ISYG 100 : Application Engineering and Development

Lab 4: How to implement Multi-Party

Relationships?

The problem

 Best Buy wants to build a web application to make it easy for their customers to browse and lean more about all their products

Combined product offerings

Dell products • Product 2 • Product 3
Toshiba
Sony

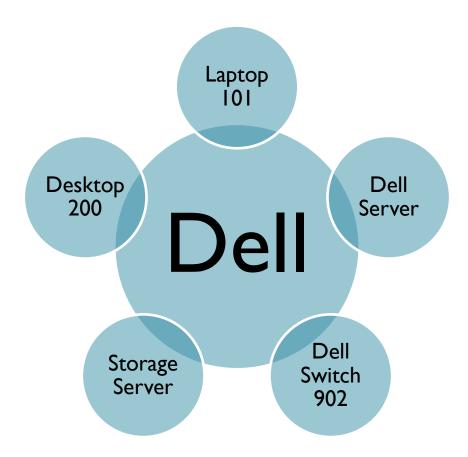


Who are the players?

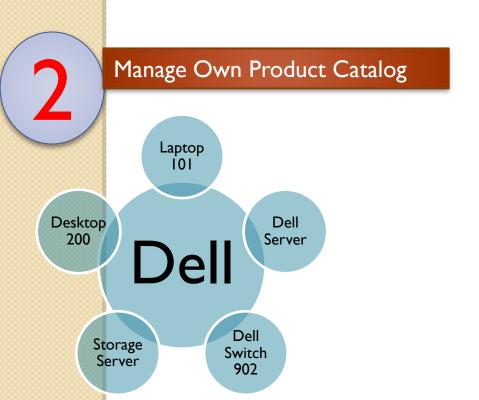
Best Buy sells products from multiple suppliers



Best Buy wants each supplier to manage their own catalog of products

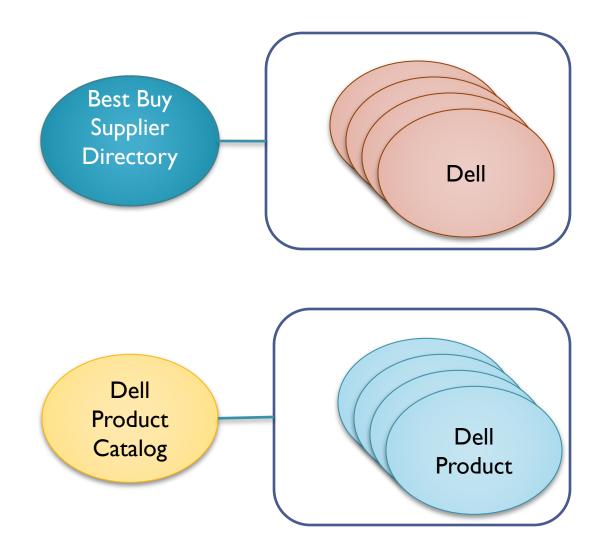


Best Buy will register each supplier first and from then on each supplier must keep its product catalog up to date.

