* What goal will your website be designed to achieve?
  + The website will be similar to the way GoodReads operates where a user can keep track of books they want to read, have read, favorited, sorted by genre, and any other way they would want to sort. This is done by creating “bookshelves” which are lists of books.
* What kind of users will visit? (demographics)
  + Middle school students – summer reading, research, projects, hobby
  + High school students – summer reading, research, projects, hobby
  + College students – research, projects, hobby
  + Reading hobbyists (adults) - hobby
  + Book club members – hobby
* What data are you going to use? (API) What data do you want it to contain?
  + Google Books API <https://www.googleapis.com/books/v1/volumes>
  + OAuth or API Key
    - API calls – responds in JSON
      * Search: single parameter “q” which searches for volumes that contain that query string
        + GET request
        + Does not require authentication
        + Can use search fields: intitle, inauthor, inpublisher, subject, isbn, lccn, oclc
        + Can filter results
      * Volume ID: retrieve specific volume
        + GET request
        + Does not require authentication
      * Bookshelf ID: retrieve specific bookshelf
        + GET request
        + Does not require authentication for public bookshelves
        + Retrieve list of volumes on a particular bookshelf

Specify user ID and bookshelf ID

* + - * + Add/remove books from bookshelf POST request
        + Clear bookshelf POST request
      * User ID
        + Retrieve from selfLink in a Bookshelf resource retrieved with an authenticated request
* Outline:
  + Database Schema
    - Models
      * Books
        + Contains: id, title, author, description, genre
      * Shelf
        + Contains: id, title, description
      * Bookshelf
        + Contains: shelf id, book id, user\_id
      * User
        + Contains: id, username, password, email, first\_name, last\_name, review
      * Review
        + Contains: id, username, content
  + Potential issues with API
    - Authentication with login could be tricky, Google account holders will have an easy time using this
    - If API ever decides not to work, show 404 page, come back later
  + Secure sensitive information
    - Login/logout needs to be secure
    - User information should only be viewed when user is logged in
    - Review forms (hidden token)
  + Functionality
    - The user will be able to:
      * Create an account
      * Login/logout
      * Search
      * Create a bookshelf
        + A user can create multiple bookshelves to organize books into whatever categories they want to
        + Add a book to one of the lists:

Mark as read

Want to read

Currently reading

These could potentially just be another bookshelf a user can create, might not need to have them premade

* + - * + Remove a book from those lists
        + Sort books in list: alphabetical, author, genre
        + Submit a review
        + Star rating (1-5) as part of review
        + Favorite a book (with a heart icon – toggle function)

Create separate list that has favorites

* + User Flow
    - Create Account using Email (create username/password) -> Login -> View Account
    - Login -> create bookshelf -> add books -> view bookshelf
    - Login -> view bookshelf list -> select bookshelf -> add books -> view bookshelf
    - Login -> view bookshelf list -> select bookshelf -> remove books -> view bookshelf
    - Login -> view bookshelf list -> select bookshelf -> delete bookshelf -> view bookshelf list
    - Search for book using filters -> view results -> select book -> view book information -> add book to bookshelf
    - Search for book using filters -> view results -> select book -> view book information -> write a review -> select star rating
    - Search for book using filters -> view results -> select book -> view book information -> select add to favorites
    - Login -> view bookshelf list -> select bookshelf -> select book -> write a review
    - Login -> view bookshelf list -> select bookshelf -> select book -> select star rating
    - Login -> view bookshelf list -> select bookshelf -> select book -> select as favorite
    - \*\* user can logout after each action or stay logged in

Extra features beyond CRUD, stretch goals

* + - Favorite lists
    - Submitting reviews