

com.novetta.clavin.gazetteer

The diagram illustrates the relationships between various Java classes in the GeoNames API. The classes are arranged in a grid-like structure, with lines indicating dependencies or relationships. The classes are:

- BasicGeoName**: The central class, with many other classes depending on it.
- LazyAncestryGeoName**: A class that depends on BasicGeoName and has many other classes depending on it.
- GeoName**: A class that depends on BasicGeoName and has many other classes depending on it.
- BasicGeoNameTest**: A test class that depends on BasicGeoName.
- LazyAncestryGeoNameTest**: A test class that depends on LazyAncestryGeoName.
- FeatureCodeBuilder**: A utility class that depends on BasicGeoName.

The diagram shows a complex web of dependencies, with many classes having multiple dependencies and being depended upon by multiple other classes. The classes are arranged in a grid-like structure, with lines indicating dependencies or relationships. The classes are:

- BasicGeoName**: The central class, with many other classes depending on it.
- LazyAncestryGeoName**: A class that depends on BasicGeoName and has many other classes depending on it.
- GeoName**: A class that depends on BasicGeoName and has many other classes depending on it.
- BasicGeoNameTest**: A test class that depends on BasicGeoName.
- LazyAncestryGeoNameTest**: A test class that depends on LazyAncestryGeoName.
- FeatureCodeBuilder**: A utility class that depends on BasicGeoName.

com.novetta.clavin.gazetteer.query

The diagram illustrates the relationships between various Java classes, organized into colored blocks representing different packages or modules.

### LuceneGazetteerTest

- setUp** (blue box): Methods include `setUp` (unit:unit), `testBorderCases` (unit:unit), `testLoadAncestry` (unit:unit), `testFilterDups` (unit:unit), `testGeoName` (unit:unit), `testFuzzyMode` (unit:unit), `testGeoName` (unit:unit), `testFuzzyMode` (unit:unit), `testGeoName` (unit:unit), `testFuzzyMode` (unit:unit).

### QueryBuilder

- build** (green box): Methods include `build` (none), `filterDups` (none), `fuzzyMode` (none), `includeHistorical` (none), `clearFeatureCodes` (none), `location` (none), `removeAdminCodes` (none), `removeCountryCodes` (none), `clearParentIds` (none), `maxResults` (none), `removeCityCodes` (none), `removeCountryCodes` (none), `featureCodes` (none), `parentIds` (none), `toString` (none).

### LuceneGazetteer

- executeQuery** (orange box): Methods include `executeQuery` (org.apache.lucene: lucene-core), `getClosestLocations` (org.apache.lucene: lucene-core), `getGeoName` (org.apache.lucene: lucene-core), `resolveParents` (org.apache.lucene: lucene-core), `buildFilters` (org.apache.lucene: lucene-core), `loadAncestry` (org.apache.lucene: lucene-core), `sanitizeQueryText` (org.apache.lucene: lucene-core).

### GazetteerQuery

- build** (green box): Methods include `build` (none), `addClause` (none), `getTopLevelBuilder` (none), `getGeoName` (none), `getFuzzyMode` (none), `getGeoName` (none), `getFuzzyMode` (none), `getGeoName` (none), `getFuzzyMode` (none).

### UniqueFuzzyScoringRewrite

- build** (purple box): Methods include `build` (none), `addClause` (none), `getTopLevelBuilder` (none), `getGeoName` (none), `getFuzzyMode` (none), `getGeoName` (none), `getFuzzyMode` (none), `getGeoName` (none), `getFuzzyMode` (none).

### Gazetteer

- build** (green box): Methods include `build` (none), `addClause` (none), `getTopLevelBuilder` (none), `getGeoName` (none), `getFuzzyMode` (none), `getGeoName` (none), `getFuzzyMode` (none), `getGeoName` (none), `getFuzzyMode` (none).

