

com.novetta.clavin.gazetteer

The diagram illustrates the relationships and method calls between four main classes: **BasicGeoName**, **LazyAncestryGeoName**, **GeoName**, and **BasicGeoNameTest**.

BasicGeoName Class

- Methods:** getAdmin3Code, getAncestryKey, getFeatureCode, getLongitude, getParentId, getPopulation, getPreferredName, getPrimaryCountryCode, buildAncestryKey, getAdmin4Code, getAsciiName, getS GazetteerRecord, getModificationDate, equals, getAdminLevel, getHighestElevationCode, getHighestElevationCountryCode, getName, getAdmin1Code, getAdministrativeCountryCodes, getElevation, getGeonameID, getParent, getAdmin2Code, getAlternateNames, getFeatureClass, getLatitude, getParentAncestryKey.
- Relationships:**
 - getAdmin3Code, getAncestryKey, getFeatureCode, getLongitude, getParentId, getPopulation, getPreferredName, getPrimaryCountryCode all call `none`.
 - buildAncestryKey calls `name`.
 - getAdmin4Code, getAsciiName, getS GazetteerRecord, getModificationDate all call `name`.
 - equals calls `name`.
 - getAdminLevel, getHighestElevationCode, getHighestElevationCountryCode all call `name`.
 - getName calls `name`.
 - getAdmin1Code, getAdministrativeCountryCodes, getElevation, getGeonameID, getParent all call `name`.
 - getAdmin2Code, getAlternateNames, getFeatureClass, getLatitude, getParentAncestryKey all call `name`.

LazyAncestryGeoName Class

- Methods:** ., equals, getAdmin1Code, getAdmin2Code, getAdmin3Code, getAdmin4Code, getAdministrativeCountryCodes, getAlternateNames, getAncestryKey, getAsciiName, getGazetteerRecord, getHighestElevationCode, getHighestElevationCountryCode, getGeonameID, getLatitude, getLongitude, getElevation, getFeatureClass, getName, getPrimaryCountryCode, hashCode, isAncestorOf, getFeatureCode, getParent, isAncestryObserved, isTopLevelAdministration, getGazetteerRecord, getParentAncestryKey, getTimezone, isDescendantOf, setParent.
- Relationships:**
 - ., equals, getAdmin1Code, getAdmin2Code, getAdmin3Code, getAdmin4Code, getAdministrativeCountryCodes, getAlternateNames, getAncestryKey, getAsciiName, getGazetteerRecord, getHighestElevationCode, getHighestElevationCountryCode, getGeonameID, getLatitude, getLongitude, getElevation, getFeatureClass, getName, getPrimaryCountryCode, hashCode, isAncestorOf, getFeatureCode, getParent, isAncestryObserved, isTopLevelAdministration, getGazetteerRecord, getParentAncestryKey, getTimezone, isDescendantOf, setParent all call `none`.

GeoName Class

- Methods:** getAdmin1Code, getAdmin2Code, getAdmin3Code, getAdmin4Code, getAdministrativeCountryCodes, getAlternateNames, getAncestryKey, getAsciiName, getFeatureClass, getFeatureCode, getFeatureRecord, getHighestElevationCode, getHighestElevationCountryCode, getParentId, getPreferredName, getName, getPrimaryCountryCode, getTimezone, isAncestorOf, getParent, isDescendantOf, setParent.
- Relationships:**
 - getAdmin1Code, getAdmin2Code, getAdmin3Code, getAdmin4Code, getAdministrativeCountryCodes, getAlternateNames, getAncestryKey, getAsciiName, getFeatureClass, getFeatureCode, getFeatureRecord, getHighestElevationCode, getHighestElevationCountryCode, getParentId, getPreferredName, getName, getPrimaryCountryCode, getTimezone, isAncestorOf, getParent, isDescendantOf, setParent all call `none`.

