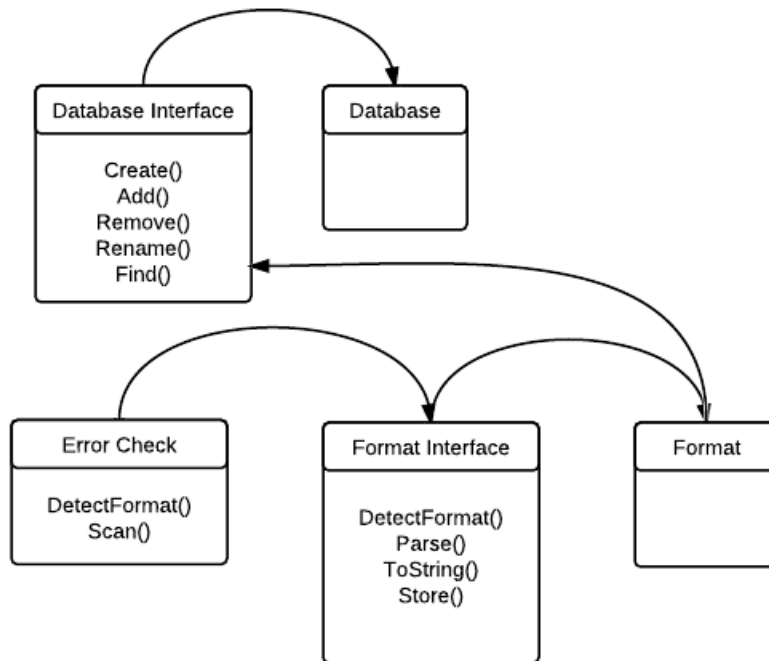


# Marine Biology Data Geographic Information System Design

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## Error Checking:

The error check object checks for problems with the file provided.

DetectFormat() will use the Format interface to detect the format. If it can't detect the format then the file is not supported.

Scan() will use the Parse() function to ready the file for inclusion in the database and discard any invalid data.

## Format Interface:

The format interface defines functions that all formats will share so the main program can use one function for any supported format.

DetectFormat() will set what format is to be used for further functions. It will return an error if no format can be found.

Parse() will read the file into memory in such a way as to prepare it to be transferred to the database.

ToString() will output the specified data as a string so it can be displayed or saved to a file.

Store() will store the parsed data into the database or save it to a file.

Format:

The format object will implement the methods in the format interface in a manner befitting its own format. There will be many format objects, one for each supported format.

Database Interface:

The database interface will define functions for use in transferring data to and from the database.

Create() makes a new database.

Add() adds data to the already existing database.

Remove() removes data from the database.

Rename() changes the name of the database.

Find() finds data in the database.