



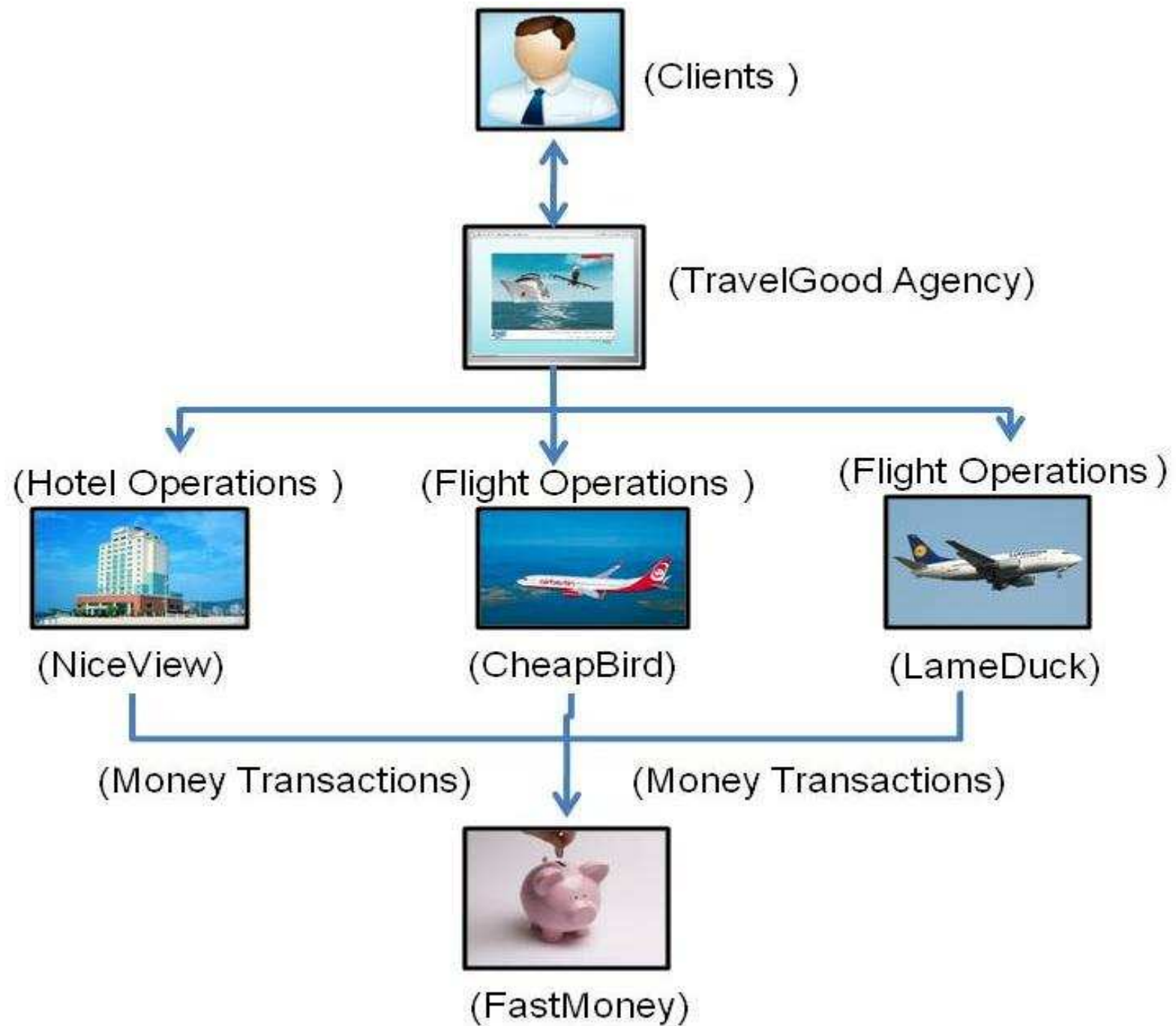
# Software Development of Web Services

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# Exam Project (1/2)

## ❑ Introduction to Web Services

- Basic technologies
- Description
- Discovery
- Composition
- Co-ordination and Importance

