

Software design is a process to transform **user requirements** into some **suitable form**, which helps the programmer in software coding and implementation.

# Clemson Bank – Release 1

An online banking system.....

## Clemson Bank

Account  
Login

Account  
Signup

Change  
Password  
etc...

Deposit via  
Check

Transfer  
within  
Account

Transfer  
across  
Clemson  
Accounts

Transfer  
outside  
Clemson  
Accounts

Send  
Notification  
on  
Transfers

Insufficient  
Funds Alerts

Replace  
Card

Lock and  
Unlock  
Card

Transaction  
History

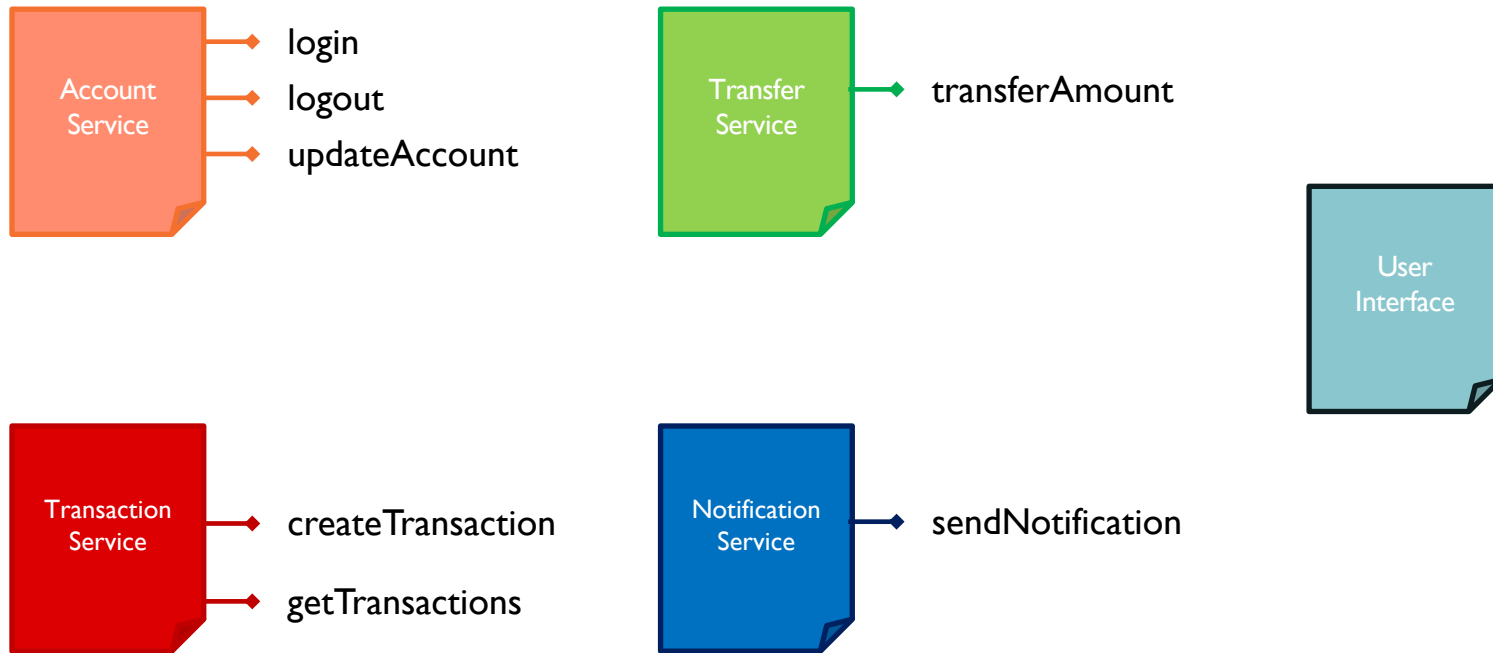
Spending  
Dashboards

Travel  
Notification  
s

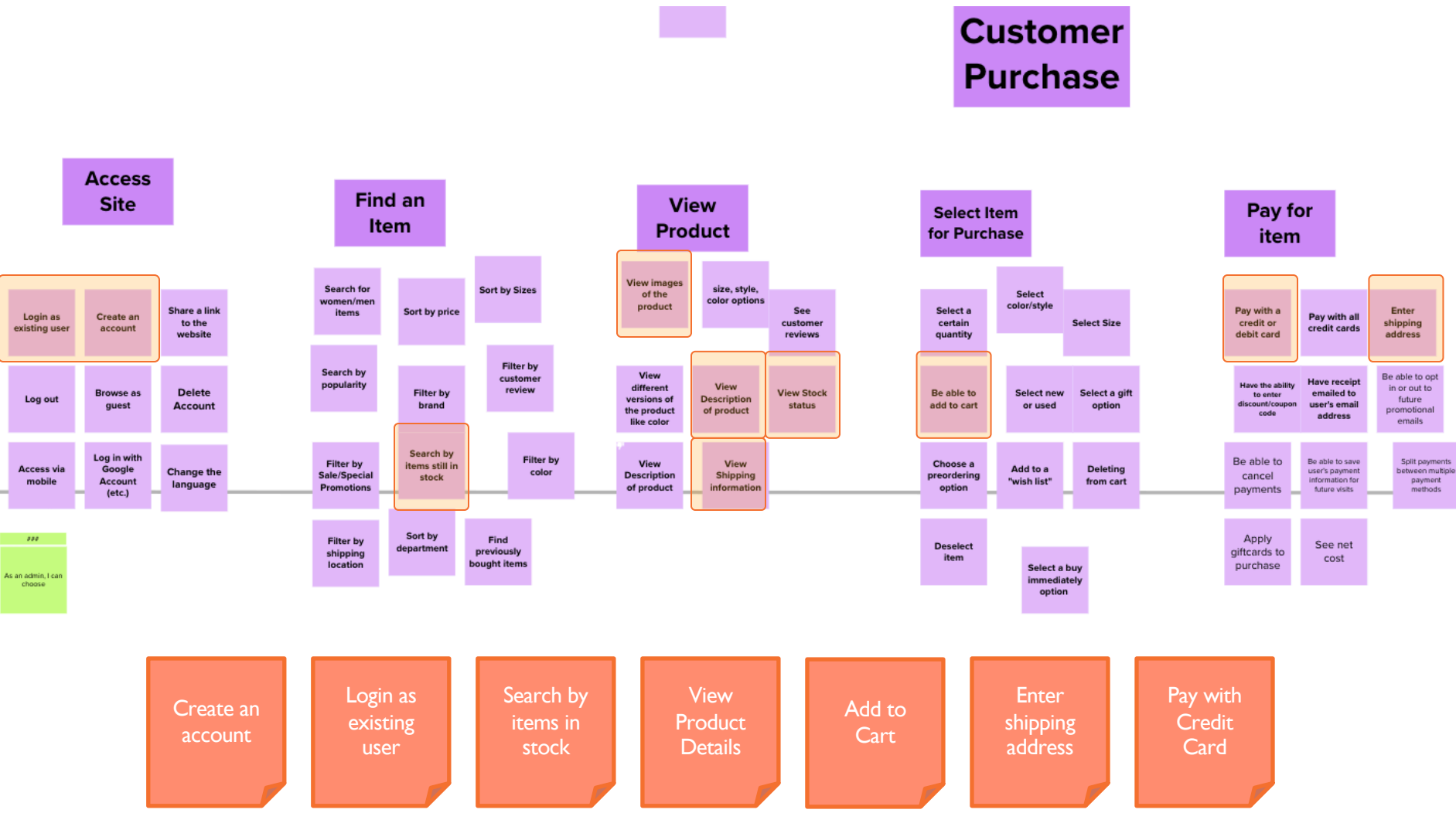
# Modules

An online banking system.....

## Clemson Bank



# CU Sports – Release 1



# CU Sports - Modules



Pricing

getPrice  
getShippingCharge  
getTax

ACCOUNT

Item

PAYMENT

Cart

Search

Create an account

createAccount

Login as existing user

accountLogin

view product details

productDetail

Select color/size

selectColor  
