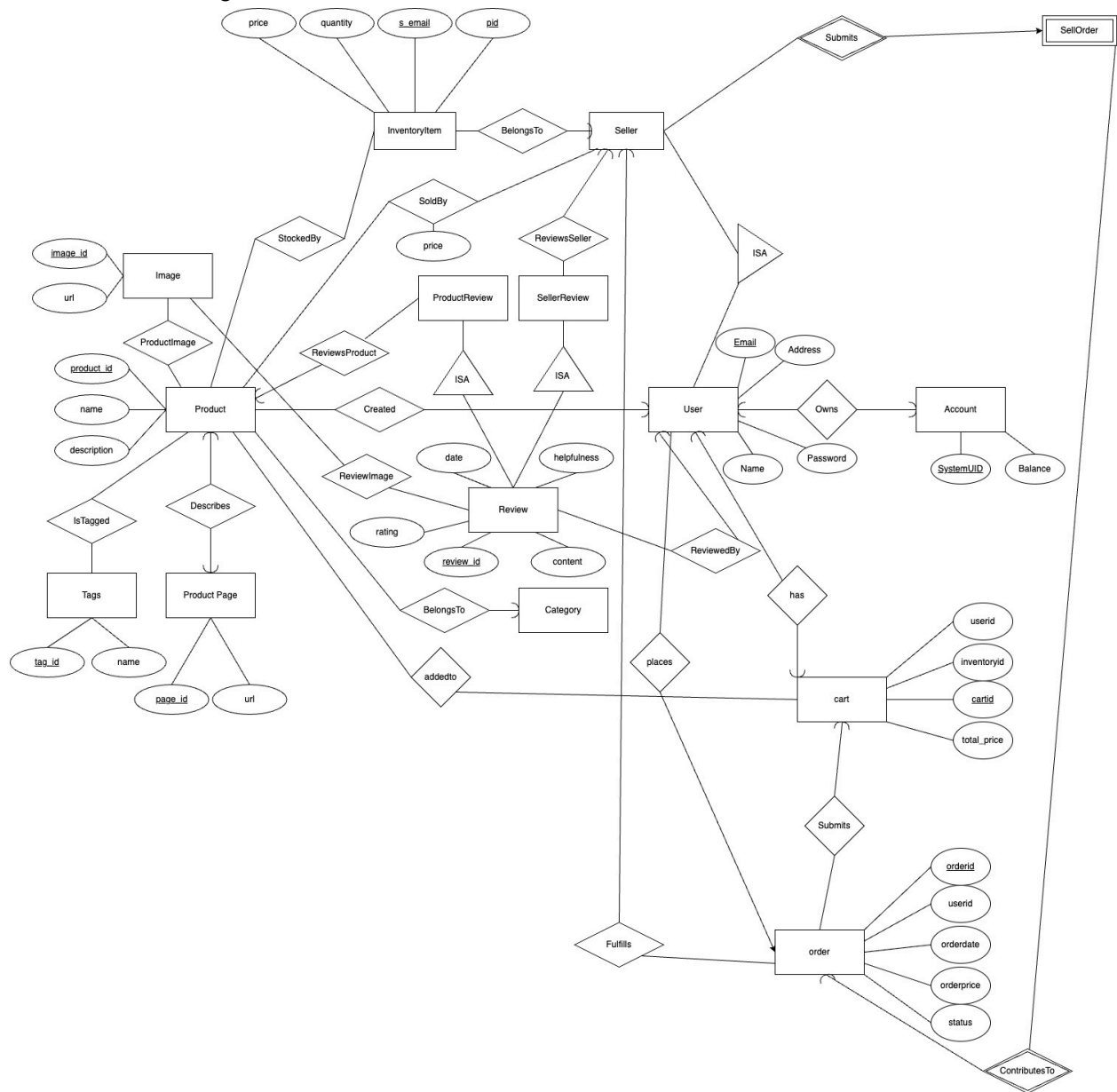


## Relational E/R Diagram



## Relational Schema:

User(Email, Address, Name, Password)

Owns(Email, SystemUID)

Account(SystemUID, Balance)

Seller(email, address, name, password)

Inventory(seller\_email, productID, price, quantity)

StockedBy(seller\_email, productID)

Has(Email, CartID)

Submits(OrderID, CartID)

Cart(CartID, UserID, InventoryID, totalprice)

Order(OrderID, UserID, orderdate, orderprice, status)

Fulfills(OrderID, SellerID)

Places(UserID, OrderID)

Addedto(ProductID, CartID)

Product(product\_id, name, description)

ProductPage(page\_id, url)

Image(image\_id, url)

Describes(page\_id, product\_id)

ProductImage(product\_id, image\_id)

Tags(tag\_id, name)

IsTagged(product\_id, tag\_id)

Review(review\_id, rating, content, date, helpfulness)

ReviewImage(review\_id, image\_id)

ReviewedBy(review\_id, Email)

ProductReview(review\_id)

SellerReview(review\_id)

ReviewsProduct(review\_id, product\_id)

ReviewsSeller(review\_id, Email)

## Page-by-Page Design of Website:

- All Pages
  - Header
    - LOGO
    - Search
    - Login / Account access
    - Cart
- Main Page
  - Highest rated items
  - Categories
  - Recently Viewed
- Search Page
  - List of products (25 default) (can go to next set of 25 at bottom)
  - For each product
    - Image
    - Name
    - Lowest Price
    - Rating
    - Clicking on product will send you to Product Page
- Product Page
  - Image
  - Name
  - Sellers, Price
  - Rating
    - Average from reviews
  - Reviews
  - Recommendation (for other products)
    - Will look the same as on search page
  - Add to cart
    - Quantity
    - Seller
- User Page
  - Personal information (can be modified, checks will be in place to ensure email is unique):
    - Name
    - Address
    - Email
    - Password (hidden)
- Cart Page
  - Products added to Cart
    - Product Name
    - Product ID

- Description
    - Image
    - Price
    - Quantity
  - Remove from Cart
  - Checkout
  - Total Price of all items in the cart
- Order Page
  - Current Order (Repeat for all distinct orders)
    - Products
    - Image
    - Total Price
    - Date of order
  - Option to view order history
- Seller Page
  - Inventory (can be modified)
    - Price
    - Quantity
    - Items sold
  - Fulfillment History
  - Total Revenue
  - Reviews + aggregate review scores