



Part 3: Bitcoin Payment Processor Architecture

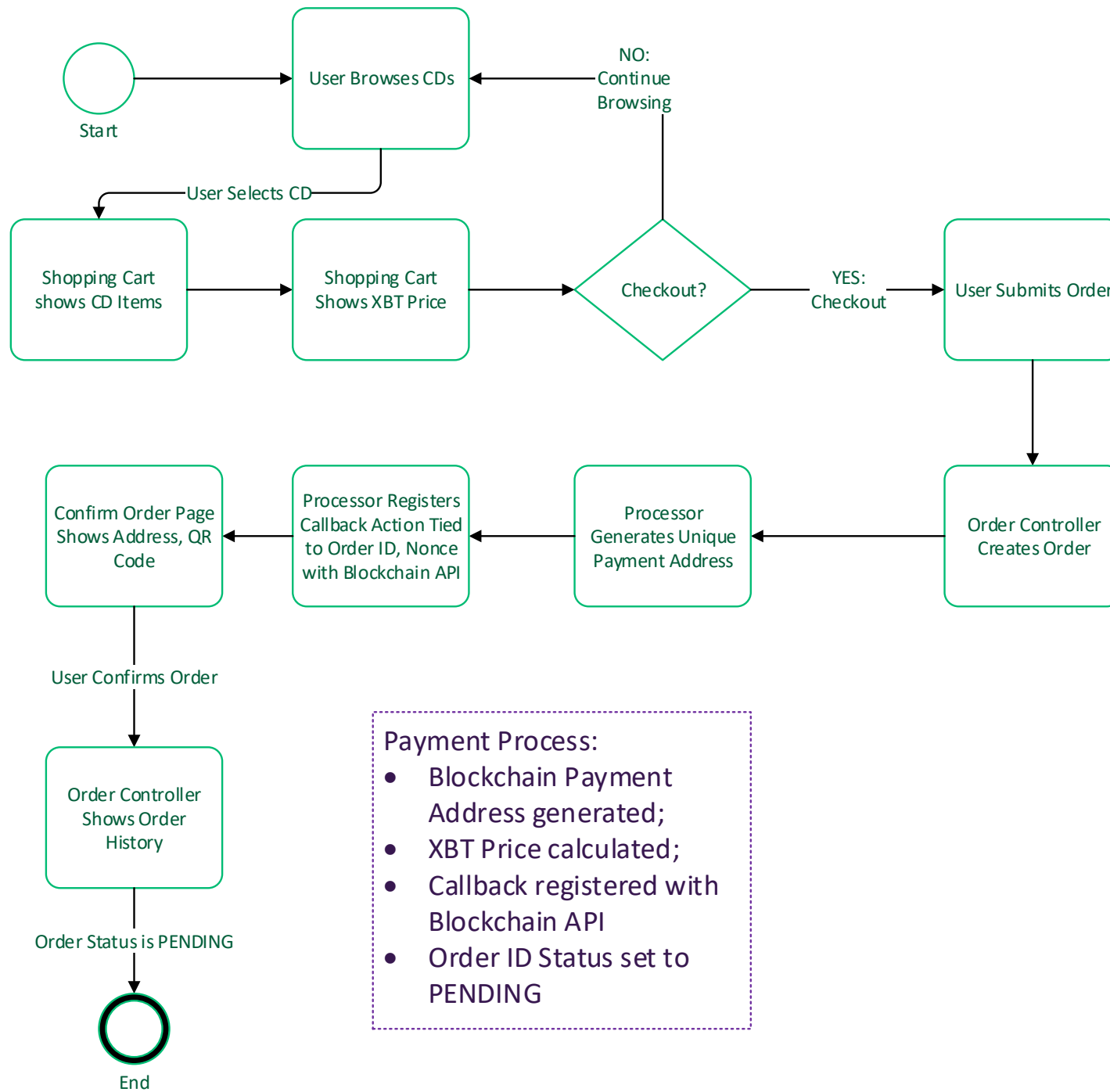
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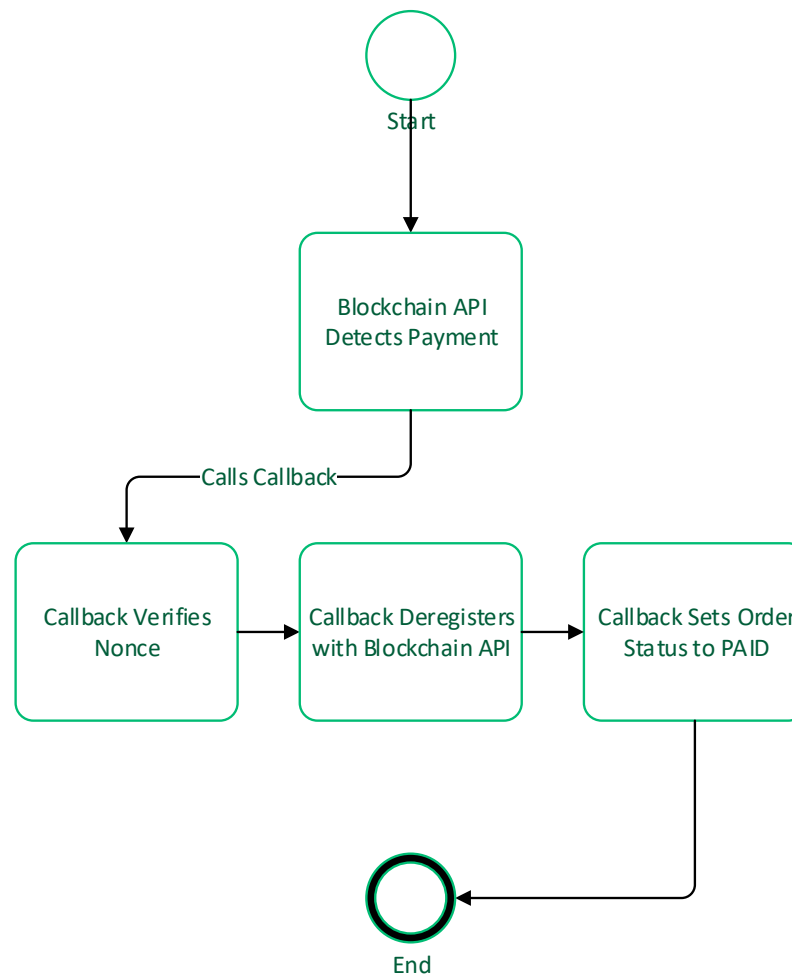
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TEAM SEEDY MUSIC CLUB - CSI5380

Architecture For Bitcoin Payment Processor

- ▶ Two components
 - ▶ Payment Process
 - ▶ Responsible for calculating the XBT price from CAD catalog
 - ▶ Responsible for generating a payment address
 - ▶ Registers a callback
 - ▶ Settlement Process
 - ▶ Listens for notification of payment approval
 - ▶ Responsible for updating order status
 - ▶ Responsible for deregistering callback





Settlement Process:

- Blockchain API detects payment;
- Callback is called;
- Callback is deregistered from Blockchain API
- Order ID Status set to PAID

Implementation Notes

- ▶ Processor
 - ▶ New package: `"club.seedymusic.processor.*"`
- ▶ Controllers
 - ▶ All changes are isolated to the OrderController
 - ▶ No more global failure on every 5th order
- ▶ JSPs
 - ▶ Shopping Cart page to show XBT price
 - ▶ Confirm Order page to show XBT price, Payment Address and QR Code
 - ▶ Order History page to be added to show order status