selectSize

Pay with Credit Card

cardPayment

Enter coupon code

enterCoupon

Enter shipping address

shippingAddress

modify quantity

numItems

Search by price

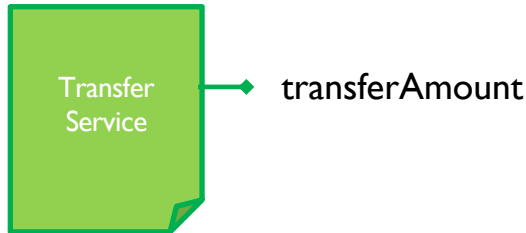
findItem

Search buy items in stock

searchItem

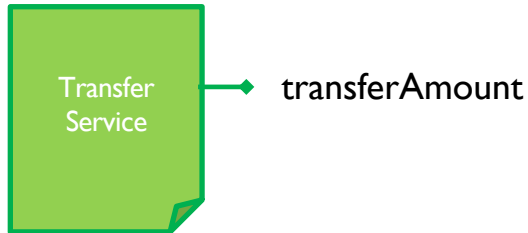
An online banking system.....

## Clemson Bank



- Configurations
  - Transfer Types
- Business Rules
  - Transfer Limits
- Transactional
  - Transfer Transaction

# API Contract



## Input

```
{  
  "fromAccount" : "X10001",  
  "toAccount" : "X10002",  
  "amount": 100.00,  
  "currencyCode": "USD"  
}
```

## Output

```
{  
  "transactionId" : "TXN10001",  
  "transactionStatus" : "PENDING"  
}
```

```
{  
  "transactionId" : "TXN10001",  
  "transactionStatus" : "REJECTED",  
  "reasonCode": "EX101",  
  "message": "Exceeded limit for the day"  
}
```

# CU Sports – Entities and API Contracts

Account  
Service

Item Service

Search  
Service

Pricing  
Service

Cart Service

Payment  
Service

Notification  
Service