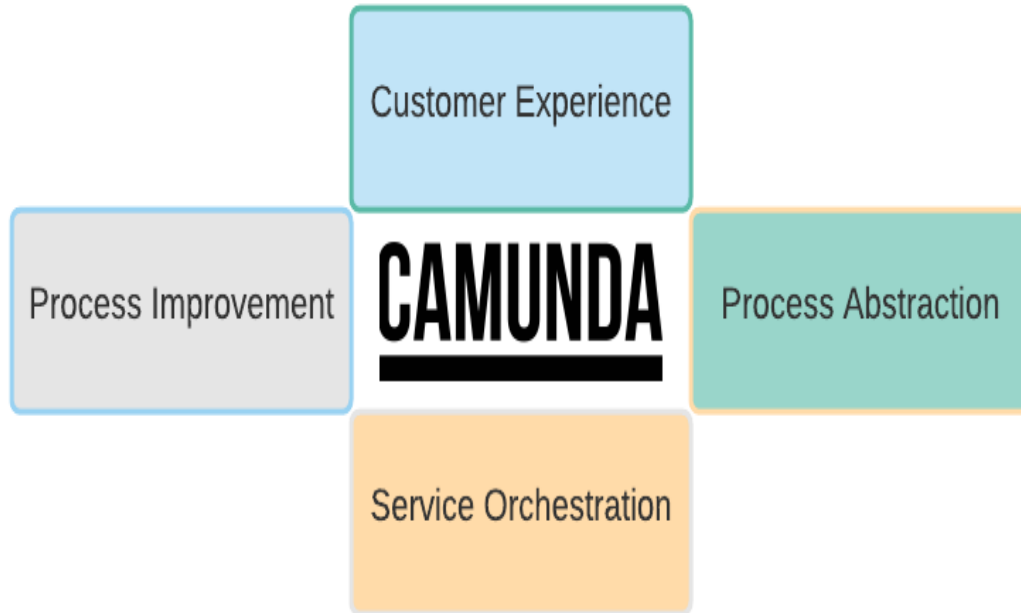


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# Integration Patterns With Camunda

Sowmya Raghunathan

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UI/UX

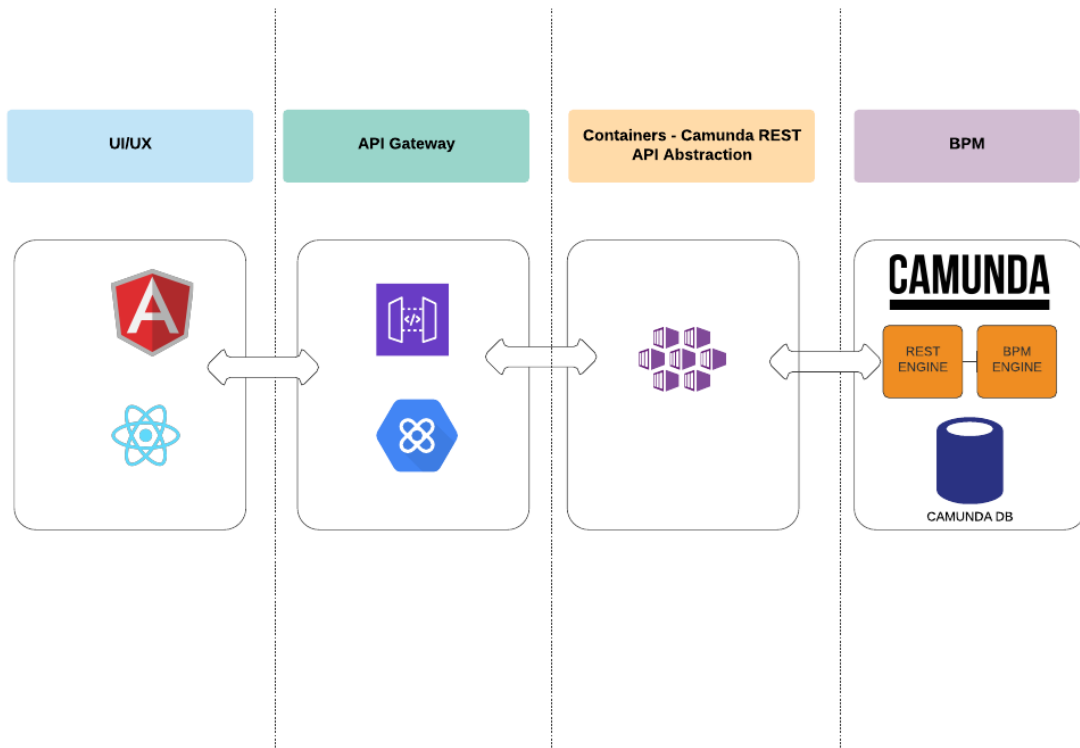
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There is only one **boss**. The **customer**.  
And he can fire everybody in the company from the chairman on  
down, simply by spending his money somewhere else.

