



- Constraint 2 responsibility:
  - \* Responsible class - SystemController
  - \* User Controller needs to have a member with an admin role.
  - \* SystemController - initializes the default admin creation (or pulls it from data).

Constraint 4 responsibility:

- \* Responsible class - SecurityController
- \* Maintains logged in members and guests lists, and doesn't permit a logged off member or guest to interact with the market.

Constraint 6 responsibility:

- \* Responsible classes - PurchaseController, ShoppingCartController
- \* The Shopping Cart Controller will not allow to add a product with more than the available quantity.
- \* Upon adding a new product to a shop or modifying it the PurchaseController will ensure the value given is non-negative

Constraint 7 responsibility:

- \* Responsible classes - PaymentService
- \* The Payment Service is responsible for all communications with the external service. A payment call contains the user's credentials and will return a positive response only upon transaction success, this enforces all payment constraints specified.