BasicGeoNameTest Class

- Methods:** ., setUp, testAllAttributes, testTopLevelAdministration, testAdministrativeCountryCodes, testAncestryKeys, testTerritoryAncestryKeys, testParseExceptions, testTopLevelTerritory.
- Relationships:**
 - . calls `none`.
 - setUp calls `junit:junit`.
 - testAllAttributes calls `junit:junit`.
 - testTopLevelAdministration calls `junit:junit`.
 - testAdministrativeCountryCodes calls `junit:junit`.
 - testAncestryKeys calls `junit:junit`.
 - testTerritoryAncestryKeys calls `junit:junit`.
 - testParseExceptions calls `junit:junit`.
 - testTopLevelTerritory calls `junit:junit`.

FeatureCodeBuilder Class

- Method:** buildFeatureCode.
- Relationships:** buildFeatureCode calls `name`.

com.novetta.clavin.gazetteer.query

[illegible]

com.novetta.clavin.resolver.multipart

The diagram illustrates the relationships between various classes in the `com.novetta.clavin` library. The classes are organized into several main sections, each representing a different package or module. The colors used for the boxes represent different categories or types of classes.

- MatchedLocation** (Yellow): Contains `MatchedLocation`, `getMatchCount`, `getMatches`, `equals`, `getMatch`, `hashCode`, `toString`.
- ResolvedMultiPartLocation** (Green): Contains `ResolvedMultiPartLocation`, `getCountry`, `getState`, `hashCode`, `toString`, `getCity`.
- DefaultScorer** (Green): Contains `DefaultScorer`, `getScore`, `getScore`, `getScore`, `getScore`.
- MultiPartLocationResolver** (Blue): Contains `MultiPartLocationResolver`, `getParameters`, `getParameters`, `getParameters`, `getParameters`.
- SearchResult** (Green): Contains `SearchResult`, `getSearchLocation`, `getSearchLocation`.
- Scorer** (Green): Contains `Scorer`.
- MultipartLocationName** (Green): Contains `MultipartLocationName`, `getCity`, `getState`, `hashCode`, `equals`, `getCountry`, `toString`.
- MultipartLocationResolverTest** (Blue): Contains `MultipartLocationResolverTest`, `setUpClass`, `tearDownClass`, `parameters`, `verifyCity`, `verifyLocation`.
- com.novetta.clavin.extractor** (Orange): Contains `AdaptNlpExtractor`, `extractLocationNames`, `Entity`, `setConfidence`, `setEndPos`, `setType`.
- LocationOccurrence** (Green): Contains `LocationOccurrence`, `getText`, `hashCode`, `equals`.
- ApacheExtractor** (Yellow): Contains `ApacheExtractor`, `extractLocationNames`.
- ApacheExtractorTest** (Blue): Contains `ApacheExtractorTest`, `testNullInput`.
- LocationOccurrenceTest** (Blue): Contains `LocationOccurrenceTest`, `testEquals`, `testHashCode`.
- AdaptNlpExtractorTest** (Blue): Contains `AdaptNlpExtractorTest`, `testConfidence`.
- LocationExtractor** (Green): Contains `LocationExtractor`, `extractLocationNames`.
- com.novetta.clavin.index** (Orange): Contains `IndexDirectoryBuilder`, `main`, `getOptions`, `indexGeoName`, `loadAlternativeNames`, `logUnresolved`, `resolveAncestry`, `buildIndex`, `printHelp`, `resolveUnresolved`.
- BinarySimilarity** (Purple): Contains `BinarySimilarity`, `idf`, `tf`, `tfidf`.
- WhitespaceLowerCaseTokenizer** (Cyan): Contains `WhitespaceLowerCaseTokenizer`, `normalize`.
- BinarySimilarityTest** (Purple): Contains `BinarySimilarityTest`, `testTF`.
- WhitespaceLowerCaseAnalyzer** (Purple): Contains `WhitespaceLowerCaseAnalyzer`.
- com.novetta.clavin.util** (Orange): Contains `DamerauLevenshteinTest`, `Null`, `ListUtilsTest`, `GeoParser`, `AllTestSuite`, `DamerauLevenshtein`, `InfiniteCharArray`, `ListUtils`, `TextUtils`, `WorkflowDemo`.