



Project Amazoom

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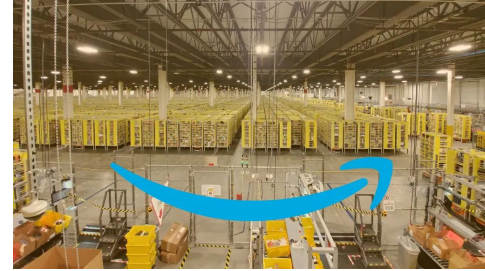


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Project purpose

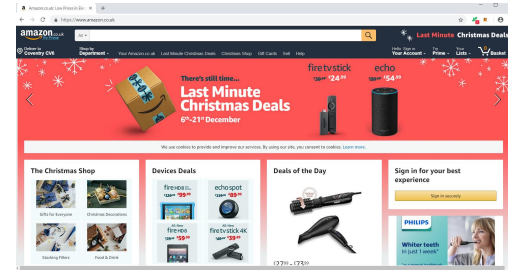
An automatic warehouse management system

- Robots and drones automatically grab items and restock items
- Trucks automatically load and unload items



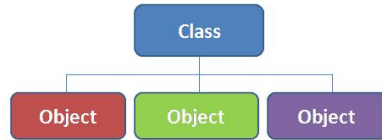
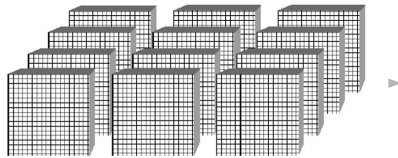
A website as a user interface

- Make users purchase products from website
- Make manager edit the stock (some manager functions are in the Warehouse interface)

