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| class  CatalogItem |
| name: String  price: double |
| getName(); String  getPrice(); double  setName(String);  setPrice(double);  compareTo(CatalogItem); int |

extends

extends

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| class  DVD |
| director: String  year: int  dvdCode: int  price: double |
| getDirector(); String  getYear(); int  getDVDCode(); int  getPrice(); double  setDirector(String);  setYear(int);  setDVDCode(int);  toString(); String |

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| class  Book |
| author: String  ISBN: int  discount: double |
| getAuthor(); String  getISBN(); int  setAuthor(String);  setISBN(int);  getPrice(); double  toString(); String |

extends

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| class  AudioBook |
| runningTime: double  discount: double |
| getRunTime(); double  setRunTime(double);  getPrice(); double  toString(); String |

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| interface  Acceptable |
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| isNonEmptyString(String): boolean  isPositive(int); boolean  isPositiveInput(double); boolean |

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| Class  Validator |
| makeNotStatic: double  makeNonStatic: String  makeNoStatic: int |
| setNotStatic(double);  setNonStatic(String);  setNoStatic(int);  getNotStatic(); double  getNonStatic(); String  getNoStatic(); int  isNonEmptyString(String): boolean  isPositive(int); boolean  isPositiveInput(double); boolean |

Implements

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| Class  TermProject |
| name: String  price: double  author: String  ISBN: int  runningTime: double  director: String  year: int  dvdCode: int  itemType: String  index: int  matchName: String  validInput: boolean  exists: boolean  inCart: Boolean  option: int  userOption: int  managerExists: boolean |
| options(); int  menuA(); int  menuB(); int  checkCredentials(); boolean  createBackupFile(ArrayList<Book>, ArrayList<DVD>);  bookExists(ArrayList<Book>, int); boolean  dvdExists(ArrayList<DVD>, int); boolean  findBook(ArrayList<Book>, int); int  findDVD(ArrayList<DVD>, int); int  displayBooks(ArrayList<Book>);  displayDVDs(ArrayList<DVD>);  displayBooks(ArrayList<Book>, String);  displayDVDs(ArrayList<DVD>, String);  displayCart(ArrayList<CatalogItem>);  checkout(ArrayLIst<CatalogItem>); |