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Scenario

Employees at a rare bookstore need to be able to access a system where they can store the inventory for the store. The system should be accessible from either a laptop or a tablet.  Employees should be able to add, update, and delete books from the system.  Not all employees should be able to delete books from the system.

Assignment

Use the Design Thinking philosophy to design the front end of a web application intended to address their needs.

**Stage 1 - Empathise**:

* **Activity**
  + ~~Gather into groups to interview your instructor and TAs who will act as the clients.~~
* **Deliverable**
  + ~~Create a document that contains the information that you gathered from the interview of the client.Text

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  + Text, letter

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  + Text, letter

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  + Create a document which has profiles of the different types of users who will interact with the product.
  + Give each profile a name.

Text

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* Answer the following questions for each of those types of users
  + What tasks do they currently perform?

***Each employee and manager tracks the sale of rare books and delete the book once it is no longer available****.*

* What are the hardest / most frustrating aspects of their current system?

***The current system does not limit access and abilities, which makes it hard to track when something has been deleted purposely or accidentally.***

* When do they typically perform their tasks?

***Deletions, additions and updates happen each time a book is added to the inventory, updated quantities (if more than one book) or sold*.**

* How would this change improve their feelings about completing their tasks?

***Adding defined access will help management streamline their***

***process which will allow the other  managers to know who may***

***have deleted sold items in a faster timeline****.*

* How do their tasks, feelings, or responsibilities differ from the other profiles?

***Managers and employees are currently able to complete the exact same duties. The update will give the managers the extra duty of being able to delete books from the inventory list.***

* What are the set of skills that they currently possess?

***Employees must know how to use the Excel program currently.***

**Stage 2 - Define the problem**:

* **Activity**
  + Organize the information that you have from the interview and the profiles that you've created in the Empathise stage.
* **Deliverable**
  + Begin the problem statements with a verb, such as *Create*, *Define*,  or *Adapt.*
  + The statements should address the problems from the perspective of the user, not the business.
  + The problem should be specific enough to have an identifiable way to determine if it has been solved.
  + The problem statement must address the needs of one or more of the different profiles created in the Empathise stage.  Use the names of the profile(s) in the problem statement.

***Create a manager and employee profile that will allow roles to be more streamlined around the concern of deletion of inventory and amount of select rare books remaining available as users purchase books.***

**Stage 3 - Ideate**:

* **Activity**
  + Conduct a brainstorming session with other members of the class.
  + Add ideas that occur to you based on your understanding of the problems.

* **Deliverable**
  + Create a document that contains these ideas.
  + Give each idea a short name or phrase to make it easier to discuss using that name.

***\*Overhaul of inventory management***

***\*Tracking of deleted inventory needed- deletion only by managers***

***Manager issued a pin number to delete inventory***

***\*Categorize inventory by Genre***

***\*Incorporate more employee devices-more accessibility within store***

***\* Create Scanning barcode feature or dropdown box- for inventory***

***\* Alerts for all other managers when books have been deleted from***

***inventory***

***\*Add automatic logout for all employees after 1 minute***

***\* Recommending that sold books be added to a separate sheet just for***

***the purpose of knowing past inventory or history***

Stage 4 - Prototype:

* **Activity**
  + You will go through the prototype stage multiple times.
  + The first time through do A, next time through do B, next time through do C.
    - A - Draw out the screens and interactions that you think represent the ideas from the Ideate stage; indicate which ideas are being used by indicating the *name* from the ideate stage*.*

* B - Create HTML pages which represent the ideas from the drawings.
* C - Add CSS and alter any html to better represent the ideas from the drawings and B.
* **Deliverable**
  + A - Take a clear photo of the screen drawings produced in the activity.

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* B - The HTML pages created in the above activity for B.
* C - The HTML pages with CSS created in the above activity for C.

Stage 5 - Test

* **Activity**
  + You will go through the test stage multiple times.
  + The first time through do A, next time through do B, next time through do C.
    - A - Allow a classmate or multiple classmates to test your prototype from A and provide you with feedback.
    - B - Allow a classmate or multiple classmates to test your prototype from B and provide you with feedback.
    - C- Allow a classmate or multiple classmates to test your prototype from C and provide you with feedback.
* **Deliverable**
  + A - Create a document that contains the feedback from the results of the test in activity A.
  + B - Create a document that contains the feedback from the results of the test in activity B.
  + C - Create a document that contains the feedback from the results of the test in activity C.

You should have gone through each of the stages as shown below:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| A | Empathise | Define | Ideate | Prototype | Test |
| B |  |  |  | Prototype | Test |
| C |  |  |  | Prototype | Test |