1. Sale Items:

The focus of our company is providing a website buying/selling rams related items. Such as a computer RAM/animal ram/Rammus(LOL) and so on. An item, either is new or old, which is sold by the listed price or by auction. Customers can choose to buy products either from company directly or from an online seller.

1. Categories:

The root of the tree which is labeled “All” represents all rams related items. Each node has about fifteen children.

All Categories:

* All Rams
* Toys & Games
* Plush Puppets
* Dress up & Pretend Play
* Puppets
* Part Supplies
* Stuffed Animals
* Action & Toy Figures
* Play Vehicles
* Men’s Fashion
* Men’s Clothing
* Men’s Shirts
* Men’s Activewear
* Men’s Shoes
* Women’s Fashion
* Women’s Clothing
* Women’s Shirts
* Women’s Activewear
* Women’s Shoes
* Boys’ Fashion
* Boy’s Clothing
* Boy’s Shirts
* Boy’s Activewear
* Boy’s Shoes
* Girls’ Fashion
* Girls’ Clothing
* Girls’ Shirts
* Girls’ Activewear
* Girls’ Shoes
* Sports & Outdoors
* League & Team
* Dewsbury Rams
* RAM Racing
* Derby County F.C.
* Los Angeles Rams
* Colorado State Rams
* Fordham Rams
* Rawalpindi Rams
* Rhode Island Rams
* Team Sports
* Baseball & softball
* Basketball
* Football
* Soccer
* Rugby
* Tennis & Racquet Sports
* Ice Hockey
* Volleyball
* Other Team Sports
* Sports Fan Shop
* Sports Fan Earrings
* Sports Fan Helmets
* Sports Fan Clothing
* Sports Fan Shoes
* Science & Technology
* Radar-absorbent material
* Random-access memory
* Random access machine
* Rechargeable Alkaline Manganese
* DVD-RAM
* Ram Clutches
* Vehicles
* Ramjet
* Ram Trucks
* Ram Pickup
* Dodge Ram
* Music
* Band
* RAM
* Ram Jam
* Rammstein
* Album
* Ram
* Ram Records
* Ram Trilogy
* Grocery & Gourmet Food
* Hard Candy
* Coffee, Tea & Beverages
* Breads & Bakery
* Ramen
* Asian Noodle Soups
* Miso Soups
* Soba Noodles
* Macaroni & Cheese
* Shirataki Noodles
* Beef Soups
* Spices Seasonings
* Seafood
* Animals
* Sheep
* Goat
* Ram cichlid

For example:

Search “LOL Rammus”, it will display under:

* Rams > Toys & Games > Plush Puppets/Kids’ party Hats/Kids’ Plush Pillows
* Rams > Sports & Outdoors > Sports Fan slippers
* Rams > Arts & Crafts > Jewelry Making Charms
* Rams > Women’s Fashion > Women’s Clothing

Search “Dodge Ram”, it will display under:

* Rams > Toys & Games > Action & Toy Figures/Play Vehicles
* Rams > Vehicles > Ram Trucks > Dodge Ram
* Rams > Men’s Fashion > Men’s Clothing
* Rams > Women’s Fashion > Women’s Clothing

1. Registered Users:

A customer/company wants to bid/sell products on our website must register. A guest can sign up to our website by email address or telephone number. To register as a seller, a company/seller must provide valid identity documents and details of items want to sell. To register as a bidder, a buyer must provide valid credit card info. A customer who wants to buy products can choose check out as a guest or register as a buyer. A guest can register as a buyer by email address or telephone number simply without identity documents or credit card info. A registered user is identified by a user name and authenticated with a password. Registered users can store addresses, credit cards info, email address, phone number, age, gender, annual income on our website, and they can manage these information later under ‘personal profile’.

1. Browsing:

Every item on our website has a unique product id associated with it. Each registered user has a unique user id. We create a Browse table. When a registered user is browsing an item, the product id and user id are connected in the Browse table. Therefore, we have browsing history for every registered user. Browsing history will be shown to the user according to browsing time: new to old.

When users browsing an item, they will be also shown three lists.

* Its’ parent in the category tree.
* All items in this category.
* Its’ children in the category tree.

Therefore, users can browse the items by traversing the category tree.

1. Sale:

Create a Transaction table. If a customer purchases an item based on listed price and the charge on the credit card is successful, then we record this transaction on the transaction table by using product id and user id. Once a transaction is entered into transaction table, we need to prepare shipping this item to the buyer. We record all the transactions in the latest recent six months. If a transaction succeeded more than six months ago, we delete it from the transaction table.

1. Order and sale reports:

Every Monday, extract all the transactions in the Transaction table over the past week. Because we want to see the ordering and sales information based on the categories of items, we need to find the item’s category when we take the transaction. We can find the item’s category by its’ unique product id. Then, we are able to see how’s business doing under each category.