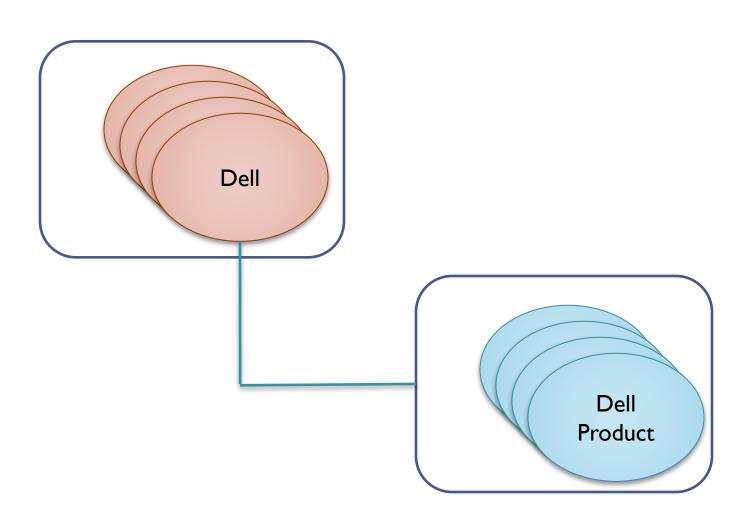




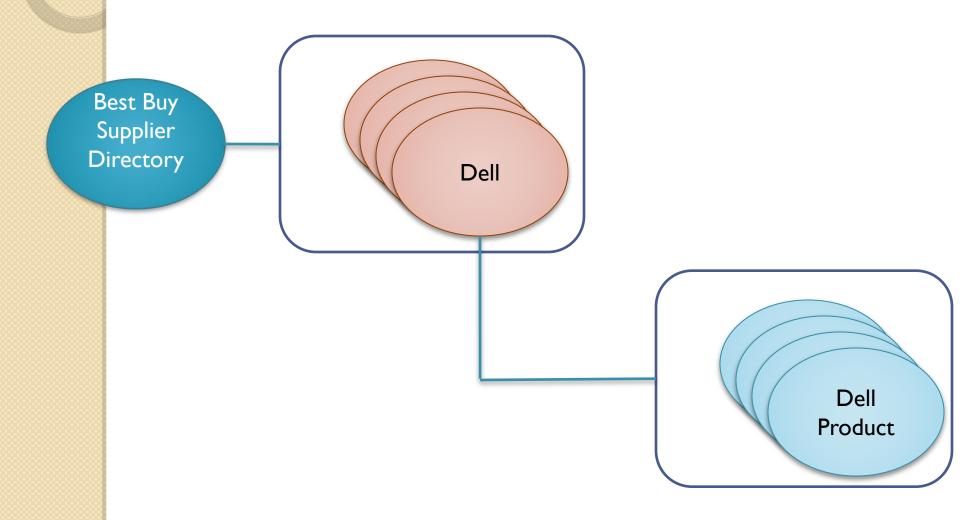
What do we know so far?



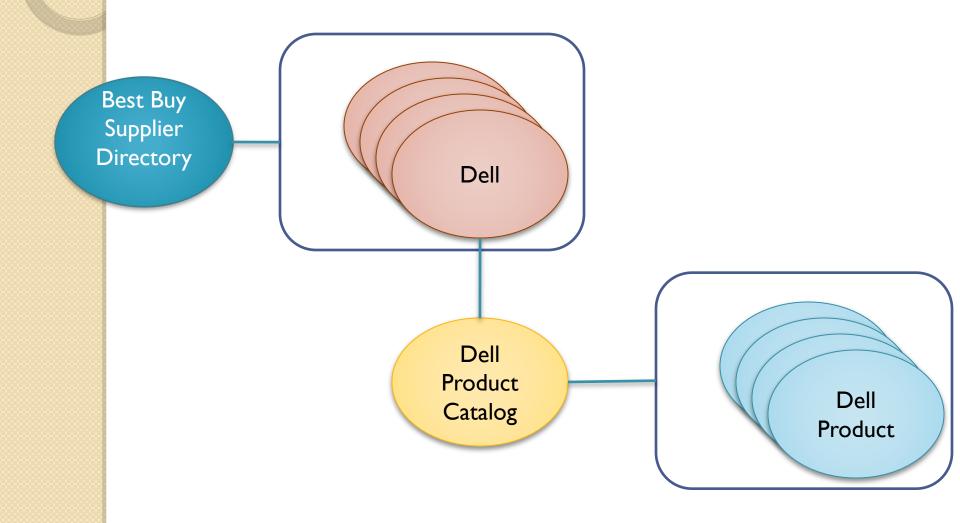
Each supplier offers many products



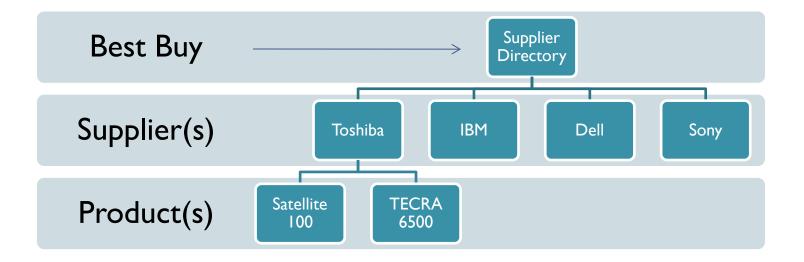
Best Buy has many suppliers Each supplier offers many products



