Distributed Data Protocol

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What is Distributed Data Protocol (DDP)?

What does DDP do?

Demo
What is DDP?

A client-server protocol

- It’s the protocol created by **Meteor**
  - Meteor is a full-stack Javascript Framework
- Based on WebSockets
  - WebSockets opens an interactive communication session between the client and a server
What does DDP do?

DDP mainly does two things:

1. It handles Remote Procedure Calls (RPC)
2. It manages data
What does DDP do?

Handling Remote Procedure Calls

● With RPC, you can
  ○ invoke a method on the server
  ○ get something back in return
● DDP can also notify the caller after all the normal operations finished.
What does DDP do?

Handling Remote Procedure Calls

1. The DDP client (arunoda) invokes the method
2. The DDP server (bank) sends a message with an updated balance
3. Some time later, the DDP server notifies the success
What does DDP do?

Managing Data

- A client can use it to
  - subscribe into a real-time data source
  - get notifications
- The DDP protocol has three types of notification:
  - added
  - changed
  - removed
What does DDP do?

Managing Data

1. The DDP client (sacha) sends a subscription request
2. She will receive a couple of added notifications
3. DDP will send a special message called ready
4. Some time later, after arunoda has sent his transfer, sacha will receive the transaction
Demo