**GetGame**

Description: Give all the information stored about a game defined by an Id(taken by PreviewGames)

Errors: ERR\_DOCUMENT\_BAD\_GAME\_ID: bad format of the given id

ERR\_DOCUMENT\_GAME\_NOT\_FOUND

ERR\_NETWORK\_UNREACHABLE

**AddGame**

Description: Insert a new object Game into the dataset

Errors: ERR\_DOCUMENT\_BAD\_GAME\_ID: bad format of the given id or id already setted

ERR\_NETWORK\_UNREACHABLE

**IncrementGameViews**

Description: increment the views of a game by 1

Errors: ERR\_DOCUMENT\_BAD\_GAME\_ID: bad format of the given id

ERR\_DOCUMENT\_GAME\_NOT\_FOUND

ERR\_DOCUMENT\_UNKNOWN: for some reason the document has already the given update

ERR\_NETWORK\_UNREACHABLE

**VoteGame**

Description: put a new vote for the game updating the rating and ratingCount fields

Errors: ERR\_DOCUMENT\_BAD\_GAME\_ID: bad format of the given id

ERR\_DOCUMENT\_GAME\_NOT\_FOUND

ERR\_DOCUMENT\_INVALID\_VOTE: vote must be into [0,5]

ERR\_DOCUMENT\_UNKNOWN: for some reason the document has already the given update

ERR\_NETWORK\_UNREACHABLE

**GetGameCount**

Description: gives the number of games stored into the dataset

Errors: ERR\_NETWORK\_UNREACHABLE

**getGenres**

Description: gives all the possible games generes used into the dataset

Errors: ERR\_NETWORK\_PARTIAL\_UNREACHABLE: there could be some data into the response

**GetMostViewedPreview**

Description: gives the preview of the game with more views

Errors: ERR\_DOCUMENT\_GAME\_NOT\_FOUND

ERR\_NETWORK\_UNREACHABLE

**GetMostPopularPreview**

Description: gives the preview of the game with higher rating

Errors: ERR\_DOCUMENT\_GAME\_NOT\_FOUND

ERR\_NETWORK\_UNREACHABLE

**GetMostViewedPreviews**

Description: gives a DataNavigator to scroll all the games sorted by viewsCount

DataNavigator Extraction Errors: ERR\_NETWORK\_PARTIAL\_UNREACHABLE

**GetMostLikedPreviews**

Description: gives a DataNavigator to scroll all the games sorted by rating

DataNavigator Extraction Errors: ERR\_NETWORK\_PARTIAL\_UNREACHABLE

**GetMostRecentPreviews**

Description: gives a DataNavigator to scroll all the games sorted by releaseDate

DataNavigator Extraction Errors: ERR\_NETWORK\_PARTIAL\_UNREACHABLE

**SearchGamesPreviews**

Description: gives a DataNavigator to scroll all the games with a title or a generes matching the given string

DataNavigator Extraction Errors: ERR\_NETWORK\_PARTIAL\_UNREACHABLE

**AddGameDescription**

Description: for scraping, insert a description into the game class

Errors: ERR\_DOCUMENT\_BAD\_GAME\_ID: bad format of the given id

ERR\_DOCUMENT\_GAME\_NOT\_FOUND

ERR\_DOCUMENT\_UNKNOWN: the game has already a description

ERR\_NETWORK\_UNREACHABLE

**DeleteGame**

Description: delete a game from the dataset

Errors: ERR\_DOCUMENT\_BAD\_GAME\_ID: bad format of the given id

ERR\_DOCUMENT\_GAME\_NOT\_FOUND

ERR\_NETWORK\_UNREACHABLE

**MongoConnection.statistics**

**EnableCaching:** some statistics require very long time to be computed(4-8s). With EnableCaching you force the MongoStatistics to cache all the statistics results. It requires 32s after that all statistics will be loaded in 1ms

**GetMaxRatedGameByYear**

Description: gives for each year the game with the max rating field

Errors: ERR\_NETWORK\_UNREACHABLE

Timing: 4s

**GetMaxRatedGameByGen**

Description: gives for each generes the game with the max rating field

Errors: ERR\_NETWORK\_UNREACHABLE

Timing: 2s

**GetMaxViewedGameByYear**

Description: gives for each year the game with the higher views Count

Errors: ERR\_NETWORK\_UNREACHABLE

Timing: 8s

**GetMaxViewedGameByGen**

Description: gives for each genere the game with the higher views Count

Errors: ERR\_NETWORK\_UNREACHABLE

Timing: 7s

**GetGamesCountByYear**

Description: gives the number of games for each year

Errors: ERR\_NETWORK\_UNREACHABLE

Timing: 2s

**GetGamesCountByGen**

Description: gives the number of games for each genere

Errors: ERR\_NETWORK\_UNREACHABLE

Timing: 1s

**GetGamesCountByYearGen**

Description: gives the number of games for each year group by genere

Errors: ERR\_NETWORK\_UNREACHABLE

Timing: 2s

**GetViewsCountByYear**

Description: gives the number of views for each year

Errors: ERR\_NETWORK\_UNREACHABLE

Timing: 2s

**GetViewsCountByGen**

Description: gives the number of views for each genere

Errors: ERR\_NETWORK\_UNREACHABLE

Timing: 1s

**GetViewsCountByYearGen**

Description: gives the number of games for each year group by generes

Errors: ERR\_NETWORK\_UNREACHABLE

Timing: 2s

**GetRatingsCountByYear**

Description: gives the number of ratings committed for each year

Errors: ERR\_NETWORK\_UNREACHABLE

Timing: 2s

**GetRatingsCountByGen**

Description: gives the number of ratings committed for each genere

Errors: ERR\_NETWORK\_UNREACHABLE

Timing: 1s

**GetRatingsCountByYearGen**

Description: gives the number of ratings committed for each year group by genere

Errors: ERR\_NETWORK\_UNREACHABLE

Timing: 1s

**FOR MORE INFO ABOUT STATISTICS MANAGEMENT LOOK INTO MONGOSTATISTICS.STATSTEST() WHERE EACH FUNCTION IS USED AND THE RESULT MANAGED**