-Sam Walton

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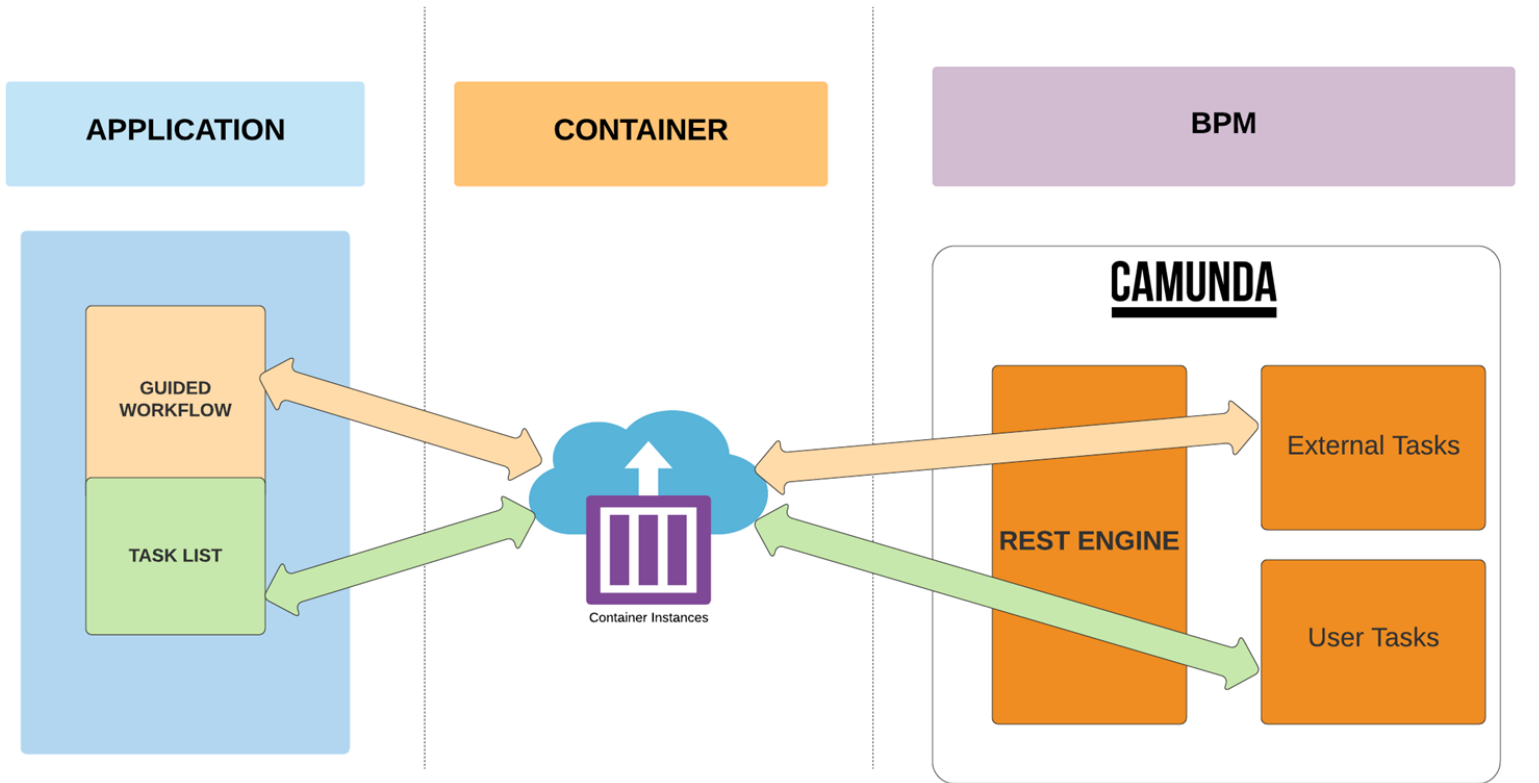
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```
{  
  
