

# *Introduction to Quartz*

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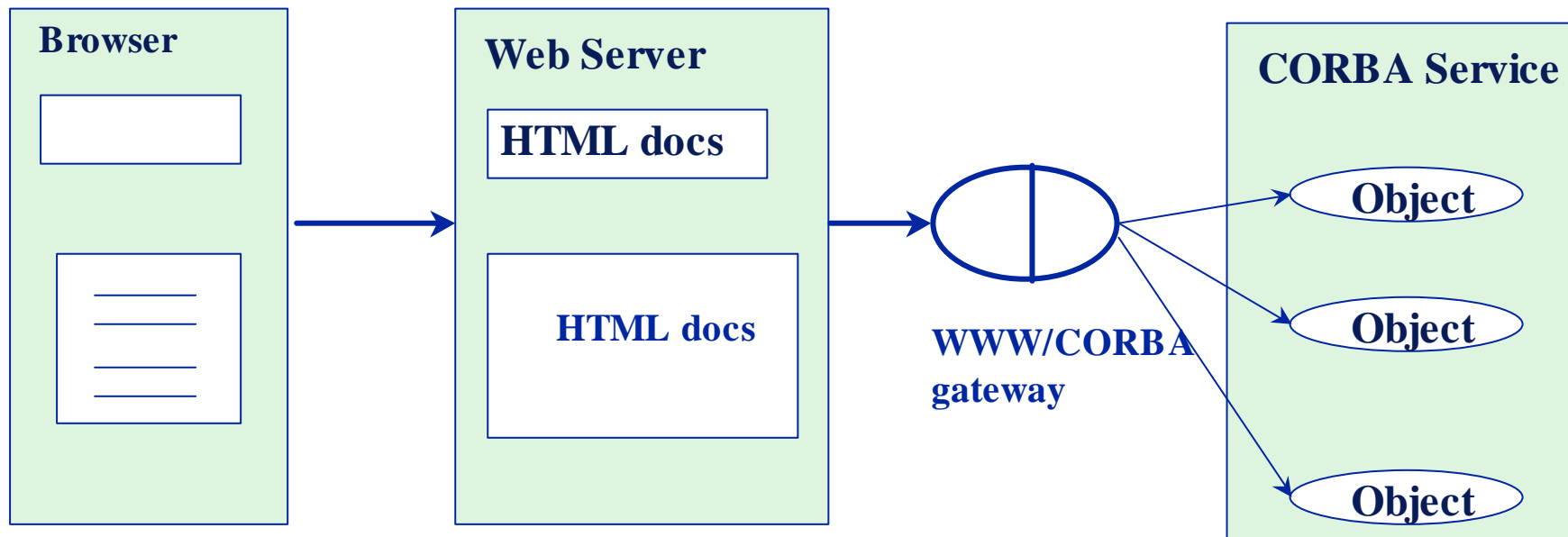
# *Idea of Quartz*

- Make CORBA services
  - available widely and easily
  - accessible from desktops and consumer equipment
  - simple to use
- Combining email, WWW and object technology
  - allow CORBA objects to be accessed from Web
  - use email and WWW for service distribution
  - use Web browser as user interface



