**CS 3307 Assignment 1 Spec Sheet**

**File Manager**

Fields:

* String **Name**: name of file given by constructor
* String/mode\_t **Type**:
* off\_t **Size**:
* String **StringOwner**:
* uid\_t **NumericOwner**
* String **StringGroup**:
* uid\_t **NumericGroup:**
* mode\_t /String **Permissions**:
* timespec **Access** **Time**:
* timespec **Modification** **Time**:
* timespec **Status** **Change** **Time**:
* blksize\_t **Block** **size**:
* vector **Children**:
* errno **Error** **Number**:

Methods:

* **Constructor:**
  + Parameters**:** (string) name of the file.
  + Return: void
* **Destructor:**
  + Parameters**:** null
  + Return: void
* **Dump:**
  + Parameters**:** file stream
  + Return: error code
* **Rename:**
  + Parameters**:** (string) new name of file
  + Return: error code
* **Compare:** 
  + Parameters**:** file object
  + Return: int- 0 the same, -1 not the same
* **Expand:**
  + Parameters**:** null
  + Return: error code
* **Getters for all attributes. (2 for error, 1 for error number and 1 for error string)**
* **Setter for name attribute (calls rename)**