  "Key" : "1234"  
  
  "firstName" : "John"  
  
  "lastName" : "Doe"  
  
}
```



```
{  
  
  "id": "aProclnstd",  
  
  "businessKey": "1234"  
  
  "variables": {  
  
    "inputVariable": {  
  
    "type": "json",  
  
    "Value": "data: {  
      "firstName" : "John"  
  
      "lastName" : "Doe"  
  
    }"  
  
  }  
  
}
```

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1. Use reusable smart components to design and model the task list

1. Fetch and pull external tasks using business key
2. Get all tasks pending for a user using business key

# Decouple UI/UX

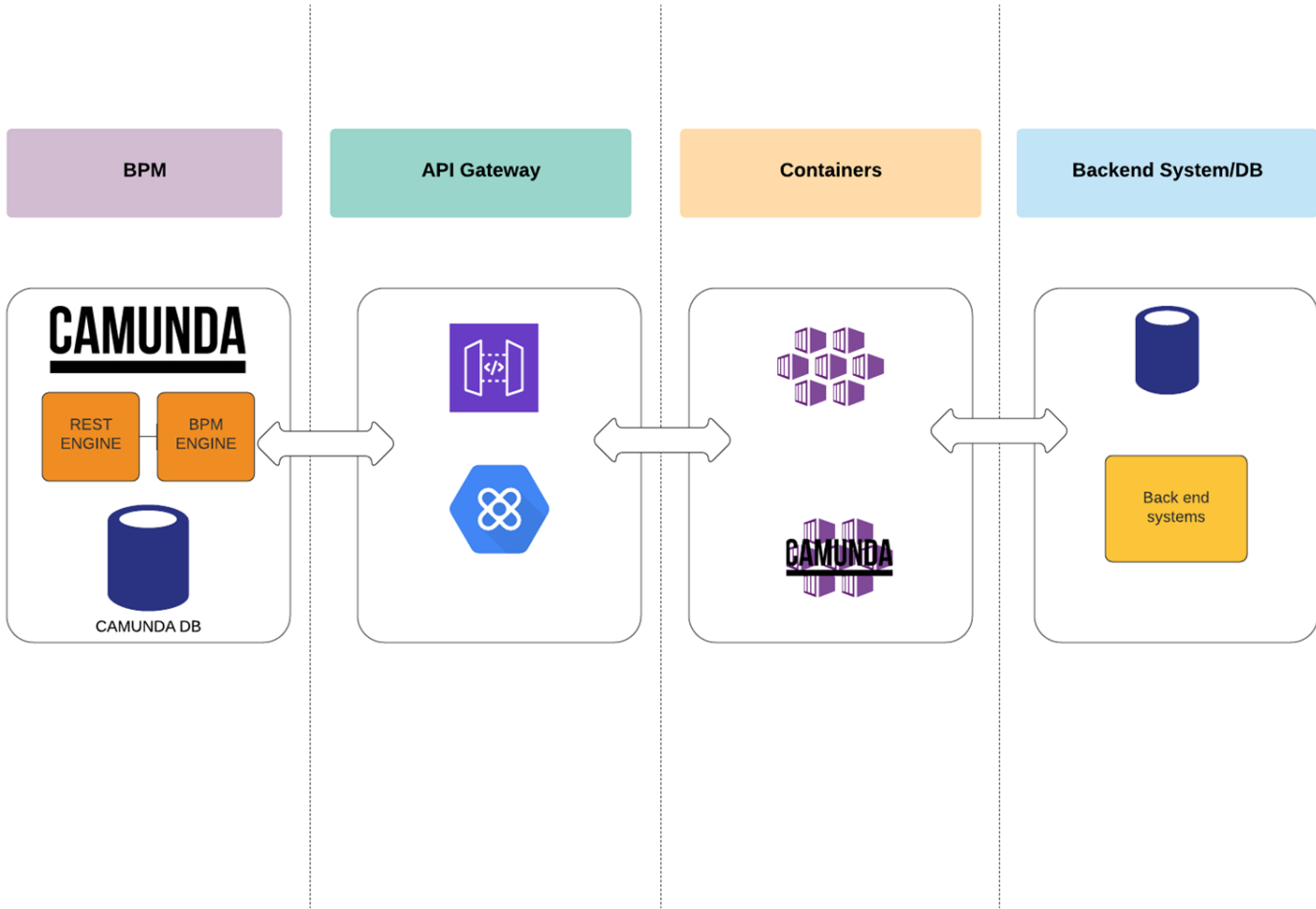
