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User Stories, Conceptual Classes Worksheet & UML Diagram

Description: StoryNook is a virtual library that allows you to lend your own books out and borrow books (as well as other literature & audio) from the people in your neighborhood. To use StoryNook a group of neighbors download the app, create an account and use the camera on their phone to scan the barcode of the books in their personal libraries. These books then become listed in the “Neighborhood” as available to borrow. The app has a search function that allows you to search for a specific title and see who has the book available for borrowing. If the book isn’t available you can add it to your wish list and the app will notify you when there is a copy of that book available. When a book is borrowed from a neighbor it will show up on your “library card” in the app. All books borrowed have a default check out length of 2 weeks, with the ability to extend your check out if needed through the app. Any books that you have lent out will appear on the “Lending” section of the app and will show you the first name, last name and contact (phone, email & StoryNook username) as well as expected return date.

Use Cases:

As a borrower I want to search for available literature to borrow in my neighborhood.

As a book lender, I want to know where my books are and when they will be returned.

As a book lender, I want to add a book to the neighborhood.

As a book lender, I want to remove a book from the neighborhood.

As a book lender, I want a list of who is borrowing my books.

As a borrower, I want to create a wishlist and be notified when books on the list become available.

Business transactions: Checkout(checkOutId, neighborLender, neighborBorrower, checkOutDate, dueDate)

Transaction line items: titl

Product or service related to a transaction: Book(bookId, title, authorId, ISBN, genreId)

Roles of people: Person(personId, firstName, lastName)

Neighbor(neighborId, userName, phoneNum, email)

Author(authorId, authorFName, authorLName)

Place of transaction or service: Neighborhood(neighborhoodId, street, city, state, zip)

Noteworthy events:

Physical objects: Book(bookId, title, authorId, ISBN, genreId)

Descriptions of things: Genre(genreId, genreName)

Catalogs:

Containers of other things: Neighborhood(neighborhoodId, street, city, state, zip)

Things in a container: Book()