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In recent years, there has been a growing interest in modelling software in Scala using *Tagless Final*.

Tagless Final is a technique invented as a solution for the Expression Problem.

It has changed a lot from the way it was ideated in the beginning to what we use now , but the idea is to provide the functionality packaged in typeclasses.

let's see how can we declare our TF Algebras:

Carrier operations: Model

First, we'll need some model around the operations:

```
object model {
  type Order = Unit
  case class NewOrderResponse(trackingCode: String)
  type Tracking = Unit
  type DropoffPoint = Unit
}
```

Carrier operations: Typeclass

```
import model._

trait CarrierIntegration[F[_]] {
  def newOrder(order: Order): F[NewOrderResponse]
  def getTracking(
     trackingCode: String
  ): F[Option[Tracking]]
  def getDropoffPoints(): F[List[DropoffPoint]]
}
```

Tagless Final Carrier Operations: Implementation

```
import scala.concurrent.Future
object CarrierIntegration {
  implicit val impl: CarrierIntegration[Future] =
    new CarrierIntegration[Future] {
      def newOrder(order: Order): Future[NewOrderResponse]
        Future.successful(NewOrderResponse("trackingId"))
      def getTracking(
        trackingCode: String
      ): Future[Option[Tracking]] =
        Future.successful(Some(()))
      def getDropoffPoints(): Future[List[DropoffPoint]] =
        Future.successful(Nil)
```

Carrier Operations: Usage

In order to use our TF Algebra, we can import it as any other typeclass!

```
import cats._
import cats.implicits._

def callCarrier[F[_]: Monad](
   implicit CI: CarrierIntegration[F]
): F[Unit] = for {
   response <- CI.newOrder(())
   _ <- CI.getTracking(response.trackingCode)
} yield ()</pre>
```