Suppliers represented as a directoy Products represented as a catalog

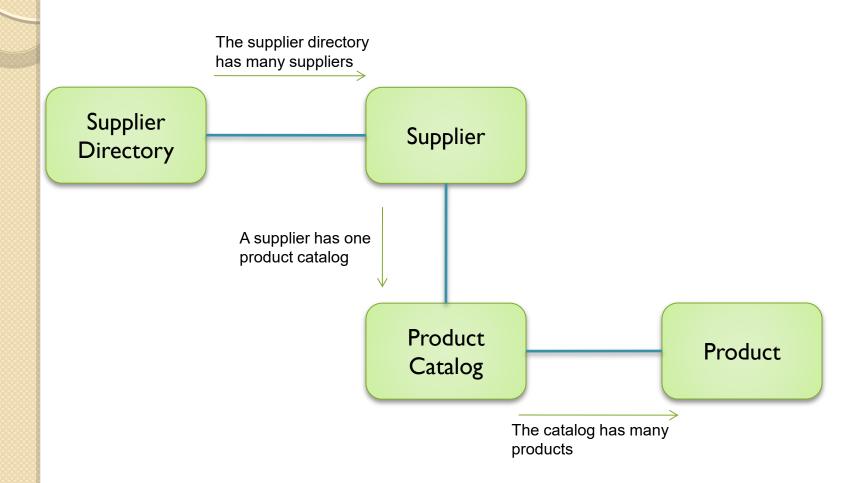


Hierarchy Structure

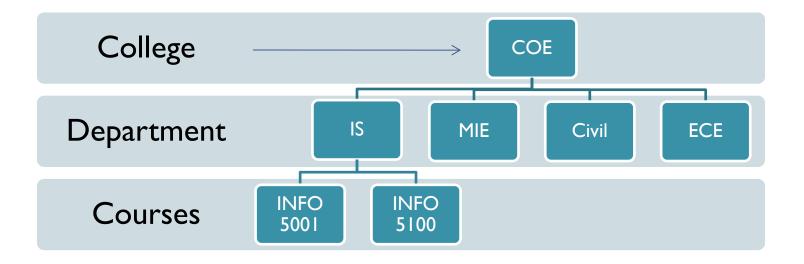


What is a higher level component? What would be a lower level component?

The Business Model

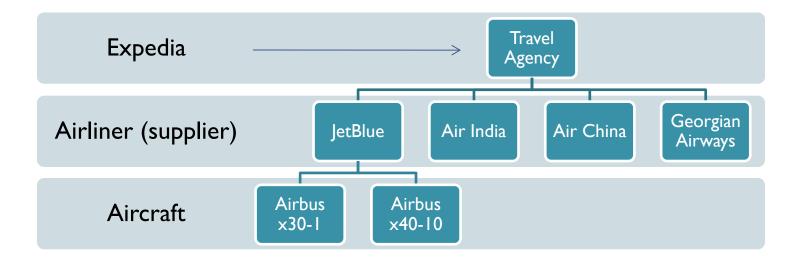


Hierarchy Structure Example



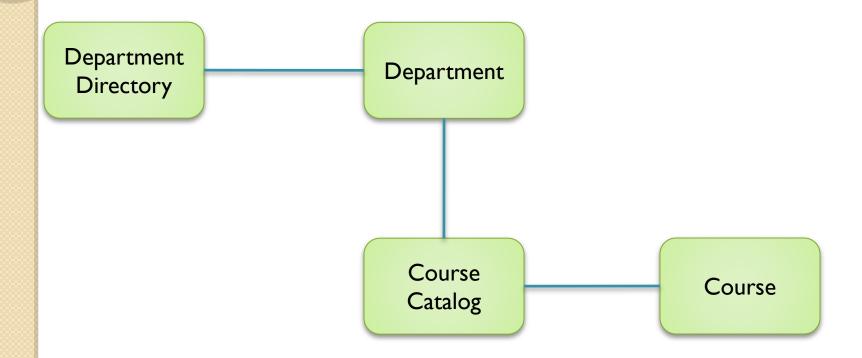
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Hierarchy Structure Example

