

CS546-WS Group 51 Project Pitch Presentation

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Our Project – Building Inventory System

For our final project, we're developing a Building Inventory System (BIS). BIS is an inventory management system which emphasizes location based organization. Users of BIS can keep track of their belongings/inventory with nested organization of 4 different layers in the following order: Buildings, Rooms, Containers, and finally Items. Users will be able to add, edit, and remove items that they put in rooms and/or containers. Users will then be able to share their building inventories by adding other users as viewers and/or managers (editors), or by setting their building to "public", allowing all users to find their building on the browse page.

Through our development of BIS, our main goals are to make an inventory management system that's easy to learn and use, is easily accessible and lightweight, and fulfills the basic needs of both individuals and businesses.

Our Features – Core

- **Login & User Profile**
- **Dedicated Pages for Buildings, Rooms, Containers, and Items**
 - For users to view/edit/remove the current data of a given building, room, container, or item (These pages will also have a search functionality to find something by name).
- **Add/Creation**
 - Will allow for users to add new buildings, rooms, containers, and items
- **Collaboration/Sharing**
 - Building owners will be able give specific users the permission to view and/or manage (edit) their building.
- **Browse Buildings**
 - Users will be able to browse public buildings and save/favorite buildings for future access
- **Statistics**
 - Will show basic records of items over time (such as quantity and value).

Our Features – Extra

- **Google Map View**
 - If a building is given an address, then a Google Maps Embed will be displayed of the building.
- **Low on Item Alerts**
 - Will allow the user to give an item a said quantity that qualifies as “too low” for an item. If the quantity is set to below that value, all listed viewers and managers of the building will be notified that the item’s quantity is below the threshold.
- **Pictures for Items**
 - Will allow owners and managers to upload photos for a given item.
- **Exporting of Building Data (into JSON)**
 - Will allow owners and managers to download a JSON representation of a building.

Our Demographic

- **Businesses w/ Fluctuating Inventories**
 - An example would be a restaurant that needs to keep track of their kitchenware and stock of ingredients closely
 - Another example would be apparel stores/clothing brands that are required to keep accurate inventory/stock of their products
- **Businesses w/ Showcased Inventories**
 - Say you're the owner of a museum. Our application would allow you to have a location-based way to keep track of all pieces in storage and on display at your museum.
- **Professionals**
 - Say you were an elementary teacher that is required to have basic supplies for your students. Our application would allow you to keep track of said supplies in a location-based organized manner.
- **The Average Joe**
 - Say you were someone who was moving into a new home and trying to sell your current real estate. You could use our application to keep track of what items (for example, furniture) you're leaving behind to allow potential buyers to understand what else would come with purchasing your home.

Why Should You be Interested?

- **Easy Access and User Friendly**
 - Many inventory management systems require many steps to be deployed (such as talking with reps, getting the software running, etc.) which ends up causing an individual or business to waste more of their time. Our BIS will allow for users to quickly create accounts and get started with populating and managing their buildings.
- **General Purpose**
 - Some inventory systems are targeted towards managing a specific type of inventory (such as IT, restaurant, etc.) and are usually targeted towards corporate needs. Our BIS won't be cluttered with a ton of specific features, allowing for everyone to easily use it.
- **Lightweight**
 - Our BIS will be accessible in a browser and doesn't require any hosting on the user's part, hence will run quick and be available on all systems with a browser.
- **IT'S FREE!!!**
 - Most inventory systems are targeted towards businesses, and therefore require quotes and usually big costs. Our BIS will be free of charge.

Current Competitors

Oftentimes, businesses and individuals use Excel as their option for inventory management strictly out of familiarity and ease of use. However, Excel's main focus is not inventory management. Hence, we aim to provide a better alternative that revolves around inventory management and is just as user friendly.

Some big name solutions that have inventory management systems are "Freshbooks" and "Zoho." However, these services are not strictly inventory management systems and have other functionalities that our targeted users may not be interested in..

Additionally, some other inventory management systems are "InventoryCloud by Wasp" and "Freshworks". Our solution, however, not only targets businesses, but homeowners as well. Using our system of rooms and containers, our web app not only makes organizing easier, but makes viewing your inventory easier as well.

Once again, while some of our competitors require subscriptions or payments, ours is completely free.

Link to watch presentation:

https://www.youtube.com/watch?v=uagByblDEpY&ab_channel=MistaCruz