

Design Thinking

Emphasize

Inventory distortion results in an estimated \$1.1 trillion loss worldwide

Human error is the leading problem in 46% of warehouses

Only 18% of small businesses use any inventory management software

Small business problems to address:

- Using the wrong tools
- Not checking inventory often
- Overlooking shrinkage
- Mismanaging stock levels
- Not adjusting prices



User Profiles

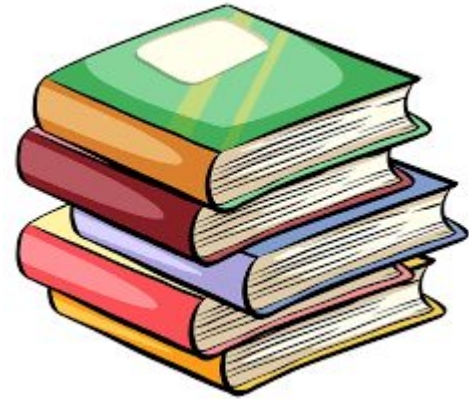
1. Employee Profile
 - a. **CEO** - All permissions
 - b. **Manager** - All permissions
 - c. **Employee** - Most permissions except for deleting a book

Define the Problem

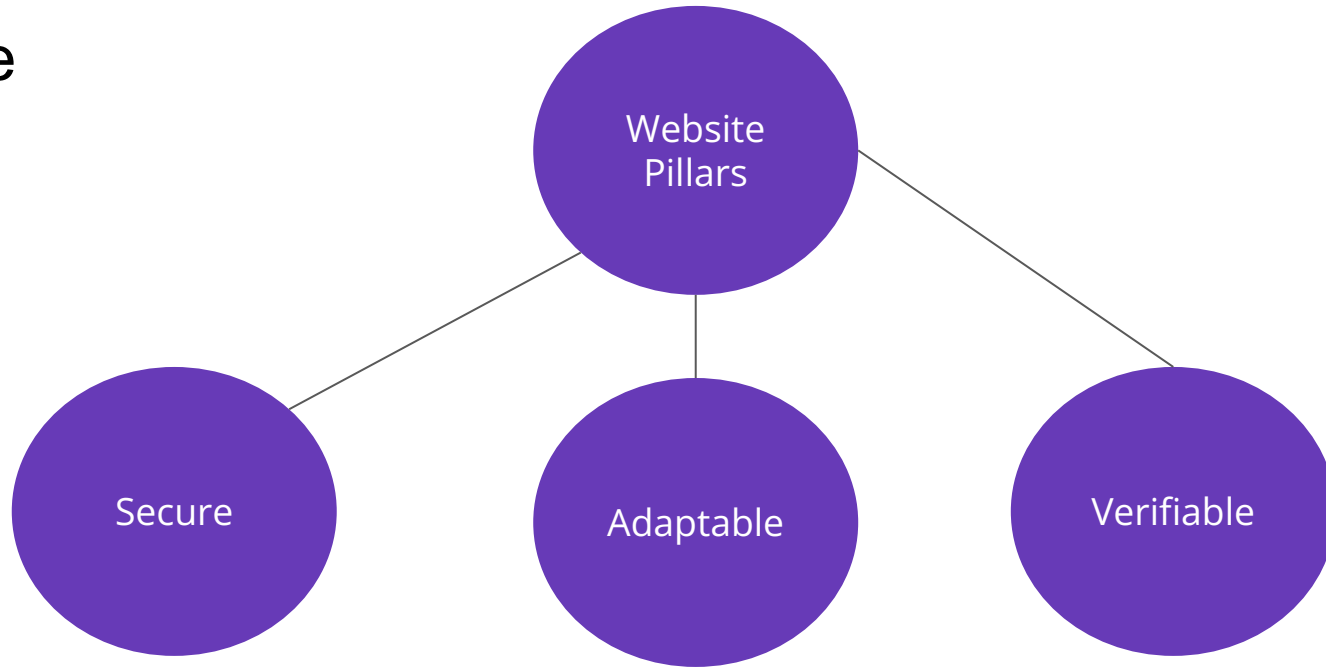
The current system has the inherent issues caused by using a spreadsheet for large and complex datasets like company inventory.

Excel is the wrong tool to use for inventory management, which complicates the process of checking inventory often and allows for employees to miss lower levels of product.

Excel sheets lack security and easily adaptability. Furthermore, multiple users cannot edit a file concurrently, which limits productivity in the workplace.



Ideate



Prototype - Signup and login Screens

Login Screen

Welcome to Rare Bookstore

please Login Below

Email

- validate the input is a proper email

Password

- validate the password is at least 7 characters

Sign Up Screen

Welcome to Rare Bookstore

please enter your Email and Password

Email

Password

Prototype - Book Inventory Record

Create new

Book cover	Title	Author	Year	Edition	Condition	Genre	
JPG	How Europe Und	Walter Rodney	1963		Great	Nonfiction	<div>ModifyDelete</div>
JPG	Alienation and Fr	Frantz Fanon	1962		Poor	Nonfiction	<div>ModifyDelete</div>
JPG	Women, Race, a	Angela Davis	1980		Bad	Nonfiction	<div>ModifyDelete</div>
JPG	Are Prisons Obsc	Angela Davis	1989		Bad	Nonfiction	<div>ModifyDelete</div>

Use Cases for Testing

1. Employee wants to add a new record for “How Europe Underdeveloped Africa” by Walter Rodney
2. CEO wants to delete “Alienation and Freedom” by Frantz Fanon
3. Two employees want to log in at the same time
4. Manager wants to check inventory level of “Women, Race, and Class” by Angela Davis
5. CEO wants to be able to add “Are Prisons Obsolete?” By Angela Davis but also delete a book with the fiction genre.