**Model objects**:

* AuctionBean
* OfferBean
* ProductBean
* UserBean

**Data Access objects:**

* AuctionDAO
  + createAuction (price,rise, expiry, userID)
  + getAuctions (userID, active, loginTime)
  + getAuctionsByID (userID, loginTime)
  + getWinner (auctionID)
  + getWonAuctions (userID)
  + getAuctionByKeyword (article, userID, loginTime)
  + close (auctionID, userID)
* OfferDAO
  + getOffers (auctionID)
  + addOffer (offer, userID, auctionID, date)
  + getMaxOffer (auctionID)
* ProductDAO
  + addProduct (name, description, price, userID)
  + getUserProducts (userID)
  + update (productid, auctionID)
  + getPrice (productID)
  + checkProduct (productid, userID)
* UserDAO
  + authenticate (username, password)
  + addUser (username, email, city, address, province, password)
  + getUser (userID)
  + getUserByUsername (username)
  + getUserByEmail (email)

**Controllers:**

* DoAddProduct
* DoClose
* DoCreateAuction
* DoGetImage
* DoLogin
* DoLogout
* DoOffer
* DoSignup

**Filters:**

* AuthFilter
* OfferFilter
* UnAuthFilter

**Views:**

* GetBuyPage
* GetDetailsPage
* GetErrorPage
* GetHomePage
* GetLoginPage
* GetOffersPage
* GetSellPage
* GetSignupPage