseUrl>/api/commits/{repo}/{branch}/{\*path}?filter |
| Input | * repo [string] * branch [string] * path [string] – optional * filter [CommitSearchFilter] – as query string parameters |
| Output | CommitSearchResult |

|  |  |
| --- | --- |
| Name | GetChanges |
| Description | Get list of files changed in given commit |
| URI | GET <baseUrl> api/changes/{repo}/{commmit}?filter |
| Input | * repo [string] * commit [string] * filter [ChangeSearchFilter] – as query string parameters |
| Output | ChangeSearchResult |

## Data Classes

|  |  |
| --- | --- |
| Name | SearchFilter |
| Description | Contains common query string parameters for search methods |
| Properties | * pageIndex [int] * pageSize [int] |

|  |  |
| --- | --- |
| Name | SearchResult |
| Description | Contains common properties for search mehods results |
| Properties | * pageIndex [int] * pageSize [int] * links [list of Link] |

|  |  |
| --- | --- |
| Name | Link |
| Description | Represents HATEOAS link |
| Properties | * rel [string] – type of relation (next, previous, ...) * href [string] – URL to related source (e.g. link to next results page) |

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| --- | --- |
| Name | FileAncestor |
| Description | Contains information about file ancestor |
| Properties | * url [string] * lastCommit [string] * versionUri [string] |

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| --- | --- |
| Name | FileSearchFilter : SearchFilter |
| Description | Contains query string parameters for file search |
| Properties | * suffixes [string] – file suffixes separated by pipes (|) * getLastCommit [bool] * pageIndex [int] * pageSize [int] |

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| --- | --- |
| Name | FileSearchResult : SearchResult |
| Description | Contains result of file search |
| Properties | * items [list of File] |

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| --- | --- |
| Name | AstParseResultDto |
| Description | Contains file content as AST |
| Properties | * parseErrors [list of AstParseErrorDto] * syntaxTree [AstNodeDto] |

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| --- | --- |
| Name | AstParseErrorDto |
| Description | Contains information about AST parse error |
| Properties | * message [string] * level [string] * startLine [int] * endLine [int] * startColumn [int] * endColumn [int] |

|  |  |
| --- | --- |
| Name | AstNodeDto |
| Description | Contains information about AST node |
| Properties | * nodeType [string] * name [string] * startLine [int] * endLine [int] * startIndex [int] * endIndex [int] * commentStartLine [int?] * commentEndLine [int?] * modifier [string] * returnType [ReturnType]   + typeName [string]   + modifier [string] * parameters [Parameter]   + typeName [string]   + modifier [string]   + name [string] * baseTypes [list of BaseType]   + typeName [string]   + modifier [string] * childNodes [list of AstNodeDto] |

|  |  |
| --- | --- |
| Name | Repository |
| Description | Contains information about repository |
| Properties | * name [string] * url [string] * lastUpdateTime [DateTime?] – time of the last repository update call |

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| --- | --- |
| Name | RepoSearchFilter : SearchFilter |
| Description | Contains query string parameters for repository search |
| Properties |  |

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| --- | --- |
| Name | RepoSearchResult : SearchResult |
| Description | Contains result of repository search |
| Properties | * items [list of Repository] |

|  |  |
| --- | --- |
| Name | Branch |
| Description | Contains information about branch |
| Properties | * name [string] * head [string] – branch head (the latest commit in the repository branch) |

|  |  |
| --- | --- |
| Name | BranchSearchFilter : SearchFilter |
| Description | Contains query string parameters for branch search |
| Properties |  |

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| --- | --- |
| Name | BranchSearchResult : SearchResult |
| Description | Contains result of branch search |
| Properties | * items [list of Branch] |

|  |  |
| --- | --- |
| Name | Commit |
| Description | Contains information about commit |
| Properties | * hash [string] * message [string] * commitDate [DateTime] * ancestor1 [string] * ancestor2 [string] * author [Author]   + mail [string]   + name [string] |

|  |  |
| --- | --- |
| Name | CommitSearchFilter : SearchFilter |
| Description | Contains query string parameters for commit search |
| Properties | * sort [CommitSortOrder] – commitDate or topo * asc [bool] * author [string] * since [DateTime?] * until [DateTime?] |

|  |  |
| --- | --- |
| Name | CommitSearchResult : SearchResult |
| Description | Contains result of commit search |
| Properties | * items [list of Commit] |

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| --- | --- |
| Name | Change |
| Description | Contains information about file change |
| Properties | * url [string] * ancestor1ChangeType [ChangeType?] * ancestor2ChangeType [ChangeType?] |

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| --- | --- |
| Name | ChangeType |
| Description | Type of file change |
| Values | * unchanged * add * delete * modify * rename (unused) * copy (unused) |

|  |  |
| --- | --- |
| Name | ChangeSearchFilter : SearchFilter |
| Description | Contains query string parameters for change search |
| Properties |  |

|  |  |
| --- | --- |
| Name | ChangeSearchResult : SearchResult |
| Description | Contains result of change search |
| Properties | * items [list of Change] |