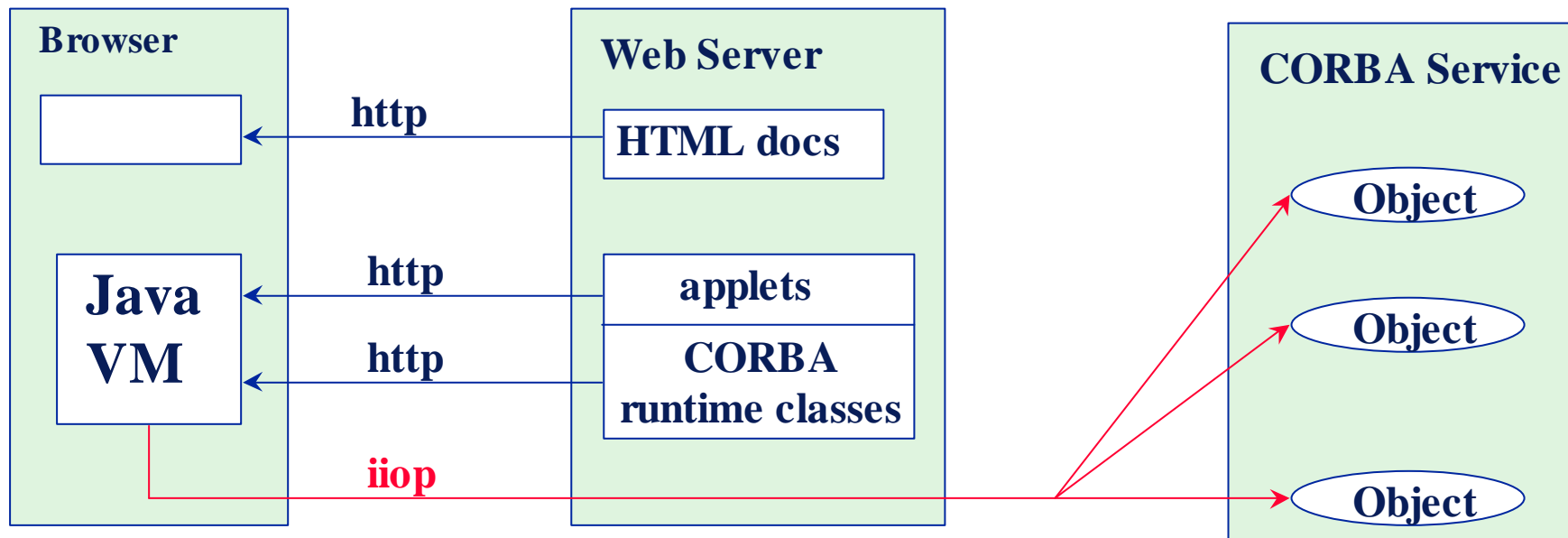
# CGI Approach

- Interface for external programs to HTTP server
- Define the format of the data stream between Web server & gateway
- Define the environment variables to the gateway

