Model View Controller meets Monad

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It is all about composition



Goals

- show an end-to-end functional application
- leverage some well-consolidated functional library
- understand limitations (if any) and the improvement

Task

Task represents a specification for a possibly lazy or asynchronous computation, which when executed will produce an A as a result, along with possible side-effects.

What does it refer you to?

```
trait Task[+A] {
    final def flatMap[B](f: A => Task[B]): Task[B] = ...
    final def map[B](f : A => B): Task[B] = ...
    //some interesting extesions
    def memoize: Task[A] = ...
}
object Task {
    def pure[A](a : A) : Task[A]
    def defer[A](a : Task[A]) : Task[A]
}
```

A Little taste

```
object App extends TaskApp {
   def
}
```

Observable

a data type for modelling and processing asynchronous and reactive streaming of events with non-blocking back-pressure.

We use it to implement the Functional Reactive Programming

Books

- 1. Scala with Cats Book
- 2. Category Theory for Programmers
- 3. Functional Reactive Programming

References