AuctionBase

Project Part 3 Help Session
CS 145
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Agenda

- Functionality Demo
- Using PHP
- Using web.py
- Tips

Required Functionality

- Manually change the "current time".
- Enter bids on open auctions.
- Automatic auction closing.
- See the winner of a closed auction.
- Browse auctions of interest based on at least 3 different criteria.
- Find an auction based on itemID.

PHP

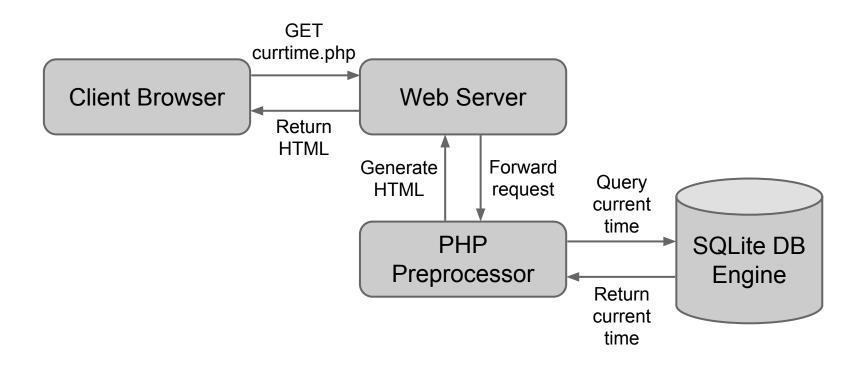
Starter code

- timetable.html HTML fields for selecting time.
- selecttime.php Form processing script.
- sqlitedb.php Establish connection to DB.
- currtime.php Retrieve & display current time.
- navbar.html Display links to all pages.

Getting Started

- Copy starter code into a directory in cgi-bin/
- Copy DB into the same directory.
- Change DB name in sqlitedb.php
- Change attribute name in currtime.php
- Test correct "current time" gets displayed when currtime.php is requested.

The Client-Server Model



A Sample DB Query

Change "current time".

```
include ('./sqlitedb.php');
```

A Sample Transaction

Change bidder IDs of all bids to the specified name.

```
try {
 $db->beginTransaction();
 $st1 = $db->prepare("select 1 from User where userId = :name");
 $st1->execute(array(":name" => $entername));
 if(!$st1->fetch())
   throw new Exception ("Bidder user identifier doesn't exist.");
 $st2 = $db->prepare("update Bid set bidderId = :name");
 $st2->execute(array(":name" => $entername));
 $db->commit();
 catch (PDOException $exception) {
 $db->rollBack();
 echo "PDO Exception: " . $exception->getMessage();
```

Retrieving Results

Next Steps

- Create index.html
- Implement:
 - Listing of auctions.
 - Search criteria.
 - Item display.
 - Bidding.
 - Other required functionality.

web.py

- Tour of the starter code.
- Debugging in web.py
- Composing templates.
- Transactions in web.py

PHP vs. web.py

- Pros for PHP
 - Learning curve: easier to pick up.
 - Very stable codebase, been used for many years.
- Pros for web.py
 - Simpler and cleaner syntax.
 - Good introduction into more advanced web application development.

Extra Functionality

- An endless list
 - Build snazzy UI.
 - Add user authentication.
 - Put new items up for bidding.
 - Display bidding statistics.
 - 0 ...
- Don't break required functionality!

Tips

- Start early!
- Read the assignment text carefully.
- Finish required functionality before extras.
- Keep a backup copy of your DB handy.
- Make sure triggers have been created on DB.
- Create multiple folders in cgi-bin to run different versions simultaneously.
- Submit all files required to run the site, including your DB.