## ❑ Implementation

- TravelGood
- LameDuck and CheapBird
- NiceView

# Exam Project (2/2)

- ❑ Web Service Discovery using WSIL
  - TravelGoodAgency.wsil
  - LameDuck.wsil , CheapBird.wsil
  - NiceView.wsil
  - Helper.wsil
  
- ❑ Advanced Web Service Technology
  - WS Addressing
  - WS Policy
  - WS Security
  - WS Reliability

# Travel Good Agency Overview(1/2)

Web Services implemented in JAVA:

- ❑ Cheap Bird webservice
- ❑ Lame Duck webservice
- ❑ Nice View webservice
- ❑ Helper Service webservice

# Travel Good Agency Overview(2/2)

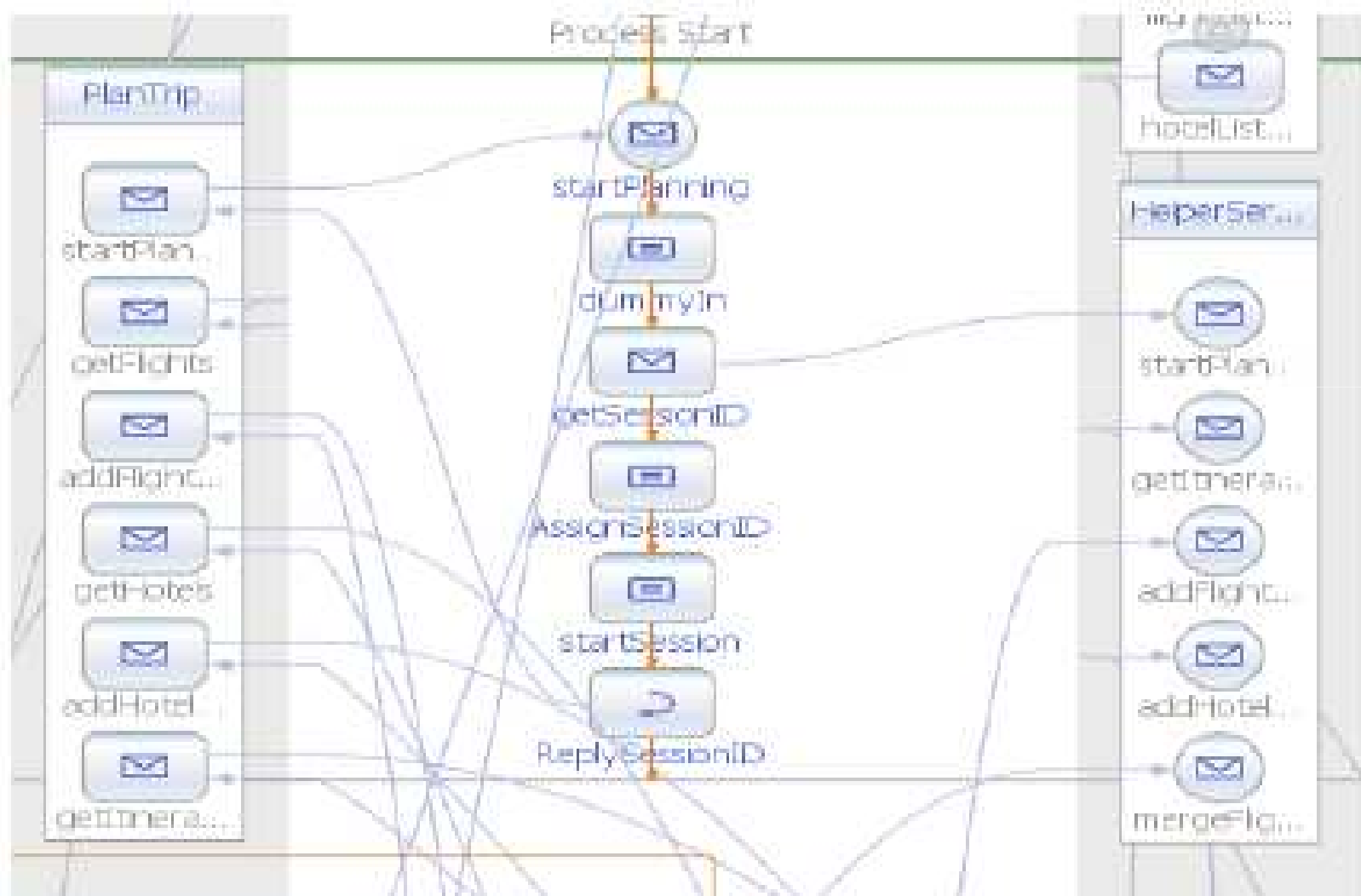
Web Services implemented in BPEL:

- ❑ PlanTrip

- ❑ BookTrip

- ❑ CancelTrip

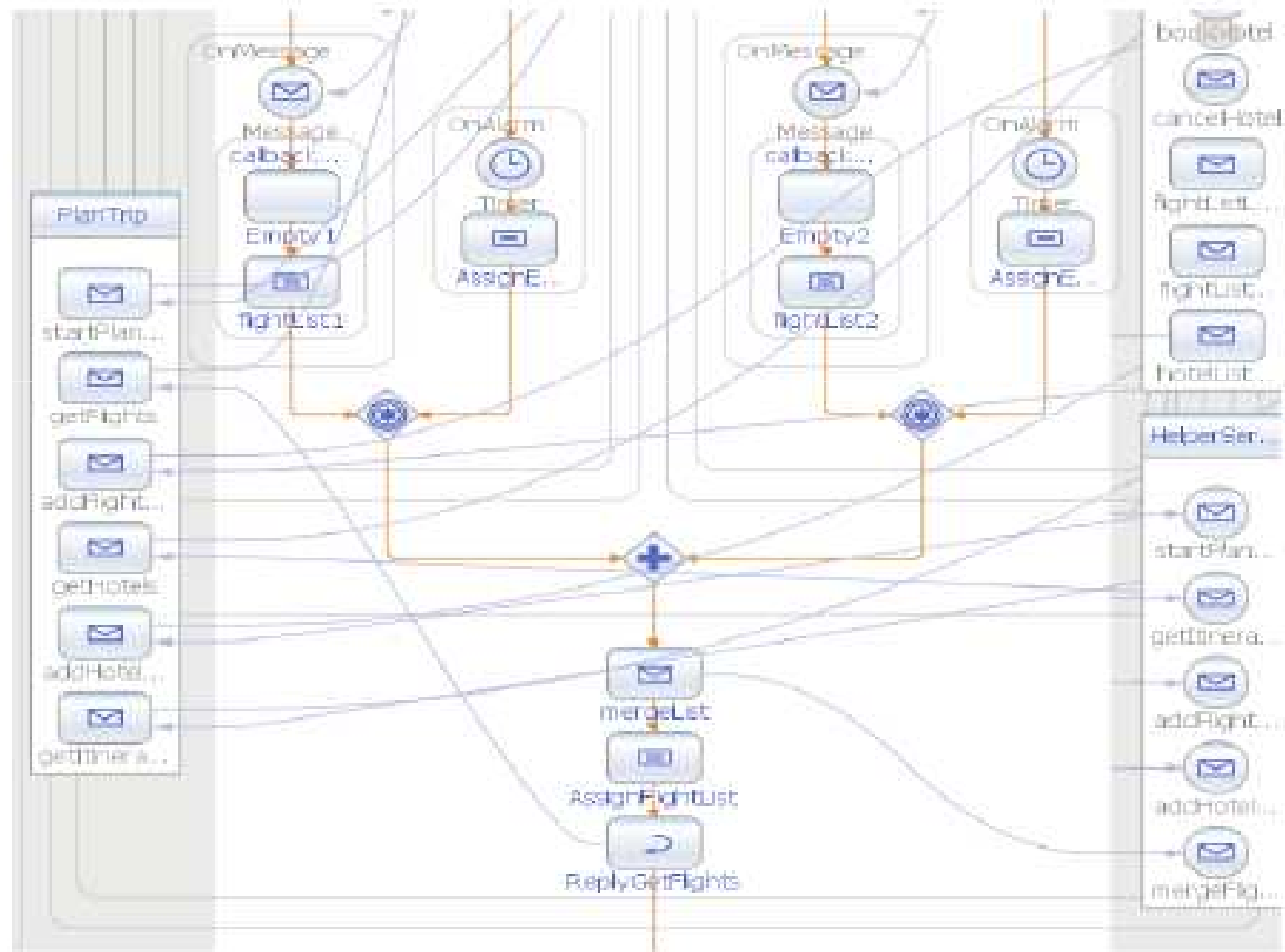
# PlanTrip:Start Planning



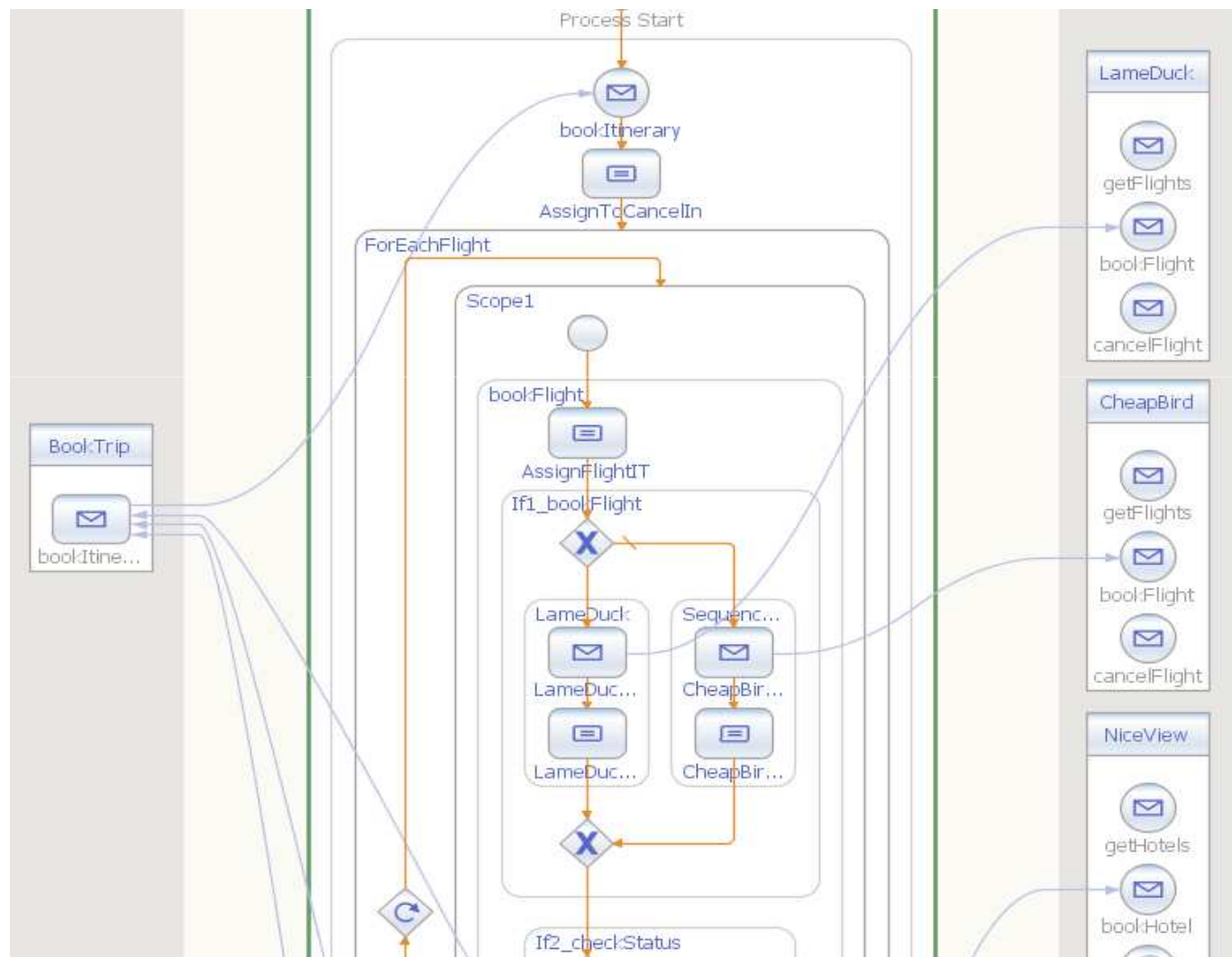




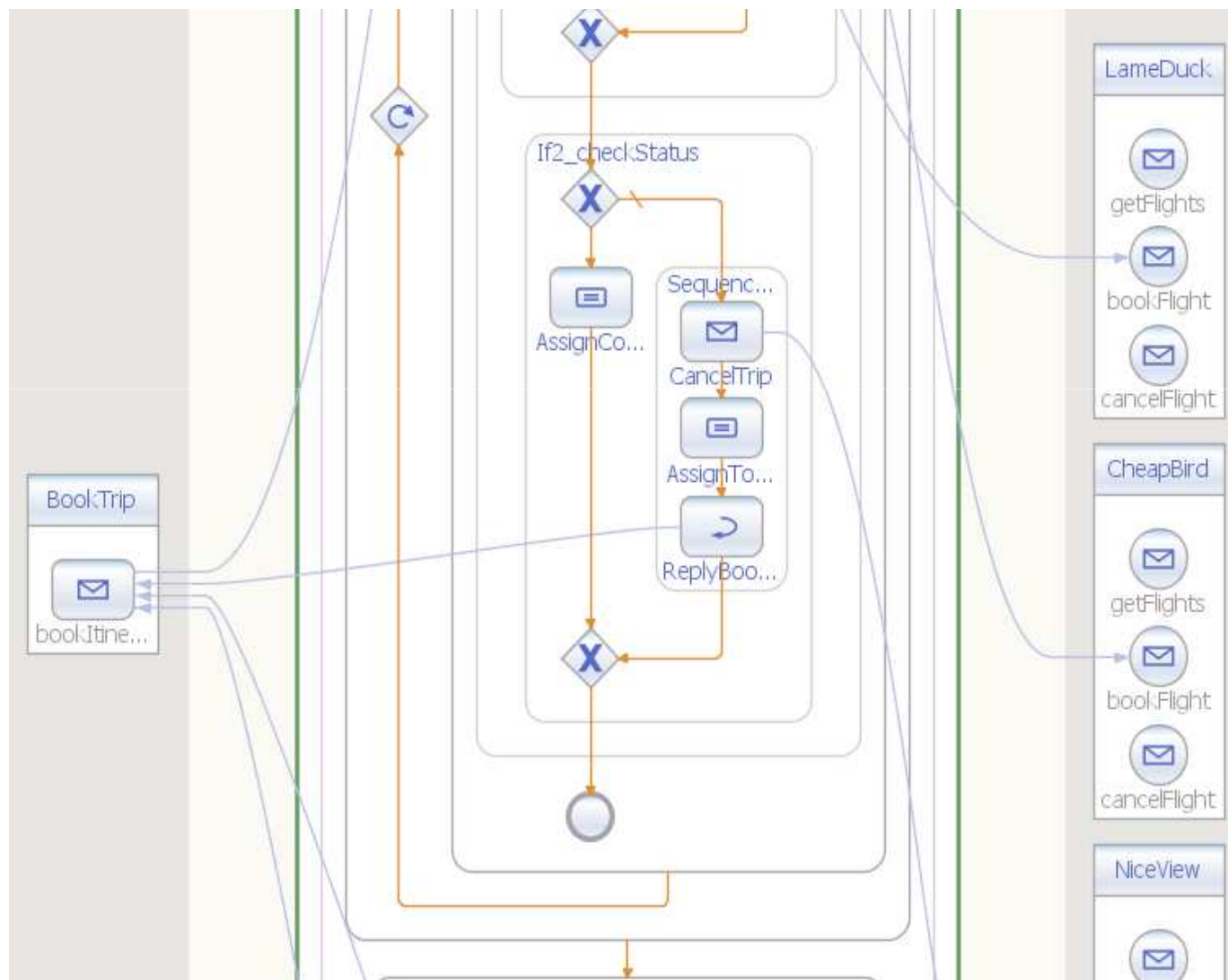
# PlanTrip: Merging flightlists



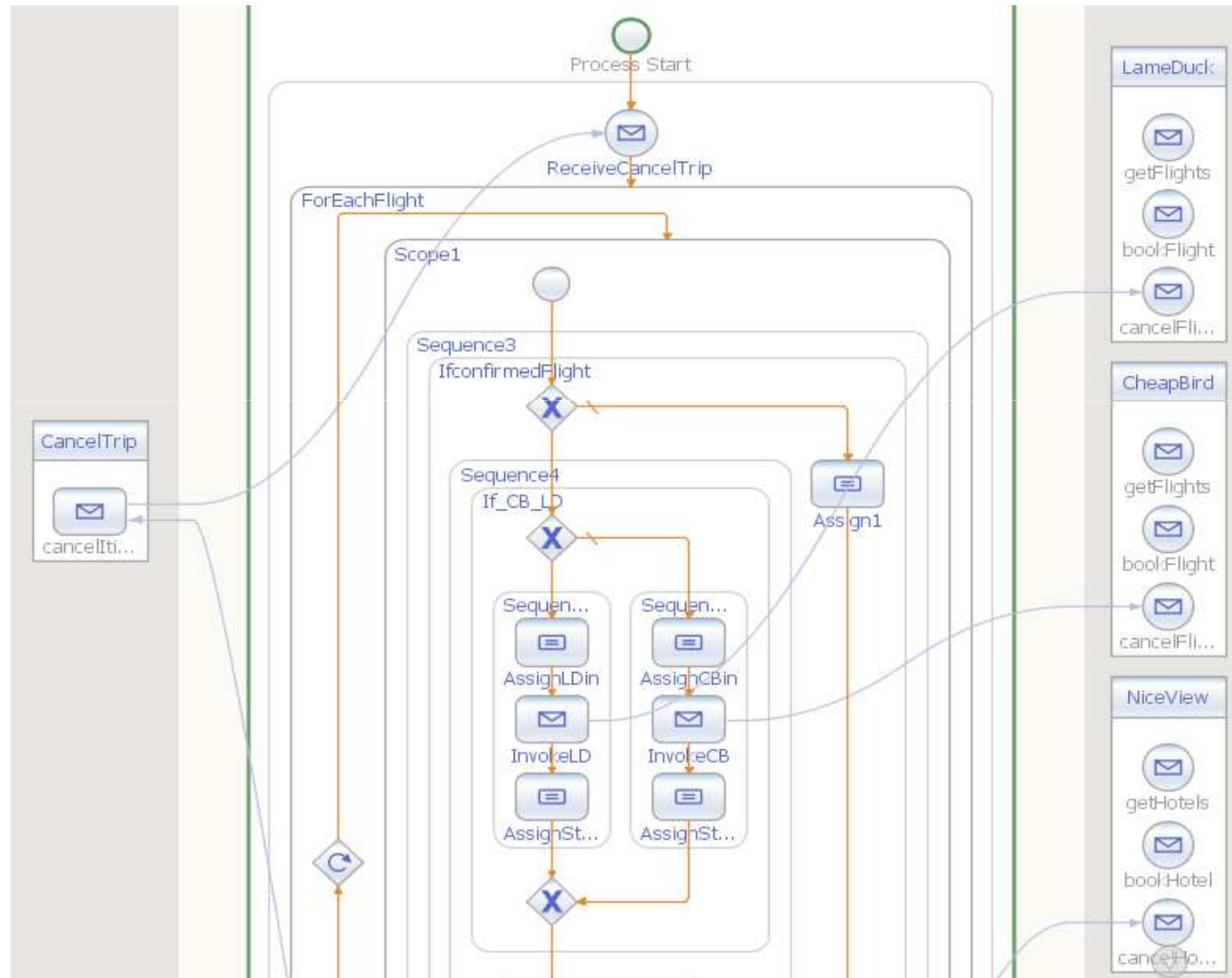
