

Session EJB (place a wager)

...

Poll event providers

... (WS calls)

Create new event entity EJBs

... (one for each new event)

Create new wager entity EJBs

... (one for each wager)

Event entity EJB (creation)

Set timeout for scheduled time

Event entity EJB (ejbTimeout)

Set event outcome

...

Bill and pay customers as appropriate

... (WS calls to bank!)

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A bad idea from an entity bean!

Event entity EJB (creation)

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...

Send message to "bill and pay" EJB

...

A better idea!



Bill and Pay Message-Driven EJB



MDB (bill and pay)

Enumerate wager entities for given event

Update customer entity

...

Bill or Pay (WS call to Bank)

- Session EJB driven by periodic interval timer
- Daemon process state in database
 - a table managed using JDBC
 - or some entity EJBs
- Allows “batching” of remote invocations
 - improved scalability

Example

