COMP 512 P1

Group 9:
  Luke Emery-Fertitta
  Jonathan Campbell

Part 1: Web Services

* Middleware service between client and server.

    * Implements ResourceManager.

    * Delegates flight / room / hotel operations to respective RM servers.

    * Uses WSClient class for communication with RMs.

    * Handles all customer-related operations, talking to RMs if needed (e.g. reserveItinerary).

Part 2: TCP

* Objects sent over Sockets.

    * Object send(Object… message) { }

* New thread for new client connection at middleware & server.

* Server invokes methods with reflection.

Concurrency

* Read-only methods can run at any time.

* Methods that write will lock on relevant hashtable.

* Methods synchronized on both middleware & server.

Tests

* JUnit integration tests

  * Sequence of commands passed to client.

  * Compares client output with expected response.