1. Better customer experience for employees and customers
2. Tremendous flexibility to the UX designers
3. Throttling capabilities
4. Better authentication and authorization
5. Ease of maintenance and support
6. Separation of concerns



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# Micro Services/APIs

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# BPM Simplified

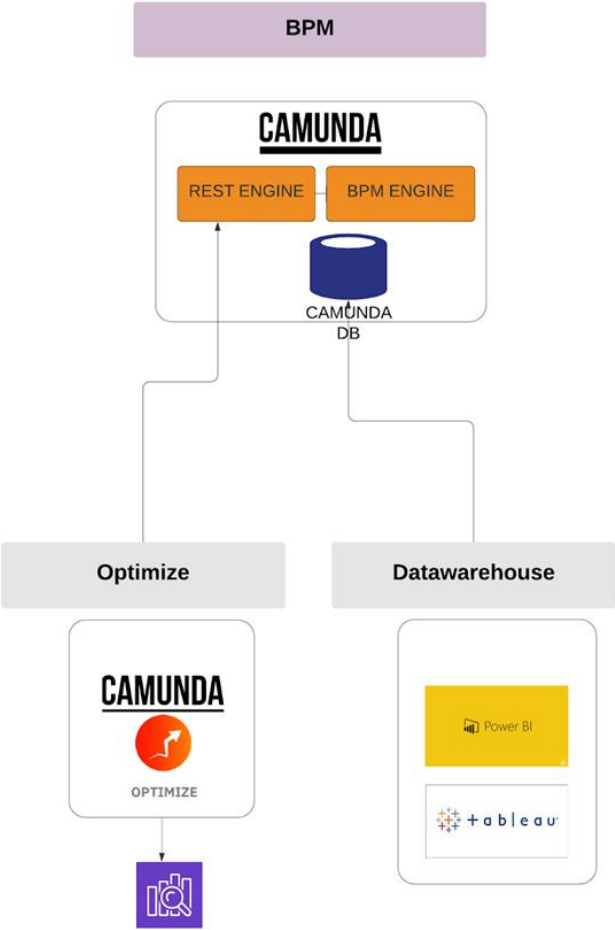
1. Abstract the business logic from BPM
  2. High portability of the process
  3. Light-weight orchestration layer
  4. Faster and better process execution
  5. Practical low code BPM
  6. Reusable Micro process
  7. Best of both worlds - Microservices and BPM
