Abstract	
U	ser
	Shopper, Administrator
Log in	
Register	
Browse	
Log out	

Product	
Check availability Present image, ID, description, category, price(CAD)	Category
Keeps track of quantity at each distribution center.	

3		
		User
Administr	ator	
Add new categories	Catego	ory
Generate a screen report of	Produc	ct
existing categories	Invoice	9
Add a new product	FileMa	nager
Change the photograph, description, price, available quantity	Мар	
See a list of products and the availabilities and ability to so name or category.		
Add distribution center		
Add shipping route		
Update quantity		

Invoice	

Category

	User
Shopper	
Add record	Product
Add products to cart	Category
Check out	FileManager
See a list of his purchases	Invoice
See a list of products and	Order
their availabilities	Customer
Save cart	
Place order	

FileManager		
Road and write Products from files		User
Read and write Products from files		
Read and write Categories from files		Category
Read and write Map (Cities, Distribution Route) from files	Centers, Flight	Product
Read and write Users		Invoice
Read and write Orders		Order
Read and write Orders		
Sess	sion	
		FileManager
		G
Ma	ap	
- Add a city		Неар
- Add a distribution center		
 Add a Flight Route Get cost of shortest route between two locations. 		
- Get cost of shortest route between two locations.		
Order		

Неар		
	HeapEmptyException	
	HeapFullException	
	Exception	
HeapEmptyException		
	Cycontian	
Exception		
неарғин	Exception	
Interface		
Неар	oltem	
	HeapItem	
City_Node		
Set up Heap Index		

Customer	

GUI

Perform a GUI for User log in, register, log out.

Perform a GUI for Administrator maintain products, category, shipping routes, add new distribution center, generate category reports and perform sales reports

Perform a GUI for browse all products and search products

Perform a GUI for Customer add to cart, cancel cart, modify cart, see purchase history

Project

User