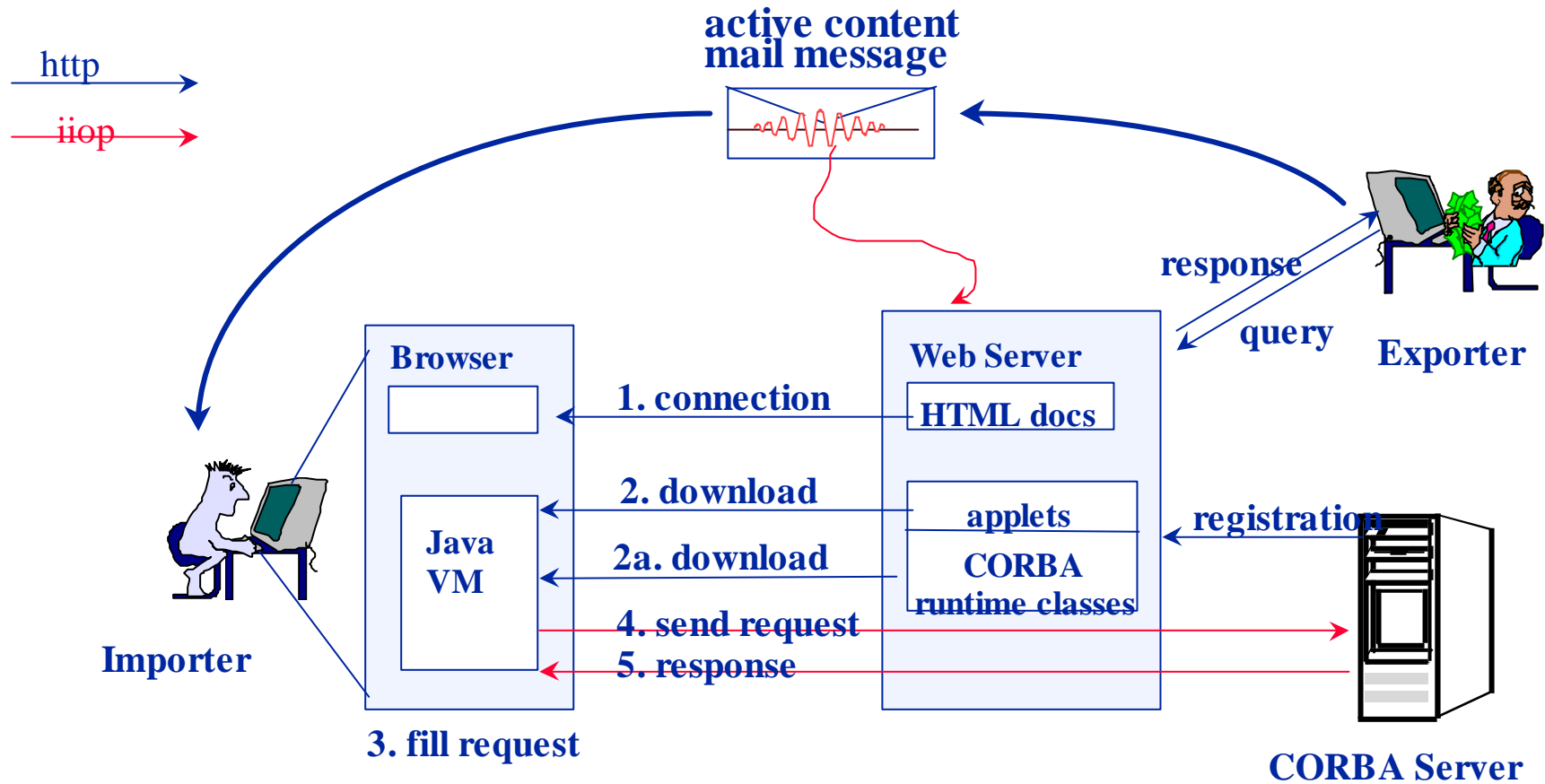


# *Java as the Connection*

- CORBA clients written in Java
- CORBA runtime classes implemented in Java
- Java applets can be “iiop-enabled” on the fly
- No pre-installed components

