repository

Apache Atlas Repository

Repository   Apache Atlas

```
repository/
├── pom.xml              # Maven
└── src/
    ├── main/java/       #
    └── test/            #
```

(`src/main/java/org/apache/atlas/`)

`GraphTransactionAdvisor.java`	AOP
`GraphTransactionInterceptor.java`	

`discovery/` -

`AtlasDiscoveryService.java`	API
`AtlasLineageService.java`	API
`EntityDiscoveryService.java`	DSL
`EntityLineageService.java`	
`SearchContext.java`	
`SearchProcessor.java`	

`EntitySearchProcessor.java`	
`ClassificationSearchProcessor.java`	2 / /
`FreeTextSearchProcessor.java`	
`FullTextSearchProcessor.java`	
`TermSearchProcessor.java`	
`RelationshipSearchProcessor.java`	
`GraphIndexQueryBuilder.java`	
`SearchAggregator.java`	
`SearchAggregatorImpl.java`	
`SearchIndexer.java`	
`SuggestionsProvider.java`	
`SuggestionsProviderImpl.java`	

`entitytransform/` -

/

`Action.java`	
`Condition.java`	
`AtlasEntityTransformer.java`	
`BaseEntityHandler.java`	
`EntityAttribute.java`	
`TransformationConstants.java`	
`TransformerContext.java`	
`HdfsPathEntityHandler.java`	HDFS
`HiveDatabaseEntityHandler.java`	Hive
`HiveTableEntityHandler.java`	Hive
`HiveColumnEntityHandler.java`	Hive
`HiveStorageDescriptorEntityHandler.java`	Hive

`glossary/` -

`GlossaryService.java`	CRUD
`GlossaryUtils.java`	
`GlossaryTermUtils.java`	
`GlossaryCategoryUtils.java`	

`listener/` -

`TypeDefChangeListener.java`	
`EntityChangeListenerV2.java`	(V2)
`ChangedTypeDefs.java`	

`query/` - DSL

Atlas DSL (Domain Specific Language)

`AtlasDSL.java`	DSL	DSL
`DSLVisitor.java`	DSL	
`GremlinClause.java`	Gremlin	
`GremlinClauseList.java`	Gremlin	
`GremlinQuery.java`	Gremlin	
`GremlinQueryComposer.java`	Gremlin	DSL Gremlin
`IdentifierHelper.java`		
`Lookup.java`		

RegistryBasedLookup.java	
QueryParams.java	
SelectClauseComposer.java	SELECT

query/antlr4/ - ANTLR4

AtlasDSLLexer.g4	DSL
AtlasDSLParser.g4	DSL
AtlasDSLLexer.java	
AtlasDSLParser.java	
AtlasDSLParserVisitor.java	
AtlasDSLParserBaseVisitor.java	
AtlasDSLParserListener.java	

query/executors/ -

DSLQueryExecutor.java	DSL
TraversalBasedExecutor.java	
ScriptEngineBasedExecutor.java	
GremlinClauseToTraversalTranslator.java	Gremlin
SelectClauseProjections.java	SELECT

repository/ -

IndexCreationException.java	
IndexException.java	
RepositoryException.java	

repository/audit/ -

EntityAuditRepository.java	
EntityAuditListener.java	(V1)
EntityAuditListenerV2.java	(V2)
AtlasAuditService.java	
AtlasAuditReductionService.java	
AbstractStorageBasedAuditRepository.java	
HBaseBasedAuditRepository.java	HBase
CassandraBasedAuditRepository.java	Cassandra
InMemoryEntityAuditRepository.java	( )
NoopEntityAuditRepository.java	
TypeDefAuditListener.java	
rdbms/RdbmsBasedAuditRepository.java	RDBMS

repository/converters/ -

API

AtlasFormatConverter.java	
AtlasFormatConverters.java	
AtlasAbstractFormatConverter.java	
AtlasInstanceConverter.java	V1 V2
AtlasEntityFormatConverter.java	
AtlasStructFormatConverter.java	
AtlasClassificationFormatConverter.java	
AtlasArrayFormatConverter.java	
AtlasMapFormatConverter.java	Map
AtlasEnumFormatConverter.java	
AtlasPrimitiveFormatConverter.java	

