



# Spring Boot Microservices

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Beginner to Guru

Assignment - Complete Transitions



## Thinking in States

- The Credit Card Payment will have the following states:
  - **New** - new payment
  - **Pre Authorized** - Charge Pre Authorized with processor
  - **Pre Authorized Error** - Pre Authorization rejected by processor
  - **Authorized** - Charge approved by processor
  - **Authorization Error** - Charge rejected by processor



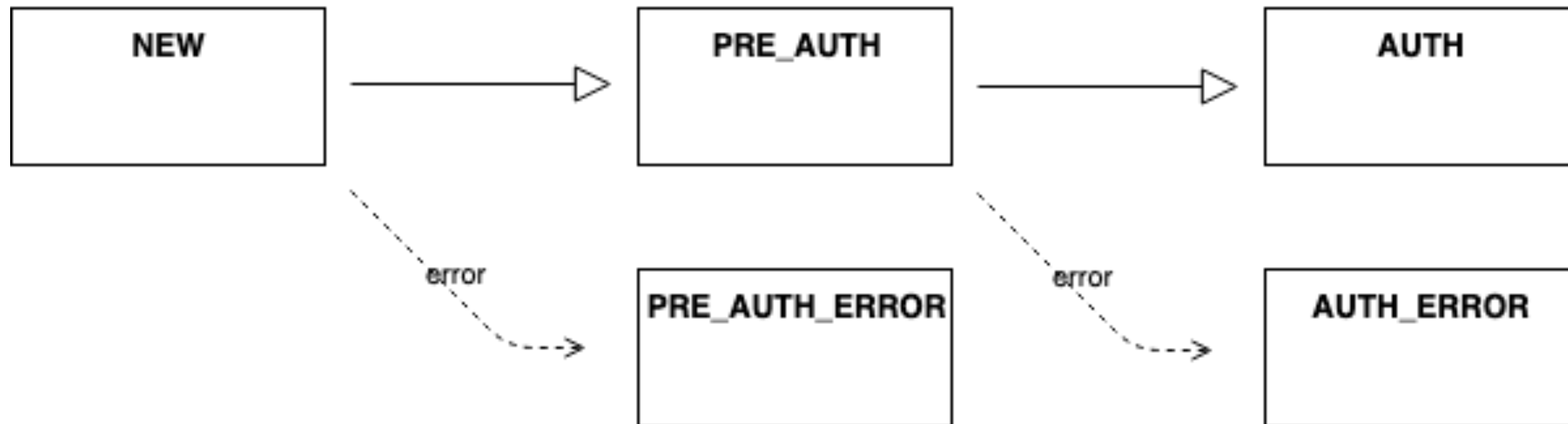
## Thinking in Events

- Credit Card Processing Events:
  - **Pre Authorize Charge** - Call processor for pre auth transaction
  - **Pre Authorize Approved** - Processor approved pre authorize
  - **Pre Authorize Declined** - Processor declined pre authorize
  - **Authorize Charge** - Call processor for charge authorization
  - **Authorization Approved** - Processor approved charge
  - **Authorization Declined** - Processor rejected charge



## Overview

### Payment State Machine



PRE\_AUTHORIZE / PRE\_AUTH\_DECLINED

AUTHORIZED / AUTH\_DECLINED





## Assignment - Complete SM Transitions

- Complete configuration for PRE\_AUTH to AUTH
- Complete configuration for PRE\_AUTH to AUTH\_ERROR
- Add Action for PRE\_AUTH to AUTH or AUTH\_ERROR (use random, like example)
- Add Test for NEW to AUTH / AUTH\_ERROR



