RxSwift Basics – Day 4

RxSwift Basics

- Day 1 Observable, Operator (Filter, Transform, Combine)
- Day 2 Subject (flatMap, flatMapFirst, flatMapLatest)
- Day 3 Two VCs communications with Subject, RxCocoa (Button)
- Day 4 Sequential, Merged Observable Calls

Day 5 – RxCocoa, UI Binding (Button, TextField, Label, TableView)

Enum - merge return values

```
enum EnumReturnValues {
    case success(Int)
   case fail(String)
func enumTest(seed: Int) -> EnumReturnValues {
   if seed == 1 {
       return .success(1)
    } else {
       return .fail("Failure")
```



Sequential Call

```
func segControlTest() {
    let fruitObservable = Observable.of("apple", "pineapple", "strawberry")
    let coffeeObservable = Observable.of("McCafe", "TimHorton", "StarBucks")
    let carObservable = Observable.of("Toyota", "Nissan", "Ford", "GM")
    fruitObservable
        .filter{
            if $0 == "apple" {
                print($0)
                return true
            } else {
                return false
        .flatMap { _ -> Observable<String> in
            coffeeObservable
                                                                       }
```

```
.filter{
   if $0 == "TimHorton" {
        print($0)
        return true
    } else {
        return false
.flatMap { _ -> Observable<String> in
    carObservable
.subscribe(onNext: { car in
    print(car)
})
.disposed(by: self.disposeBag)
```

Multi- Sequential Call

```
func multiSegControlTest() {
   let fruitObservable = Observable.of("apple", "pineapple", "strawberry")
    let coffeeObservable = Observable.of("McCafe", "TimHorton", "StarBucks")
    let carObservable = Observable.of("Toyota", "Nissan", "Ford", "GM")
   Observable<Bool>.create { observer in
        Observable.merge([fruitObservable,
                                                                                  .filter{
                          coffeeObservablel)
                                                                                      $0
            .subscribe(onNext: { thing in
                print(thing)
                                                                                  .flatMap { _ -> Observable<String> in
            }, onCompleted: {
                                                                                      carObservable
                observer.onNext(true)
                observer.onCompleted()
                                                                                  .subscribe(onNext: { car in
            })
            .disposed(by: self.disposeBag)
                                                                                      print(car)
                                                                                  }).disposed(by: self.disposeBag)
        return Disposables.create()
```





Traditional

```
func fetchInformation() {
    networking.fetchAppVersion()
            .responseJSON(completionHandler: { (responseJSON) in
            self.networking.fetchConfig()
                .responseJSON(completionHandler: { (responseJSON2) in
                    self.networking.fetchProfile()
                        .responseJSON(completionHandler: { (responseJSON3) in
                            print("\(responseJSON)")
                            print("\(responseJS0N2)")
                            print("\(responseJSON3)")
                })
            })
    })
```



Reactive

```
class CreditCardService {
    func getCreditCards() {
        let service = [] as! Service
       service.rxLogin(username: "admin@gmail.com", password: "12345")
            .flatMap { (authResponse) -> Observable<CreditCardAccount> in
                return service.rxCredidCardAccount(userId: authResponse.userId)
            .flatMap { (creditCardAccount) -> Observable<[CreditCardInfo]> in
                return service.rxAllCreditCards(userId: creditCardAccount.cardsId)
            .subscribe { (creditCardInfo) in
                print(creditCardInfo)
```



- Serial, Multi Calls
- Different Type Observable