### com.novetta.clavin.resolver

#### ClavinLocationResolverHeuristicsTest

- setUp** (blue box): Methods include `setUp` (unit:unit), `testBorderCases` (unit:unit), `testHeuristicsDC` (unit:unit), `testHeuristicsWA` (unit:unit), `testHeuristicsCA` (unit:unit), `testHeuristicsTX` (unit:unit), `testHeuristicsNY` (unit:unit), `testHeuristicsIL` (unit:unit), `testHeuristicsIN` (unit:unit), `testHeuristicsOH` (unit:unit), `testHeuristicsMI` (unit:unit), `testHeuristicsIA` (unit:unit), `testHeuristicsNE` (unit:unit), `testHeuristicsKS` (unit:unit), `testHeuristicsOK` (unit:unit), `testHeuristicsNM` (unit:unit), `testHeuristicsAZ` (unit:unit), `testHeuristicsCO` (unit:unit), `testHeuristicsUT` (unit:unit), `testHeuristicsNV` (unit:unit), `testHeuristicsID` (unit:unit), `testHeuristicsMT` (unit:unit), `testHeuristicsWY` (unit:unit), `testHeuristicsND` (unit:unit), `testHeuristicsSD` (unit:unit), `testHeuristicsNE` (unit:unit), `testHeuristicsKS` (unit:unit), `testHeuristicsOK` (unit:unit), `testHeuristicsNM` (unit:unit), `testHeuristicsAZ` (unit:unit), `testHeuristicsCO` (unit:unit), `testHeuristicsUT` (unit:unit), `testHeuristicsNV` (unit:unit), `testHeuristicsID` (unit:unit), `testHeuristicsMT` (unit:unit), `testHeuristicsWY` (unit:unit), `testHeuristicsND` (unit:unit), `testHeuristicsSD` (unit:unit).

#### ResolvedLocation

- build** (green box): Methods include `build` (none), `getGeoName` (none), `getFuzzyMode` (none), `getGeoName` (none), `getFuzzyMode` (none), `getGeoName` (none), `getFuzzyMode` (none), `getGeoName` (none), `getFuzzyMode` (none).

#### ClavinLocationResolver

- build** (green box): Methods include `build` (none), `getGeoName` (none), `getFuzzyMode` (none), `getGeoName` (none), `getFuzzyMode` (none), `getGeoName` (none), `getFuzzyMode` (none), `getGeoName` (none), `getFuzzyMode` (none).

#### ClavinLocationResolverTest

- setUp** (blue box): Methods include `setUp` (unit:unit), `testBorderCases` (unit:unit), `testHeuristicsDC` (unit:unit), `testHeuristicsWA` (unit:unit), `testHeuristicsCA` (unit:unit), `testHeuristicsTX` (unit:unit), `testHeuristicsNY` (unit:unit), `testHeuristicsIL` (unit:unit), `testHeuristicsIN` (unit:unit), `testHeuristicsOH` (unit:unit), `testHeuristicsMI` (unit:unit), `testHeuristicsIA` (unit:unit), `testHeuristicsNE` (unit:unit), `testHeuristicsKS` (unit:unit), `testHeuristicsOK` (unit:unit), `testHeuristicsNM` (unit:unit), `testHeuristicsAZ` (unit:unit), `testHeuristicsCO` (unit:unit), `testHeuristicsUT` (unit:unit), `testHeuristicsNV` (unit:unit), `testHeuristicsID` (unit:unit), `testHeuristicsMT` (unit:unit), `testHeuristicsWY` (unit:unit), `testHeuristicsND` (unit:unit), `testHeuristicsSD` (unit:unit).

#### LocationResolver

- build** (green box): Methods include `build` (none), `getGeoName` (none), `getFuzzyMode` (none), `getGeoName` (none), `getFuzzyMode` (none), `getGeoName` (none), `getFuzzyMode` (none), `getGeoName` (none), `getFuzzyMode` (none).

com.novetta.clavin.resolver.multipart

The diagram illustrates the class structure and dependencies of the `com.novetta.clavin` library. The classes are organized into four main packages, each represented by a colored box:

- com.novetta.clavin.extractor (Orange):** Contains classes like `AdaptNlpExtractor`, `Entity`, `LocationOccurrence`, and `TextBody`.
- com.novetta.clavin.index (Light Orange):** Contains classes like `IndexDirectoryBuilder`, `BinarySimilarity`, `WhitespaceLowerCaseTokenizer`, and `WhitespaceLowerCaseAnalyzer`.
- com.novetta.clavin.util (Light Green):** Contains utility classes like `DamerauLevenshteinTest`, `Null`, `ListUtilsTest`, `DamerauLevenshtein`, `InfiniteCharArray`, `ListUtils`, `TextUtils`, and `WorkflowDemo`.
- com.novetta.clavin (Purple):** Contains the main library classes like `MatchedLocation`, `ResolvedMultiPartLocation`, `DefaultScorer`, `MultiPartLocationResolverTest`, `SearchResult`, `Scorer`, `MultiPartLocationResolver`, and `GeoParser`.

Each class box shows its methods and dependencies on other classes, represented by smaller boxes. The diagram uses a color-coding scheme to group related classes and show their interdependencies.