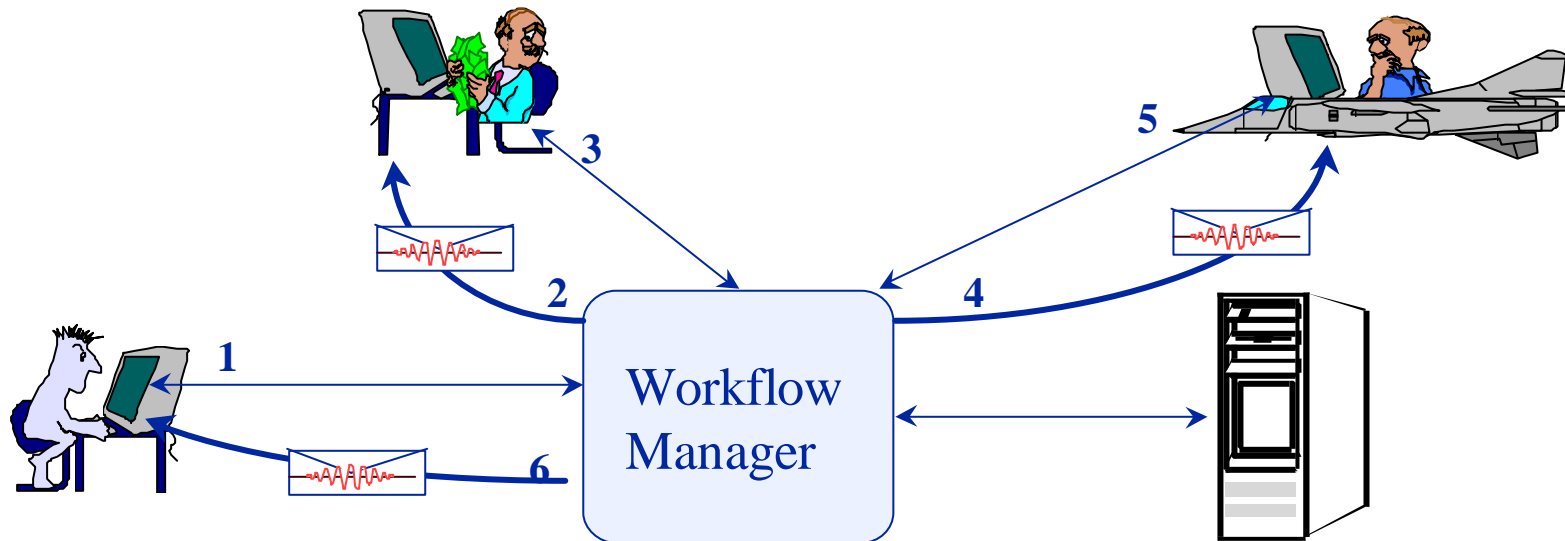


# Scenario



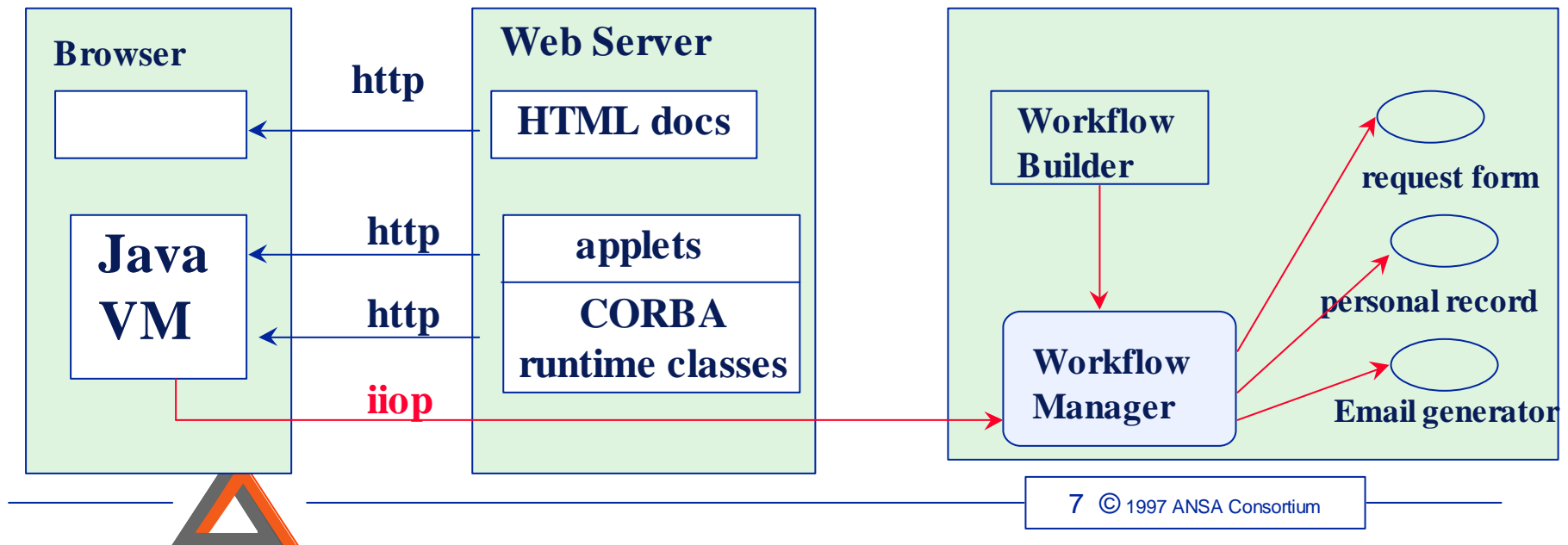
# *Example: Holiday Request*

- Employees: submit request (workstations)
- Secretary: check available holiday time (PC)
- Manager: make decision (notebook)