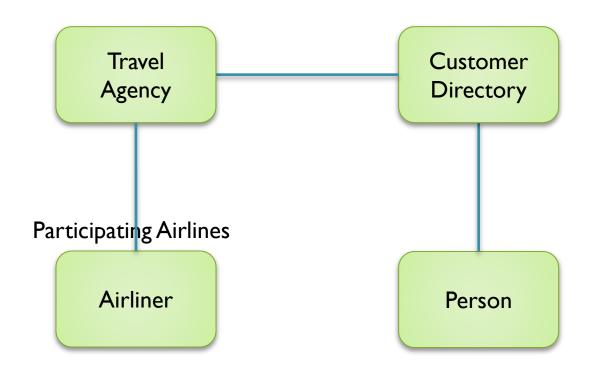


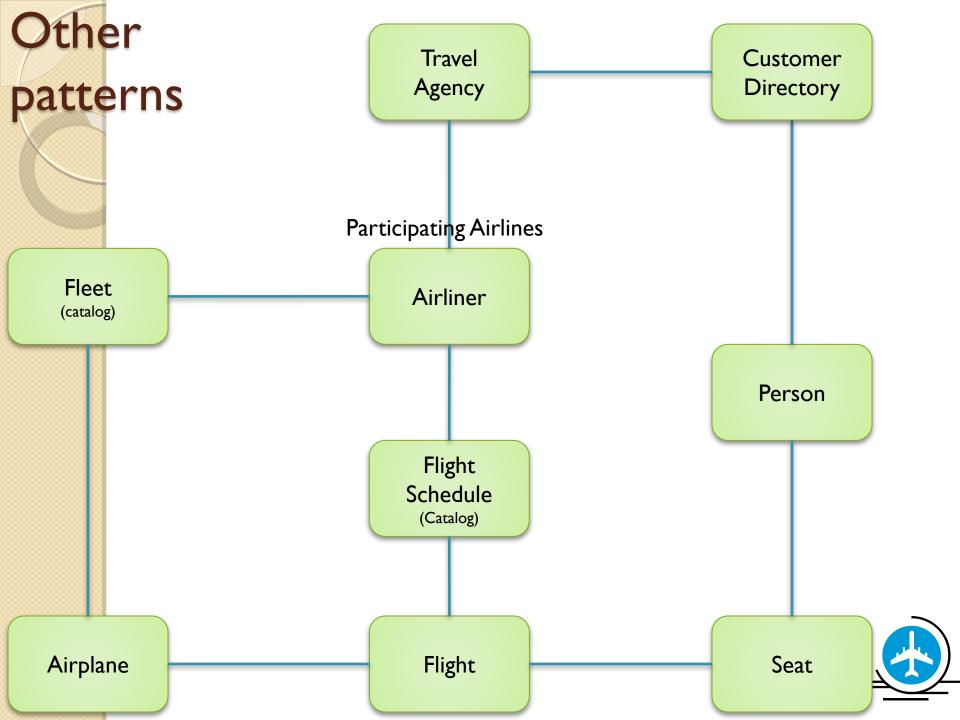
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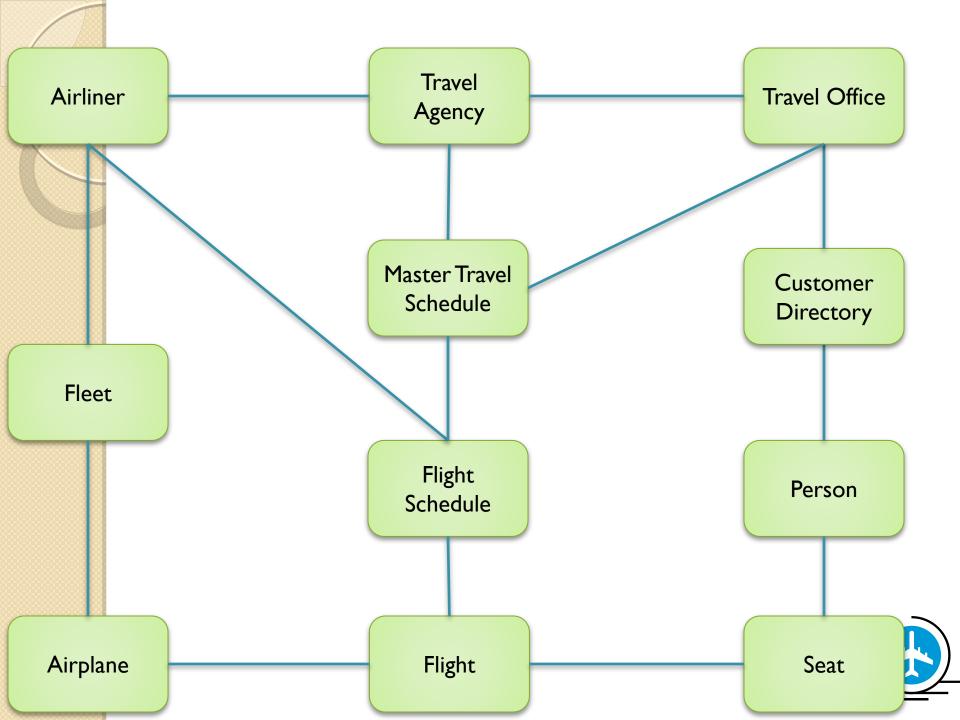
Other patterns

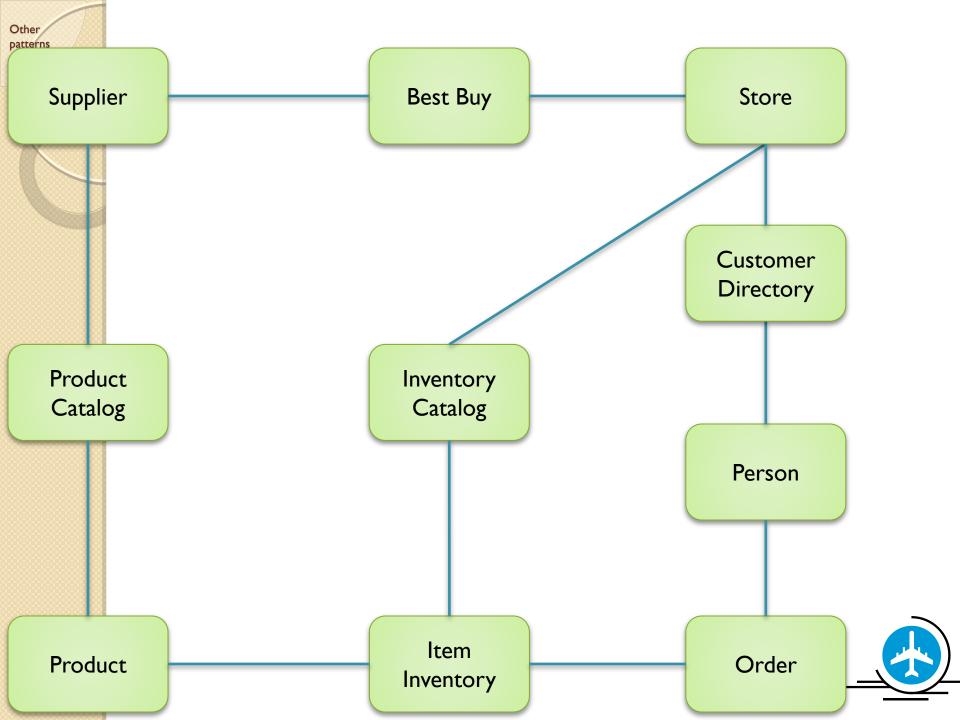


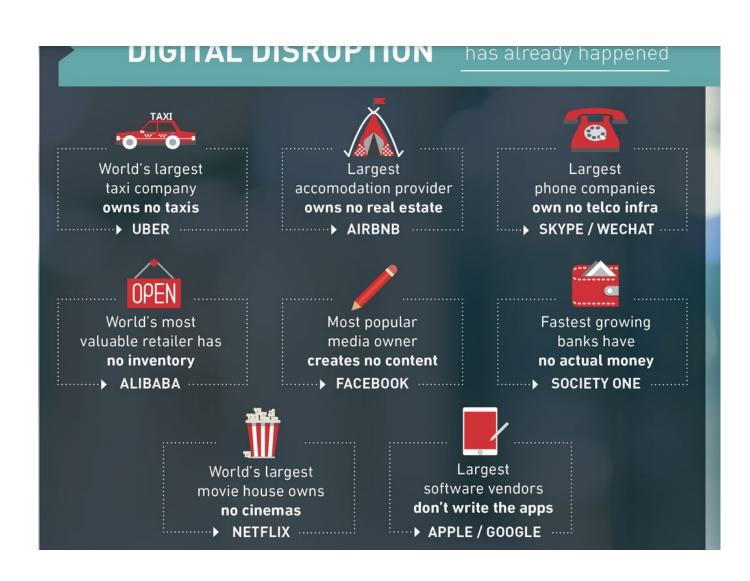
Other













- Airplane crew
- Departure time
- Destination
- Next Maintenance date
- Model and serial numbers
- Seat status
- Find fight to location (e.g., london)
- Passenger Capacity
- Fuel Capacity
- Find cheap flight to London (on xmas eve please)
- Schedule a tour around the world (including a 2 day stop in Disneyland)
- From destination
- All the company's airplanes that need maintenance soon
- Cancel my travel plan
- Who are the top 10 best travellers
- Create promotion for a exotics trip to South Africa

Implementation

Approach

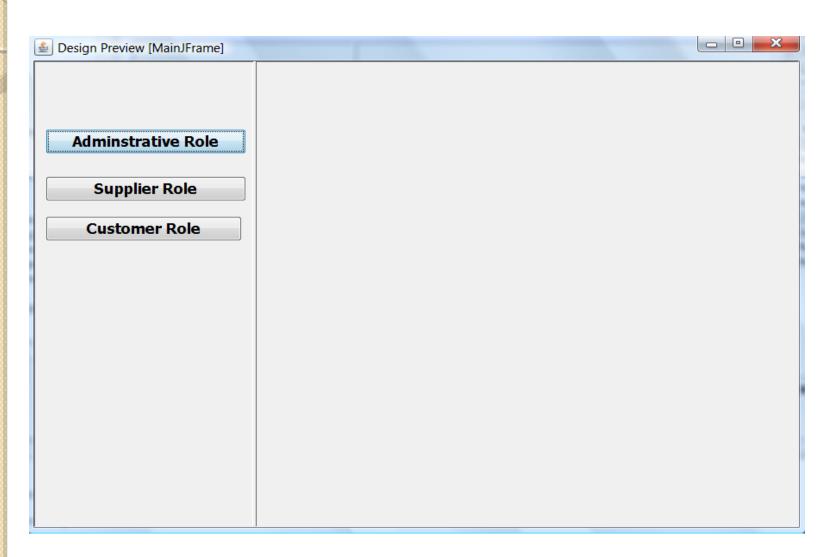
- Manage a supplier database
 - Add a supplier
 - Update a supplier
 - Remove/Disable a supplier
- 2. Manage product catalog
 - Add product
 - Remove product
 - Update a product

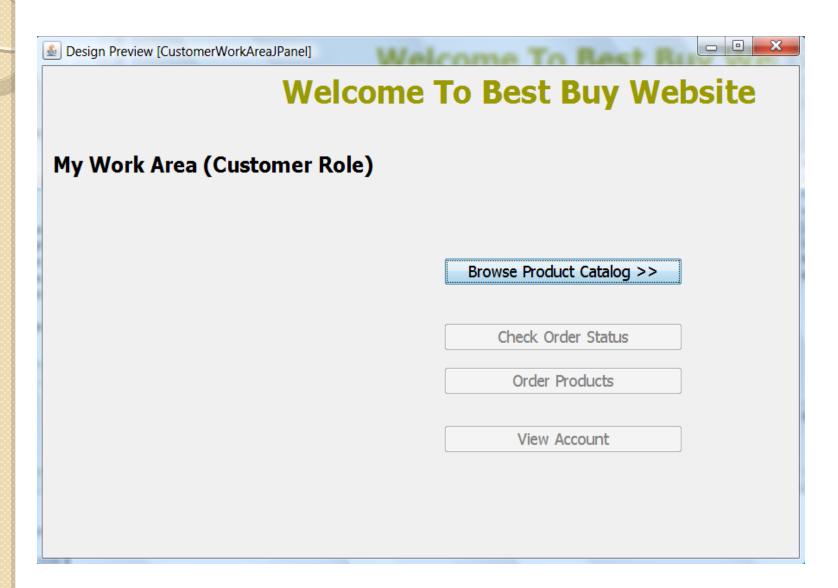
Manage Suppliers Use Case

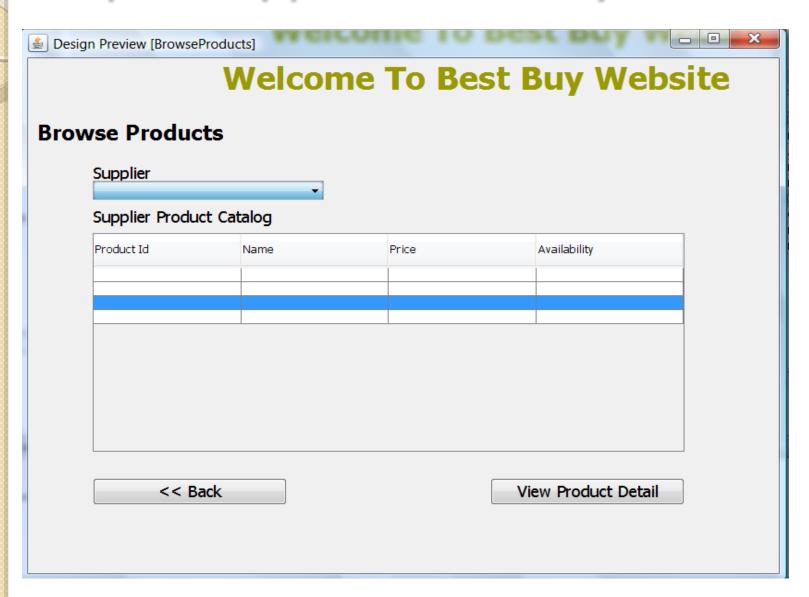
- System displays admin work area identifying the admin name
- System offers two options: view or browse supplier directory
- User chooses to view or browse supplier directory
- System displays supplier directory
- User chooses to:
 - Add a supplier and returns to previous screen
 - To view a supplier in detail
 - Upon viewing a supplier, the user might choose to update the supplier information

Supplier Use Case

- Supplier logs in using supplier name
- System checks if the supplier is valid and if successful displays supplier work area identifying the supplier name
- Supplier chooses to view or browse product catalog
- System displays product catalog
- User chooses to:
 - Adds a product and returns to previous screen
 - User adds a product and returns to previous screen
 - To view a product in detail
 - Upon viewing a product, the user might choose to update it