-

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**Optimize and History**

**Fail Fast, Succeed Faster**

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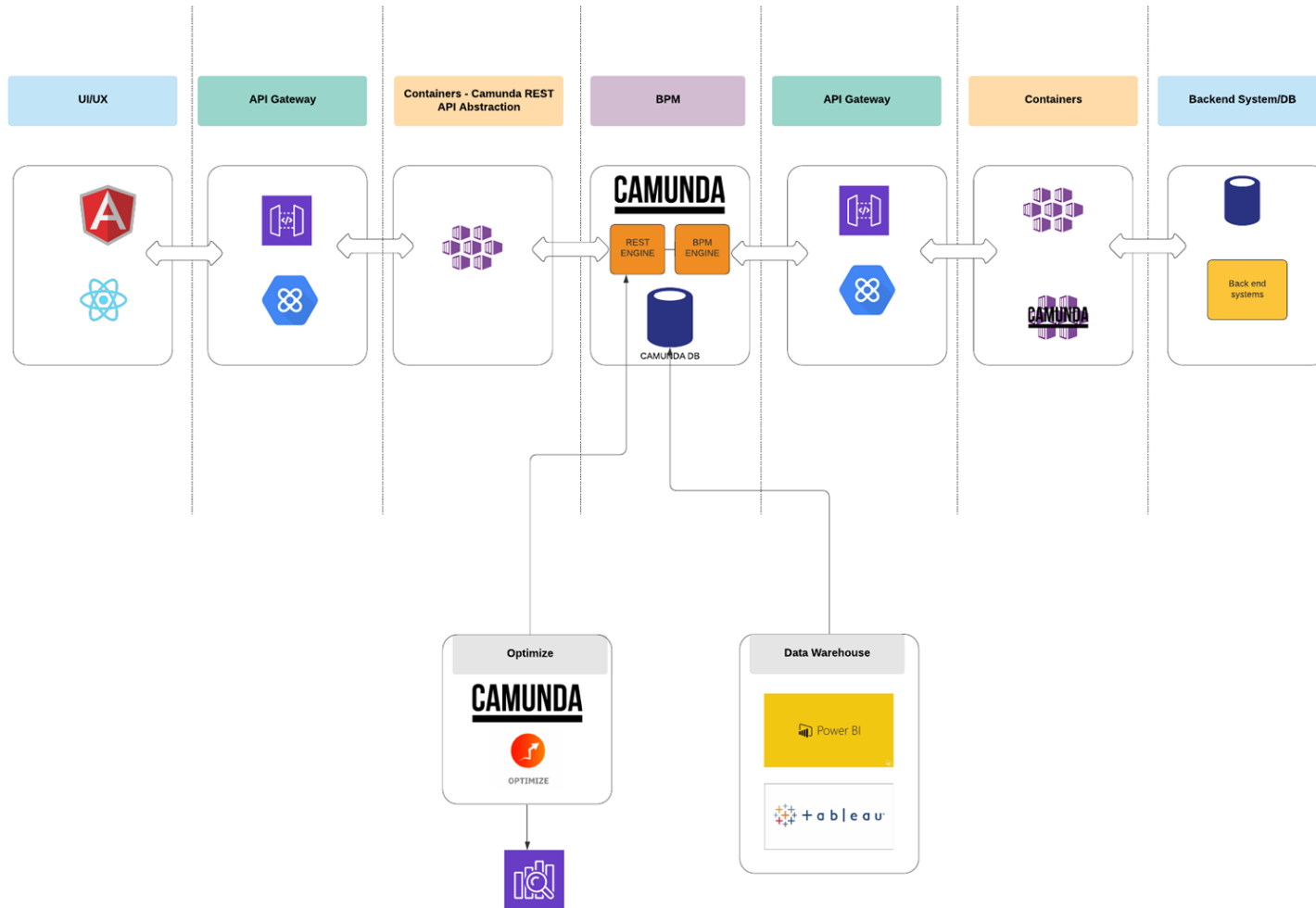
# All about data

1. Small history time to live
  2. Time to live as non functional requirement
  3. Keep the camunda db small
  4. Pull data into Data warehouse
  5. Optimize to the rescue
-

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# Process Abstraction

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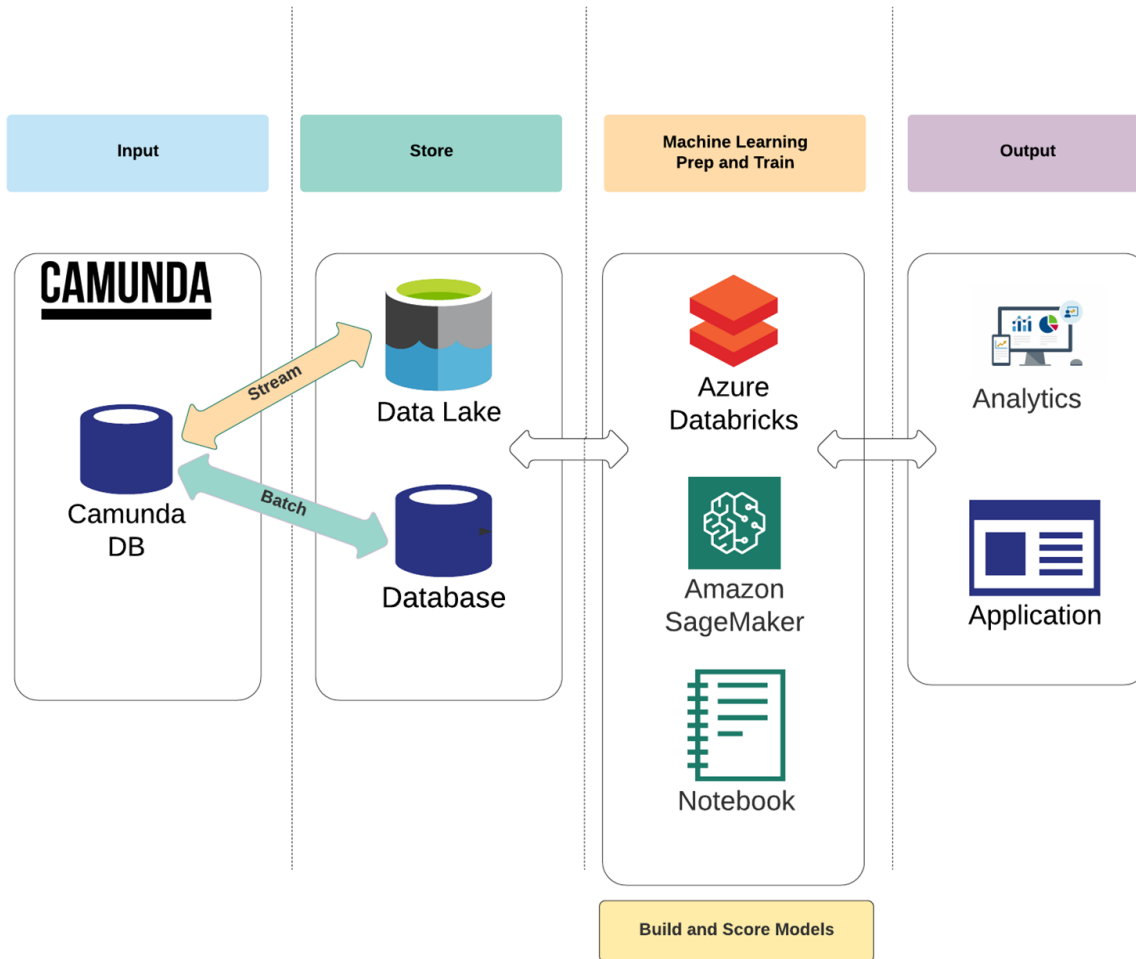




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**AI/ML**