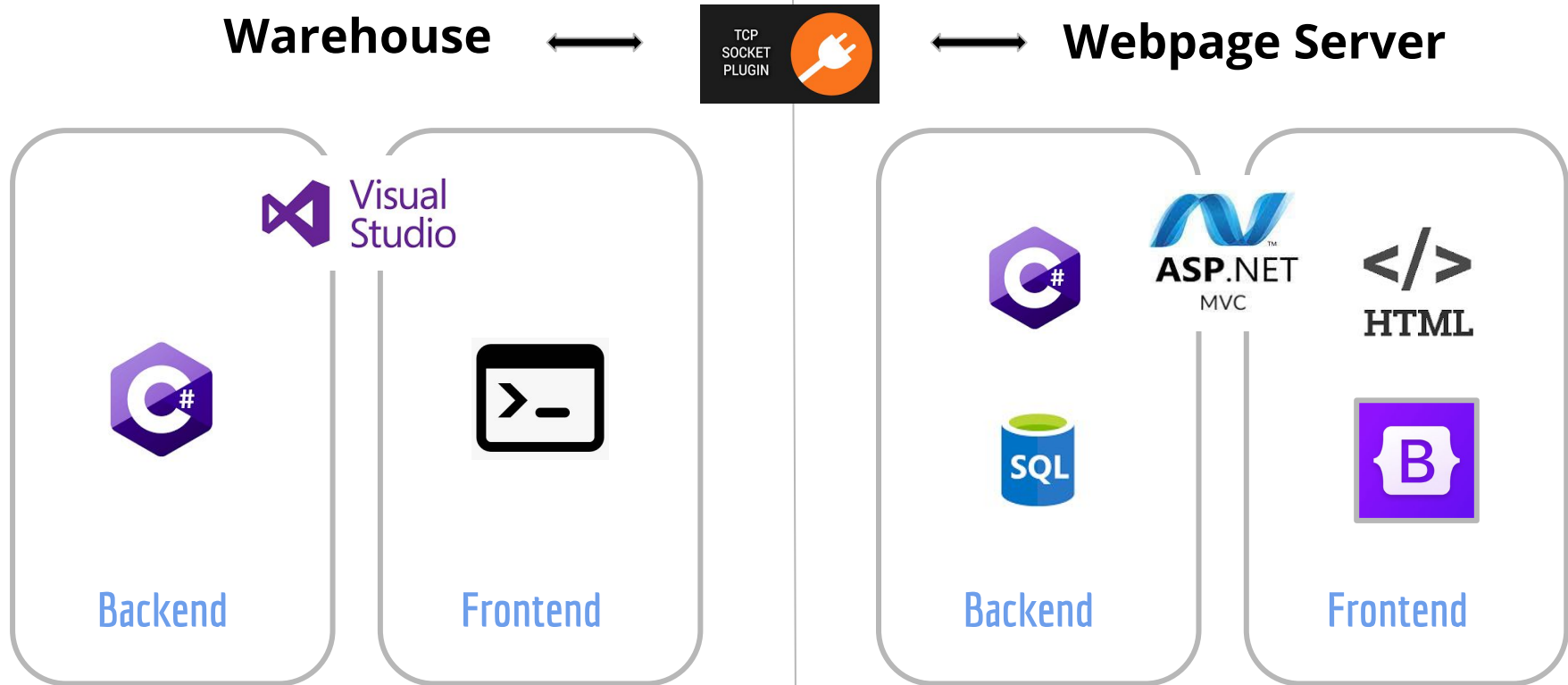


How things were improved (Warehouse)

1. Warehouse simulated using a 4D array
2. basic item class to store item information
3. delivery truck system
4. robots move items around the warehouse and to trucks
5. multiple robots operate simultaneously
6. central computer to keep track of all data between classes
7. order input from website as a string



Application Technology Stack



Summary of Requirements Satisfied

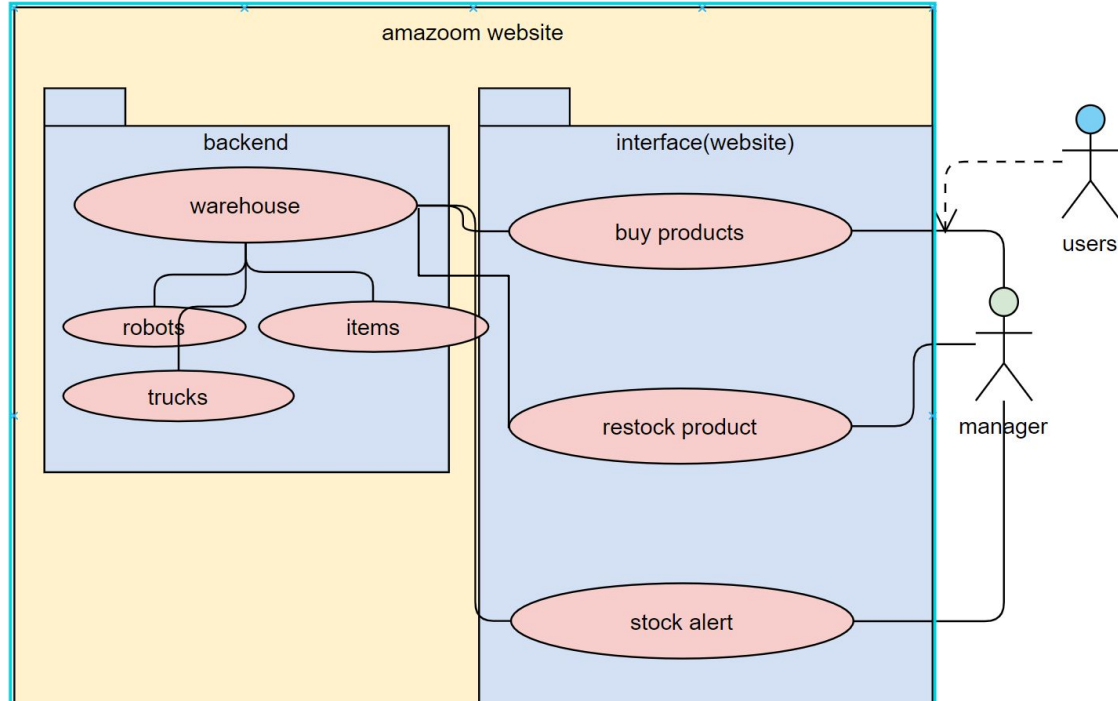
User interface:

- login/register for admin & user
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- User:
 - 1. Search for the items
 - 2. View item details
 - 3. Place order / add multiple items to the cart
 - 4. View order record
 - 5. Lack of stock alert
- Manager:
 - 1. Edit stock (subtract or add)
 - 2. View and edit database

Warehouse (console app)

- View the working situation of the Warehouse (Robot's position, item list .etc)
- Change the warehouse dimension

Overall Design



What's included in the demo

1. Login & Register System		
2. Database	➡	Bonus Web page features
3. Admin Role		
4. Customer Ordering System	➡	Basic Requirements
5. Stock Management		
6. Console-app Output	➡	Testing