`AtlasObjectIdConverter.java`	ID
`TypeConverterUtil.java`	

repository/graph/ -

`AtlasGraphProvider.java`	
`IAtlasGraphProvider.java`	
`GraphHelper.java`	CRUD
`GraphBackedSearchIndexer.java`	
`AtlasEdgeLabel.java`	
`FullTextMapperV2.java`	
`IFullTextMapper.java`	
`IndexChangeListener.java`	
`IndexRecoveryService.java`	
`SolrIndexHelper.java`	Solr

repository/impexp/ -

`ExportService.java`	ZIP
`ImportService.java`	ZIP
`AsyncImportService.java`	
`AsyncImporter.java`	
`ImportTransforms.java`	
`ImportTransformer.java`	
`ImportTransformsShaper.java`	
`ImportTypeDefProcessor.java`	
`ExportTypeProcessor.java`	
`ZipSource.java`	ZIP

ZipSourceDirect.java	ZIP
ZipSourceWithBackingDirectory.java	ZIP
ZipSink.java	ZIP
ZipExportFileNames.java	ZIP
AuditsWriter.java	
AtlasServerService.java	Atlas
ExportImportAuditService.java	
MigrationProgressService.java	
EntitiesExtractor.java	
VertexExtractor.java	
RelationshipAttributesExtractor.java	
IncrementalExportEntityProvider.java	
StartEntityFetchByExportRequest.java	
TableReplicationRequestProcessor.java	
TypeAttributeDifference.java	
HdfsPathEntityCreator.java	HDFS
ExtractStrategy.java	

repository/migration/ -

DataMigrationService.java	
DataMigrationStatusService.java	
ZipFileMigrationImporter.java	ZIP
FileWatcher.java	

repository/ogm/ -

ORM

DataTransferObject.java	

`AbstractDataTransferObject.java`	DTO
`DTORegistry.java`	DTO
`DataAccess.java`	DTO CRUD
`AtlasAuditEntryDTO.java`	DTO
`AtlasServerDTO.java`	DTO
`ExportImportAuditEntryDTO.java`	DTO

`repository/ogm/glossary/` - DTO

`AbstractGlossaryDTO.java`	DTO
`AtlasGlossaryDTO.java`	DTO
`AtlasGlossaryTermDTO.java`	DTO
`AtlasGlossaryCategoryDTO.java`	DTO

`repository/ogm/impexp/` - DTO

`AtlasAsyncImportRequestDTO.java`	DTO

`repository/ogm/metrics/` - DTO

`AtlasMetricsStatDTO.java`	DTO

`repository/ogm/profiles/` - DTO

`AtlasUserProfileDTO.java`	DTO
`AtlasSavedSearchDTO.java`	DTO

`repository/patches/` -

`AtlasPatchManager.java`	

`AtlasPatchRegistry.java`	
`AtlasPatchService.java`	
`AtlasPatchHandler.java`	
`PatchContext.java`	
`ConcurrentPatchProcessor.java`	
`EdgePatchProcessor.java`	
`UniqueAttributePatch.java`	
`SuperTypesUpdatePatch.java`	
`IndexConsistencyPatch.java`	
`ReIndexPatch.java`	
`ClassificationTextPatch.java`	
`ProcessNamePatch.java`	
`ProcessImpalaNamePatch.java`	Impala
`RelationshipTypeNamePatch.java`	
`AddMandatoryAttributesPatch.java`	
`FreeTextRequestHandlerPatch.java`	
`SuggestionsRequestHandlerPatch.java`	
`ReplaceHugeSparkProcessAttributesPatch.java`	Spark
`UpdateCompositeIndexStatusPatch.java`	

`repository/store/` -

`repository/store/bootstrap/`

`AtlasTypeDefStoreInitializer.java`	

`repository/store/graph/` -

`AtlasTypeDefGraphStore.java`	
`AtlasDefStore.java`	
`AtlasEntityStore.java`	

`AtlasRelationshipStore.java`	
`BulkImporter.java`	
`EntityGraphDiscovery.java`	
`EntityGraphDiscoveryContext.java`	
`EntityResolver.java`	
`EntityCorrelationStore.java`	

`repository/store/graph/v1/` - V1

`DeleteHandlerV1.java`	
`DeleteHandlerDelegate.java`	
`HardDeleteHandlerV1.java`	
`SoftDeleteHandlerV1.java`	

