

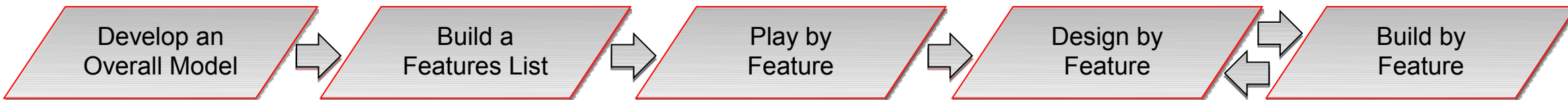
# Server

## for perfSONAR UI app

# Overview

- Agile methods
- Process modell
- Next steps

- Feature Driven Development (FDD)



- Pair Programming



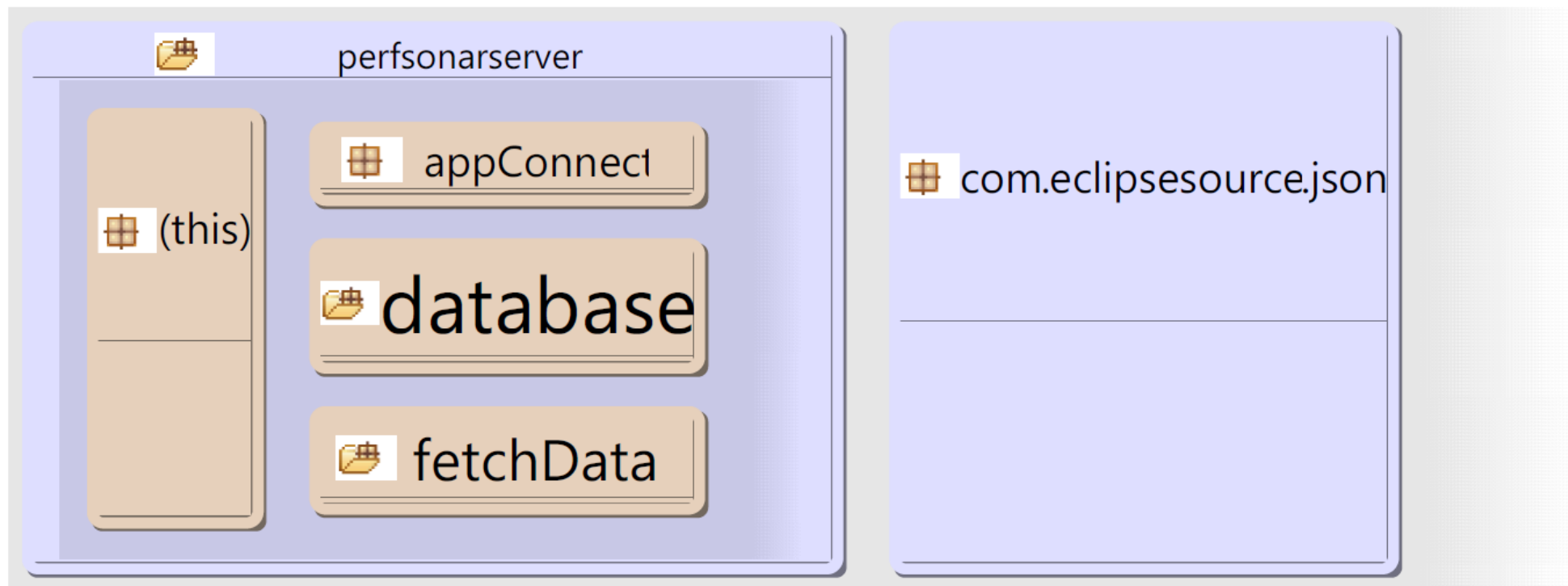
# #1 Develop an Overall Model

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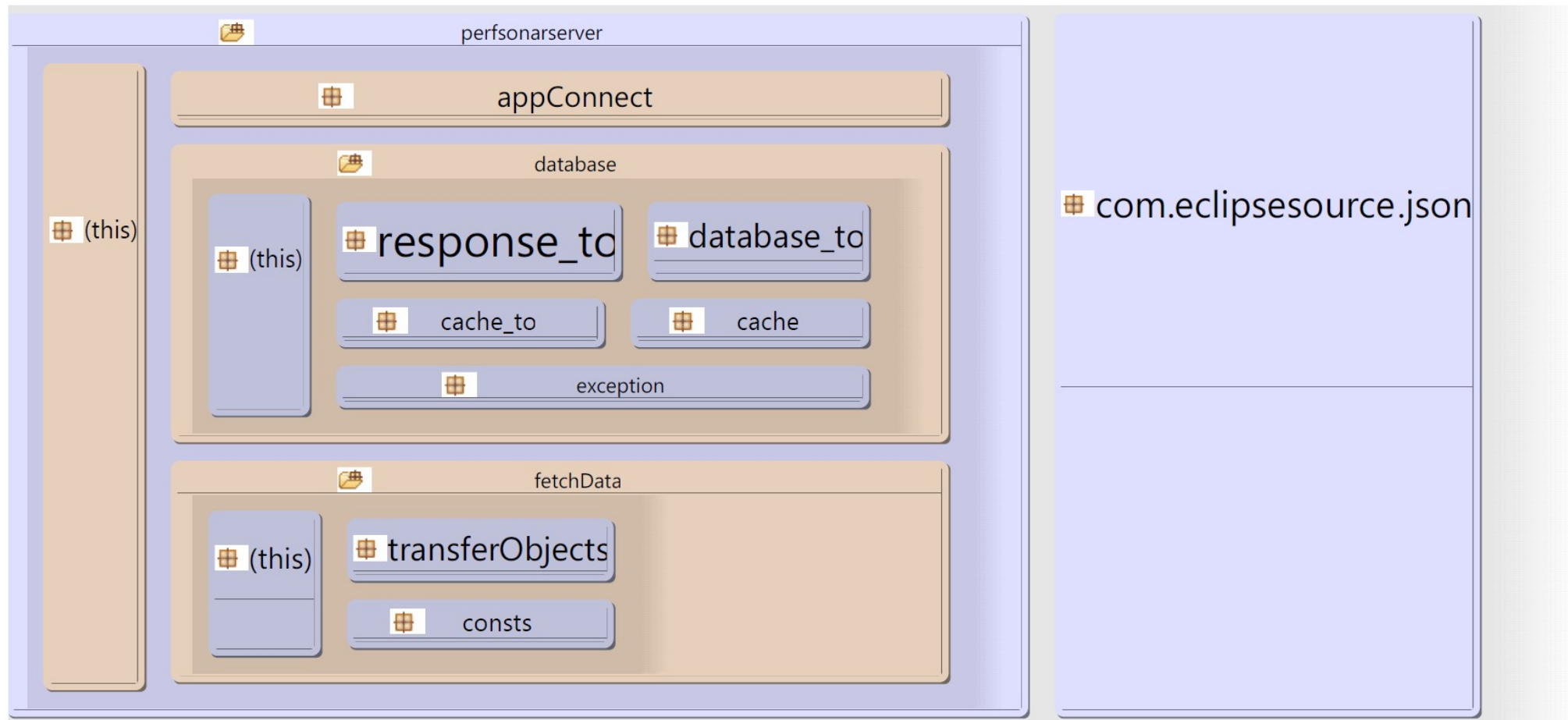
- Server based on Java
- MongoDB database
- JSON files send to APP
- Three Layered Architecture



# Package diagram



# Package diagram



# Class diagram

- Fetch data





# #2 Build a Features List

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- Fetch data
- Transform data
- Store data
- Evaluate data
- Receive request
- Send response





# #3 Plan By Feature

- Fetch data
  - Transform data
  - Store data
  - Evaluate data
  - Receive request
  - Send response
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# #4 Design By Feature

- Fetch data
  - SOAP request via HTTP
- Transform data
  - XML to java objects

# #4 Design By Feature

- Store data
  - Based on MongoDB
  - Caching with chunks
  - Delay, jitter and loss data
  - Multithread capable

# #4 Design By Feature

- Receive Request
  - Request as JSON object by app via HTTP POST
  - Transform JSON to Java TO
  - DB request via Java TO

# #4 Design By Feature

- Send Response
  - Transform Java TO to JSON
  - Send HTTP POST response to app

# Next Steps

- Fetch data
  - Queue for requests
  - Combine utilization interfaces for input and output

# Next Steps

- Database
  - Auto update
  - Implementing other features
  - Delete data thread save
  - Evaluate data

# Next Steps

- Communication with App
  - Implement utilization and dashboard requests
  - Timeout prevention



Many thanks  
for your attention

