**Epipog**

**Specification**

**Collection Class Family**

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# 1. Class

The collection object is the definition for specifying a named collection. A collection consists of a data store representation and optionally a schema and one or more indices.

## 1.1 Fields

The base class defines the following fields:

private String collectionName; // Name of the Collection

This field is the name of the collection.

private DataStore store; // Data Store for collection

This field is the data store representation for the collection.

private Schema schema; // Schema associated with the collection

This field, if non-null, is the schema associated with the collection.

privateArrayList<Index> indices; // Index(s) for collection

This field, if non-null, are the indices for the collection.

## 1.2 Methods

This class contains the following implemented methods:

***Constructor***

public Collection( String collectionName );

The constructor for instantiating a collection object. The parameter collectionName is the name of the collection.

***Accessors (Getter/Setter)***

public void Schema( Schema schema );  
public Schema Schema();

These methods set and get, respectively, the schema associated with the collection.

public void Store( DataStore store );

This method sets the data store for the collection. If the data store is already set, an exception is thrown.

public DataStore Store();

This method gets the data store gets the data store assigned to the collection.

public void Parser( Parse parse );

This method sets the parser for parsing input from a file.

public Parse Parser();

This method gets the parser for parsing input from a file.

public void DeleteCollection();

This method deletes a collection from storage. If an error occurs, a CollectionException is thrown.

***I/O***

public void Open() throws CollectionException;

This method opens the underlying storage bound to the collection. If an error occurs, a CollectionException is thrown.

public void Close() throws CollectionException;

This method closes the underlying storage bound to the collection. If an error occurs, a CollectionException is thrown.

***Query***

public void InsertC( ArrayList<String> values )

This method inserts a row of data into the data store, where the data is aligned with the columns in the schema assigned to the data store. If an error occurs, an exception is thrown.

public void Parse()

This method parses an input file and inserts corresponding data as rows into the data store. If an error occurs an exception is thrown.