`repository/store/graph/v2/` - V2 (　　　)

`AtlasEntityStoreV2.java`	V2　　　　CRUD
`AtlasRelationshipStoreV2.java`	V2
`AtlasTypeDefGraphStoreV2.java`	V2
`AtlasAbstractDefStoreV2.java`	
`AtlasEntityDefStoreV2.java`	
`AtlasClassificationDefStoreV2.java`	
`AtlasEnumDefStoreV2.java`	
`AtlasStructDefStoreV2.java`	
`AtlasRelationshipDefStoreV2.java`	
`AtlasBusinessMetadataDefStoreV2.java`	
`EntityGraphMapper.java`	
`EntityGraphRetriever.java`	
`AtlasEntityGraphDiscoveryV2.java`	V2
`AtlasEntityChangeNotifier.java`	

`IAtlasEntityChangeNotifier.java`	
`AtlasEntityComparator.java`	
`AtlasEntityStream.java`	
`AtlasEntityStreamForImport.java`	
`AtlasGraphUtilsV2.java`	V2
`EntityMutationContext.java`	
`AttributeMutationContext.java`	
`EntityImportStream.java`	
`EntityStream.java`	
`InMemoryMapEntityStream.java`	Map
`IDBasedEntityResolver.java`	ID
`UniqAttrBasedEntityResolver.java`	
`ClassificationAssociator.java`	
`BulkImporterImpl.java`	
`EntityStateChecker.java`	
`AsyncImportTaskExecutor.java`	

`repository/store/graph/v2/asyncimport/`

`ImportTaskListener.java`	

`repository/store/graph/v2/bulkimport/` -

`ImportStrategy.java`	
`RegularImport.java`	
`MigrationImport.java`	
`EntityChangeNotifierNop.java`	
`FullTextMapperV2Nop.java`	
`pc/EntityConsumer.java`	
`pc/EntityConsumerBuilder.java`	

pc/EntityCreationManager.java	

repository/store/graph/v2/tasks/ -

ClassificationTask.java	
ClassificationPropagationTasks.java	
ClassificationPropagateTaskFactory.java	
AuditReductionTask.java	
AuditReductionEntityRetrievalTask.java	
AuditReductionTaskFactory.java	
searchdownload/SearchResultDownloadTask.java	
searchdownload/SearchResultDownloadTaskFactory.java	

repository/userprofile/ -

UserProfileService.java	

repository/util/ -

FilterUtil.java	
UniqueList.java	

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services/ -

MetricsService.java	
PurgeService.java	

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store/ -

`AtlasTypeDefStore.java`	

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tasks/ -

`AbstractTask.java`	
`TaskManagement.java`	
`TaskExecutor.java`	
`TaskRegistry.java`	
`TaskFactory.java`	
`TaskFactoryRegistry.java`	

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util/ -

`AtlasGremlinQueryProvider.java`	Gremlin
`AtlasGremlin2QueryProvider.java`	Gremlin 2.x
`AtlasGremlin3QueryProvider.java`	Gremlin 3.x
`AtlasRepositoryConfiguration.java`	
`AtlasMetricJVMUtil.java`	JVM
`AtlasMetricsCounter.java`	
`AtlasMetricsUtil.java`	
`SearchPredicateUtil.java`	
`SearchTracker.java`	
`AttributeValueMap.java`	
`IndexedInstance.java`	
`FileUtils.java`	
`BeanUtil.java`	Bean

(src/test/)

src/test/java/org/apache/atlas/

`discovery/`	
`entitytransform/`	
`glossary/`	
`patches/`	
`pc/`	
`query/`	DSL
`repository/audit/`	
`repository/graph/`	
`repository/impexp/`	
`repository/migration/`	
`repository/store/graph/v1/`	V1
`repository/store/graph/v2/`	V2
`repository/tagpropagation/`	
`repository/userprofile/`	
`services/`	
`tasks/`	
`utils/`	

src/test/resources/

- : `application.conf` , `cassandra_test.yml`
- **JSON** : `json/`
- **ZIP** : ZIP
- **CSV/Excel** :
- **Solr** : `solr/`

1.   :

2.   :   DSL

3.   :

4.   : ZIP

5.   :

6.   :

7.   :

8.   :