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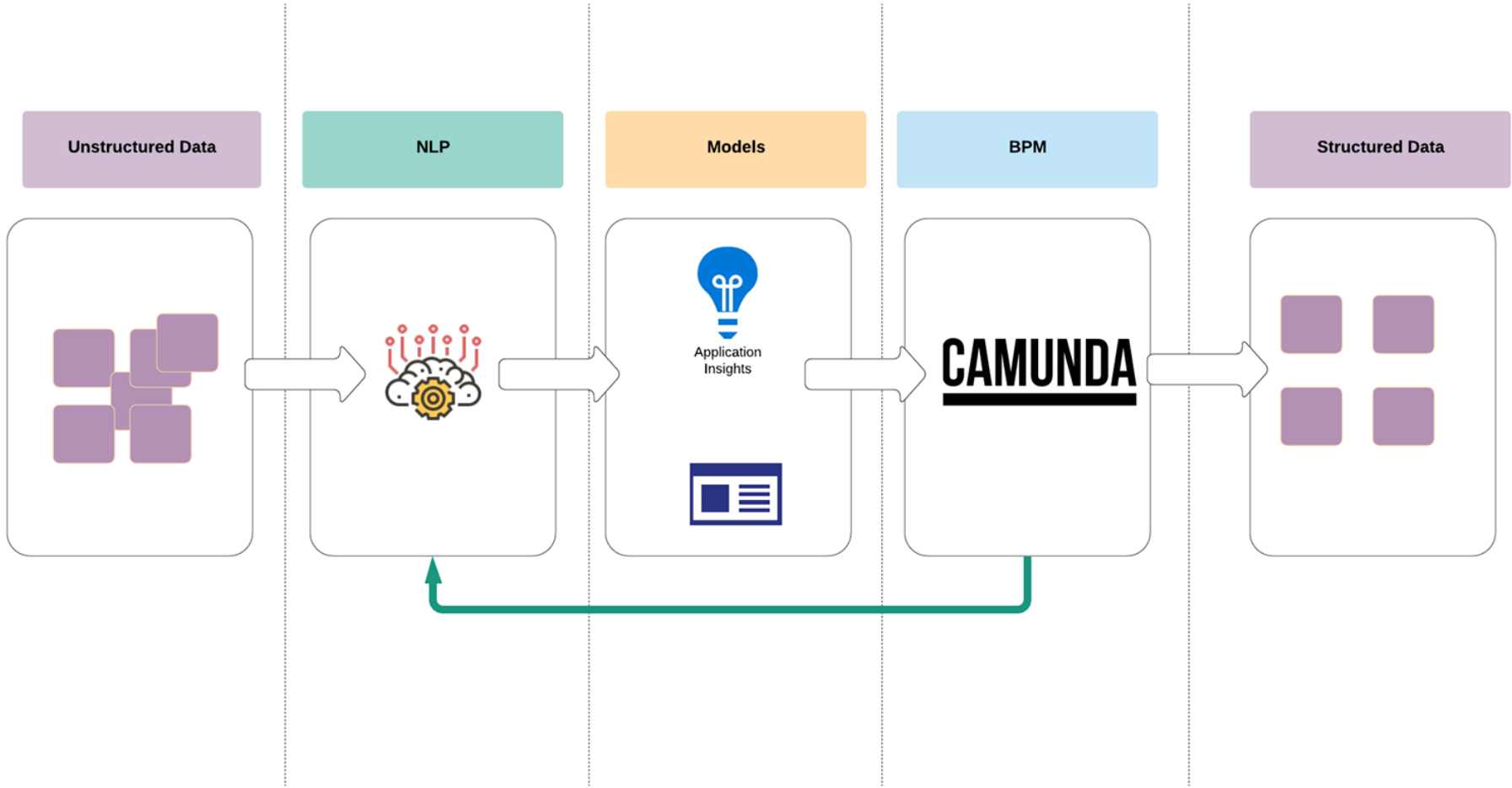


# Machine Learning

## Use Case - Straight through processing

- **Train the brain** - Using DMN & BPM history data, decisions can be automated through use of sophisticated algorithms such as decision tree and neural networks.
- **Benefit** - Automating the hand off between systems with minimal or no manual intervention





# Natural Language Processing

## Use Case - Structuring The Data

- **Natural Language Processing** - Wherever there is a manual task, there is unstructured data. With the combination of NLP and BPM it opens up an brilliant avenue to analyze the unstructured data and also to structure the data for better analytics.
- **Benefit** - Get better analytics and keep the unstructured data as minimal as possible.



# Takeaways

- Abstraction is the key for success.
- Separation of concerns
- Use external tasks to communicate with the microservices/APIs and UX
- Use user task only for tasks not for user journey
- Light-weight bpm engine and database
- Machine learning & Camunda BPM can help automate better and provide structure to data

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**Thank You!**

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