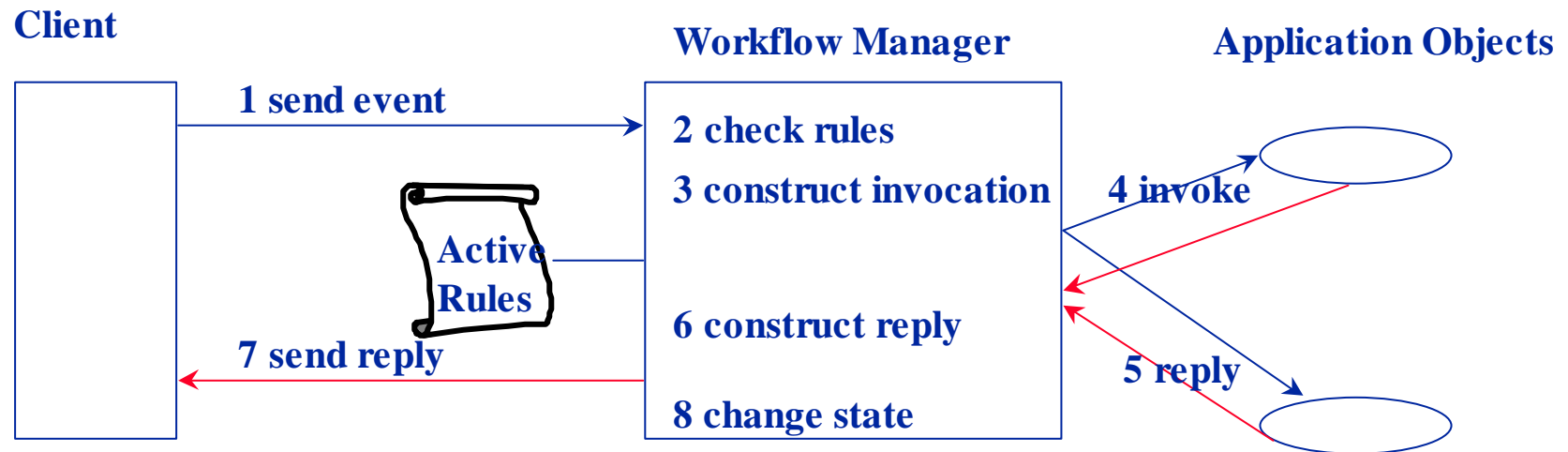
# *The Architecture*

- Workflow manager
  - object invocation based on an event-action table
- Workflow builder
  - define an event-action table for an application
- Application objects
- Web clients



# Workflow Manager

- A reusable component: independent from particular applications
- Monitor and control the process of a workflow according to the specified active rules





# *Benefits*

- Accessible from different sites and different platforms
  - workstations, PCs, and notebooks
- Low cost connection and installation
  - email, Web infrastructure, and Java interpreter
- Simple user interface
  - Web browser
- Easy access to related information
  - on-line help, and related events



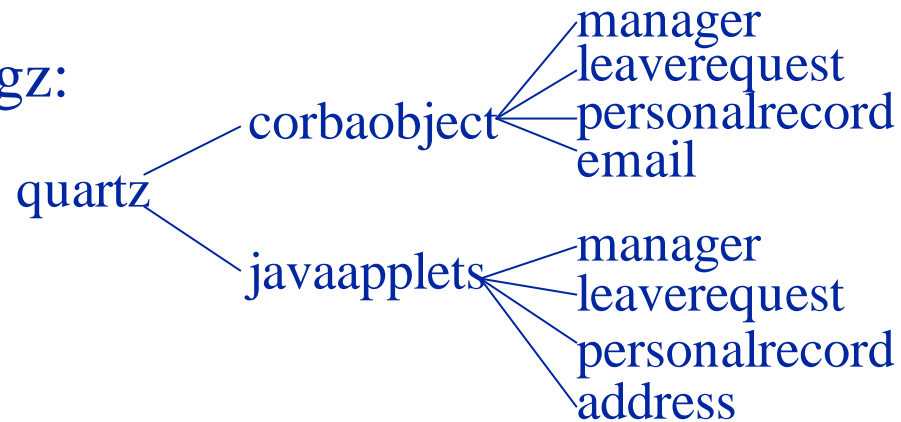
# *Deliverable*

- Architecture report
  - architectural features and design decisions (APM.1765)
- Reusable object components
  - workflow builder
  - workflow manager
- Demonstration application
  - an electronic leave request application system
    - CGI version
    - Java version
- Download: OL/prototype/quartz
  - Quartz-InstallGuide-01.txt
  - quartz.server.01.tar.gz
  - quartz.web.01.tar.gz



# *File Architecture*

■ quartz.server.01.tar.gz:



■ quartz.web.01.tar.gz:

