IT 306 Project notes

* Max 1000 users
* Max 1000 library resources
* Database textfile holds library books and videos
* Database for employees
* No database for resource category or the authors
* Login Screen
  + Option 1
    - Login as an existing user
    - Create new user
  + Option 2
    - Create new admin
* Types of users
  + Admin
  + Employee
  + User
* User
  + Login
  + Search for books
    - Title
    - Author
    - Resource ID
  + Status of material
  + Sort by ID number
  + Filter by author
  + Category
* Employee inherits User
  + Modify availability
* Admin inherits Employee
  + Add and delete employees
* Author
  + First Name
  + Last Name
  + Author ID
* Resource Category
  + What was given is stupid. Use a fuckin array
* Resource
  + Book or vhs
  + Id number
  + Resource category
  + Name
  + Resource type
  + Author
  + Year published
  + Status
    - Checked out
    - Available
  + Checked out by
    - User
* Basic User
  + First name
  + Last name
  + Userneame
  + Password
  + userID
  + email
  + mailing
  + field for resource
    - only one thing at a time
  + gui
    - display resources
    - sort by ID
    - sort by author
    - sort by category
* Employee inherits user
  + Can update resource fields
    - Change a book’s name, change the status of a book
* Admin inherits Employee
  + Delete, modify, add employee
  + Can’t delete an employee if they have a book checkedout
* Validations
  + Proper email format
  + Address should be more than 5 characters and contains letters and numbers
  + Username must be unique
  + Author name and ID should be unique
  + Unique resource category is fucking dumb. No thanks
  + Password needs 4 letters and 4 numbers
  + All ID has to be unique