# Book Trip



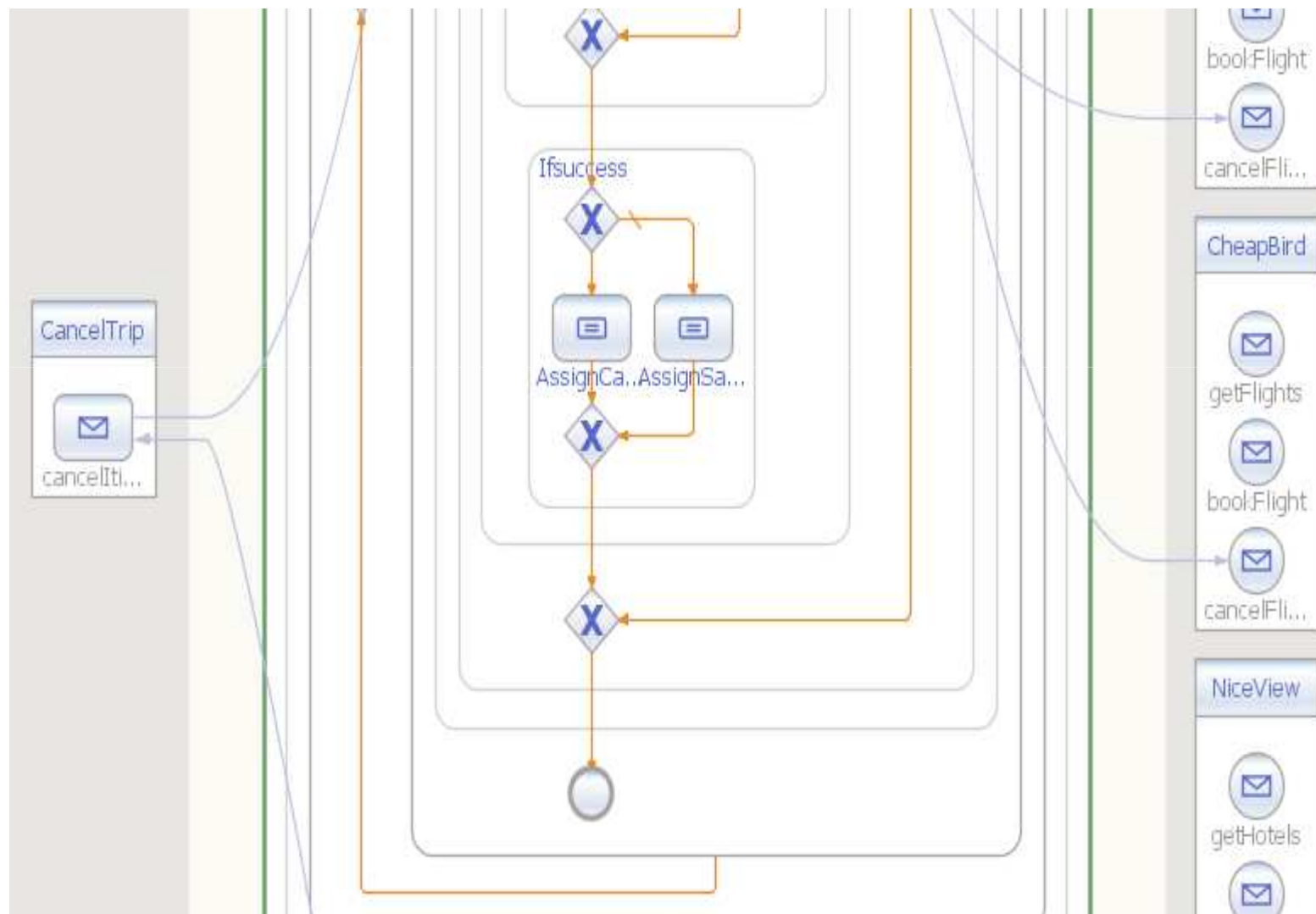
# Book Trip



# Cancel Trip



# Cancel Trip



# Advanced Web Services (1/2)

## ❑ Web Addressing

- SOAP messages do not contain information about "from whom" and "to whom"
- Message information headers and end point references are used.

## ❑ WS Reliability

- SOAP messages are exchanged without any focus on reliability of delivery.
- AtMostOnce, AtLeastOnce, ExactlyOne options for delivery

# Advanced Web Services (2/2)

## □ WS Policy

- Referred as quality of service (QoS) policies, security policies, etc.

## □ WS Security

- Anyone can read, intercept and change the SOAP messages exchanged



# Conclusion

- ❑ Building web service from scratch was a nice experience.
- ❑ Net Beans and Glassfish were quite unstable.
- ❑ Huge Time invested on Bug correction.
- ❑ Course is quite good, teaching is clear and support during the lab sessions is very effective