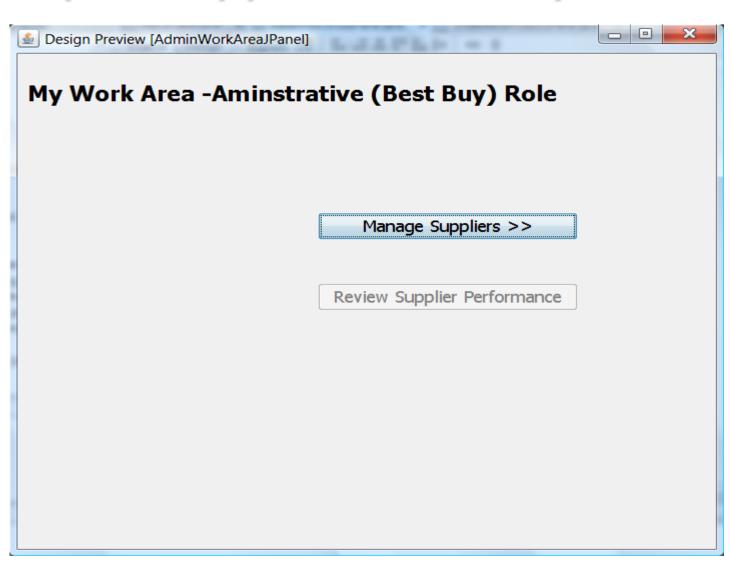


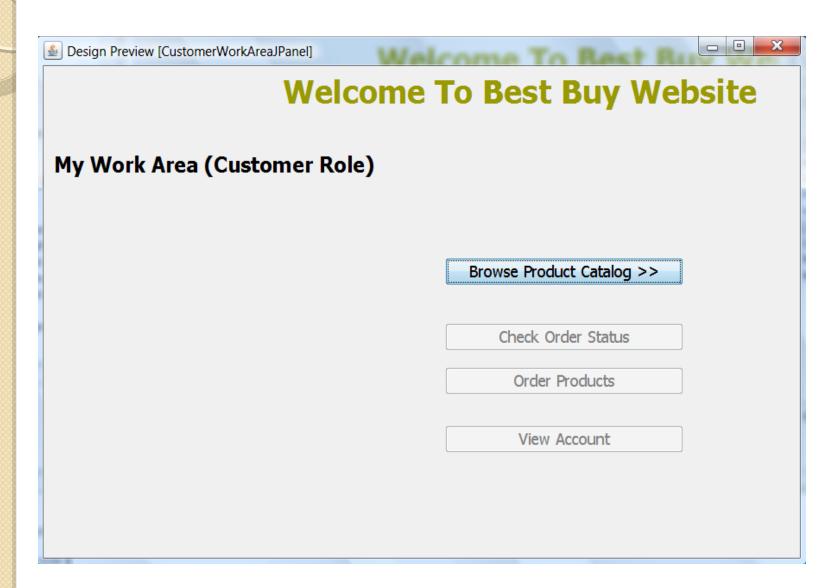


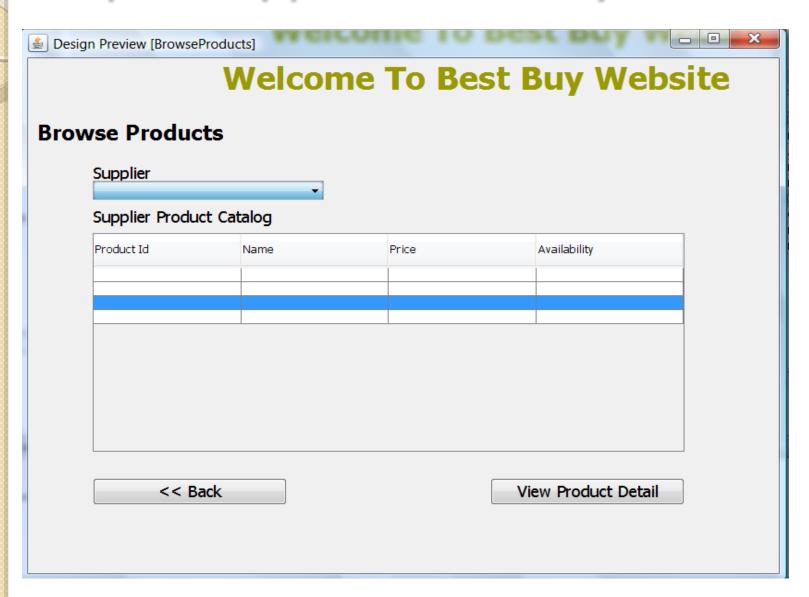


What is the input to this screen?

Design Preview [ViewSupplierProductDetailJPanel]			
View Product Detail			
Product Name:	Supplier		
Product Price:			
Product Availability:			
<< Back			







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View Product Detail			
Product Name:	Supplier		
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