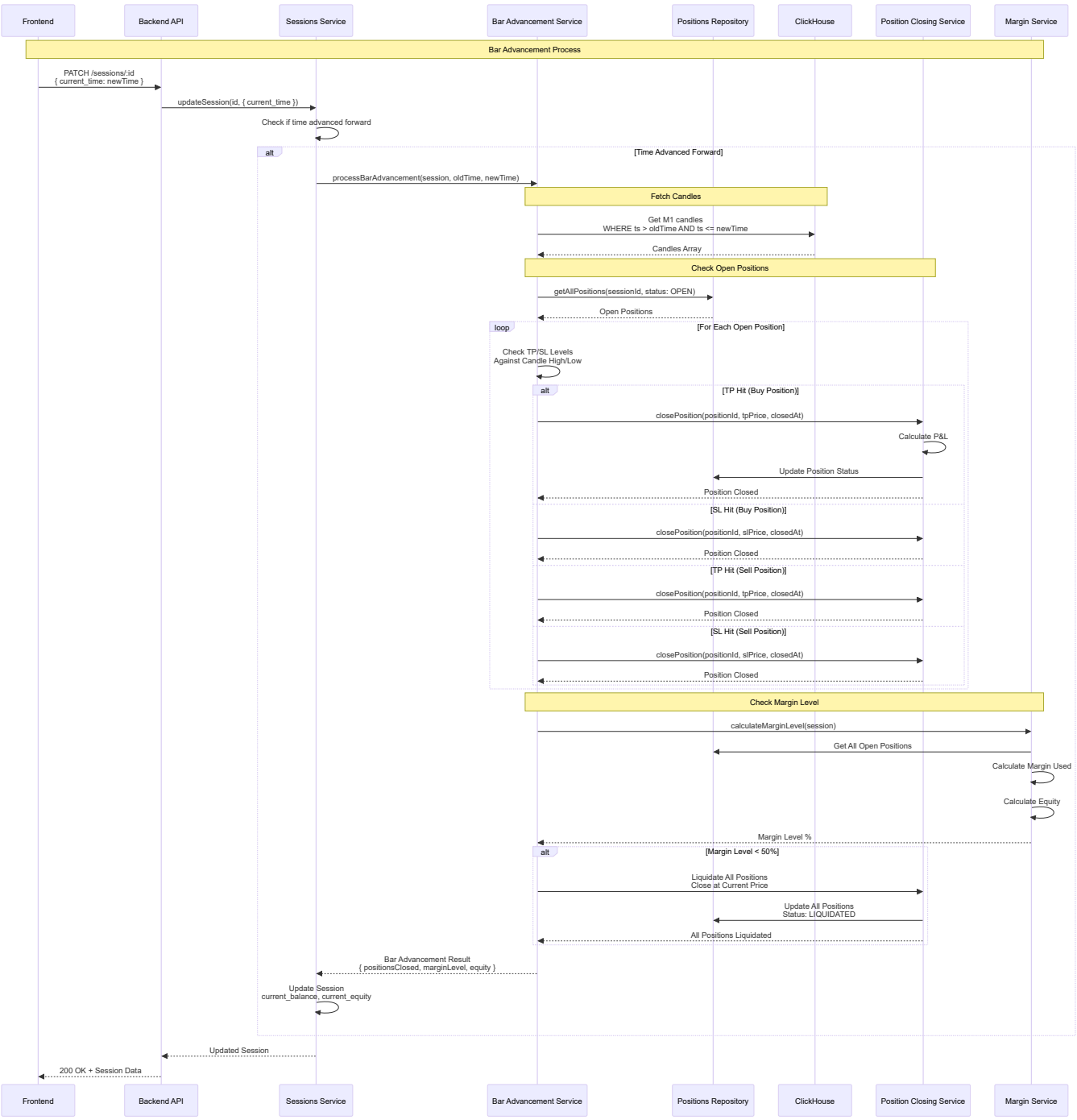
Frontend
Backend API
Sessions Service
Bar Advancement Service
Positions Repository
ClickHouse
Position Closing Service
Margin Service
Bar Advancement Process
PATCH /sessions/:id
{ current_time: newTime }
updateSession(id, { current_time })
Check if time advanced forward
alt
[Time Advanced Forward]
processBarAdvancement(session, oldTime, newTime)
Fetch Candles
Get M1 candles
WHERE ts > oldTime AND ts <= newTime
Candles Array
Check Open Positions
getAllPositions(sessionId, status: OPEN)
Open Positions
loop
[For Each Open Position]
Check TP/SL Levels
Against Candle High/Low
alt
[TP Hit (Buy Position)]
closePosition(positionId, tpPrice, closedAt)
Calculate P&L
Update Position Status
Position Closed
[SL Hit (Buy Position)]
closePosition(positionId, slPrice, closedAt)
Position Closed
[TP Hit (Sell Position)]
closePosition(positionId, tpPrice, closedAt)
Position Closed
[SL Hit (Sell Position)]
closePosition(positionId, slPrice, closedAt)
Position Closed
Check Margin Level
calculateMarginLevel(session)
Get All Open Positions
Calculate Margin Used
Calculate Equity
Margin Level %
alt
[Margin Level < 50%]
Liquidate All Positions
Close at Current Price
Update All Positions
Status: LIQUIDATED
All Positions Liquidated
Bar Advancement Result
{ positionsClosed, marginLevel, equity }
Update Session
current_balance, current_equity
Updated Session
200 OK + Session Data
Frontend
Backend API
Sessions Service
Bar Advancement Service
Positions Repository
ClickHouse
Position Closing Service
Margin Service