



PeopleTools v8.53 Development Tools

PeopleCode Course



About this course

Introductions

Course Instructor – John Beretz



- Professional PeopleTools Consultant - 10 Years
 - HCM, FSCM, Staffing
 - Enhancements
 - Upgrades
 - Occasional Instructor 😊

- Formerly Developer, PeopleSoft – 8 Years
 - Financials Applications
 - PeopleTools Reporting
 - Enterprise Services Management

- Expertise
 - User Experience Design
 - Software Architecture

About this Course

➤ Goals

- Learn how to develop simple applications using PeopleTools
- Basic understanding of PeopleCode
- High-level understanding of PeopleTools architecture
- A solid foundation for learning more

➤ Accelerated approach

➤ “Hands-on” – activities accompanying each section

➤ Different method than traditional PeopleSoft course

- No step-by-step guide
- Interactive
 - Q&A throughout sessions, and at the end of each day
- Dynamically paced
- Content tailored to most useful concepts and skills

Course Agenda (Subject to Change!)

- **Day 1: Introducing PeopleCode**
- **Day 2: PeopleCode and the Component Processor**
- **Day 3: PeopleCode Language and Conventions**
- **Day 4: Object-Oriented PeopleCode**
- **Day 5: Advanced Techniques and Special Topics**

Introductions

Tell me about yourself



- What's your PeopleSoft experience?
- What's your programming experience (any technology)?
- Technology interests?
- What do you like/dislike about PeopleSoft/PeopleTools?
- What will you be working on in the year ahead?

Housekeeping

➤ **Each day begins with review of material from day before**

➤ **Ask lots of questions**

- If I don't know the answer I'll find it ASAP
- Special topics: We'll circle back, time permitting

➤ **Breaks: Dedicated time for email, etc.**

➤ **My email: john.beretz@spearmc.com**

- Send me comments, feedback, special requests anytime

➤ **Send me an email now**

- Name
- PeopleSoft User ID
- Special topic you'd like covered
- Having your email address means I'll be able to send you content during the week



Introducing PeopleCode

Anatomy of a PeopleSoft Application - Demo

➤ The signon page

➤ The portal home page

➤ The menu

- All functionality user has access to
- Favorites

➤ The search page

- Add: Enter key values
- Find Existing
 - Enter search criteria – Basic and Advanced
 - Select item from results list

➤ The pages

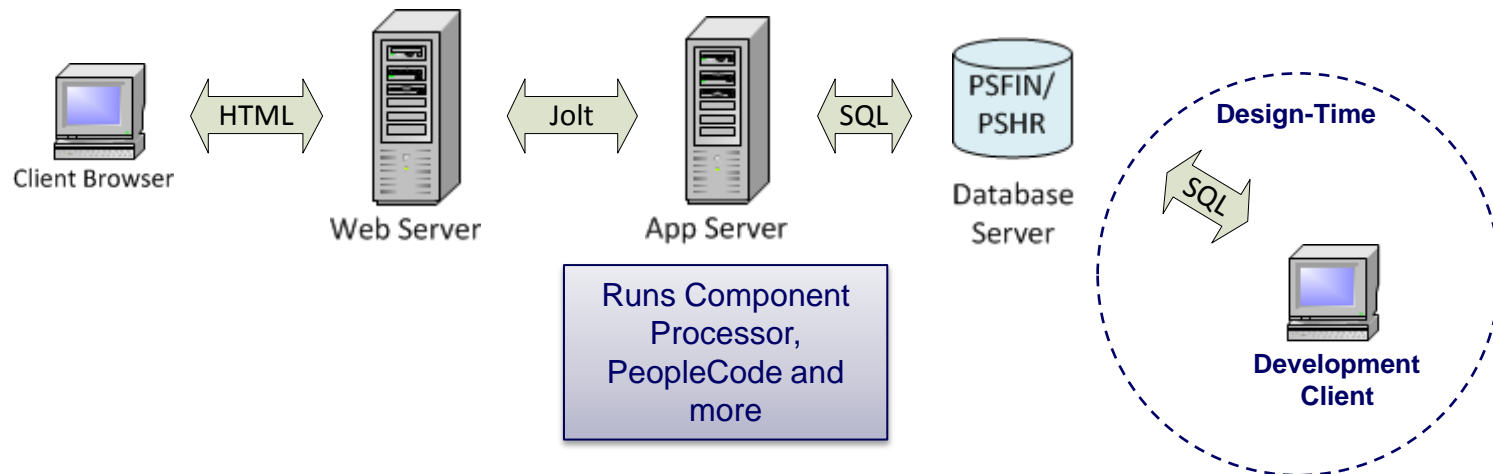
- Static text
- Edit boxes and prompt lookups
- Dropdowns
- Checkboxes and Radio Buttons
- Scroll Areas & Grids
 - Previous/Next
 - Export to Excel
- Tab Bar
- Buttons and Hyperlinks
- Toolbar
 - Save
 - Return to Search
- Portal links (Home, Sign Out)

Anatomy of a PeopleSoft Application - Demo

Which part of the application is written in PeopleCode?

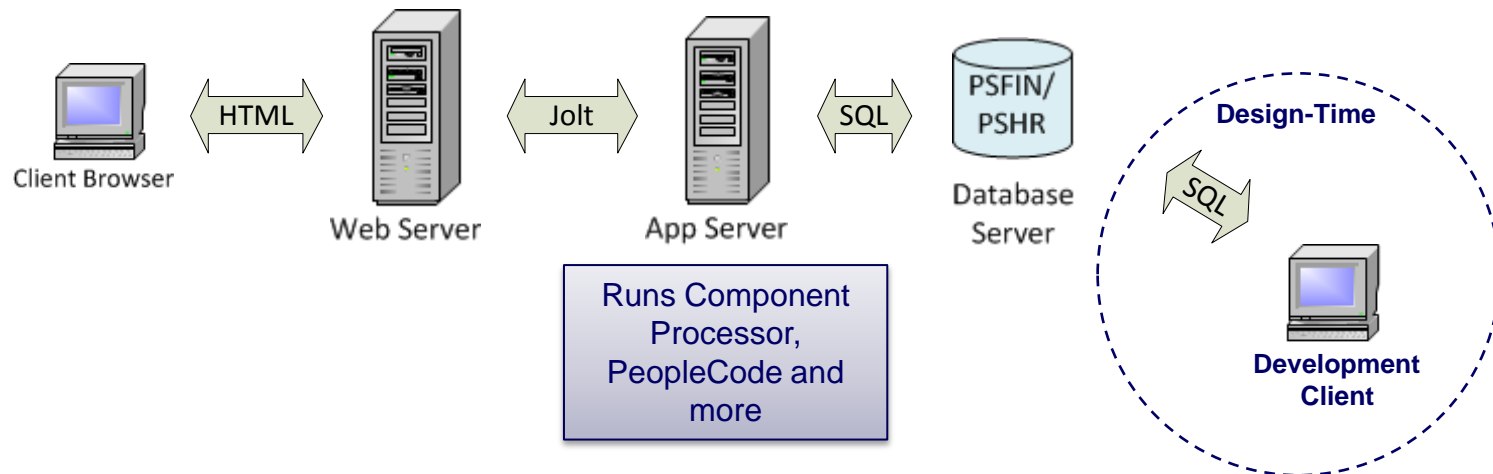
PeopleTools Technology Overview

- Browser
- Web Server
- Application (“App”) Server
- Relational Database Server
- Development client (design-time)



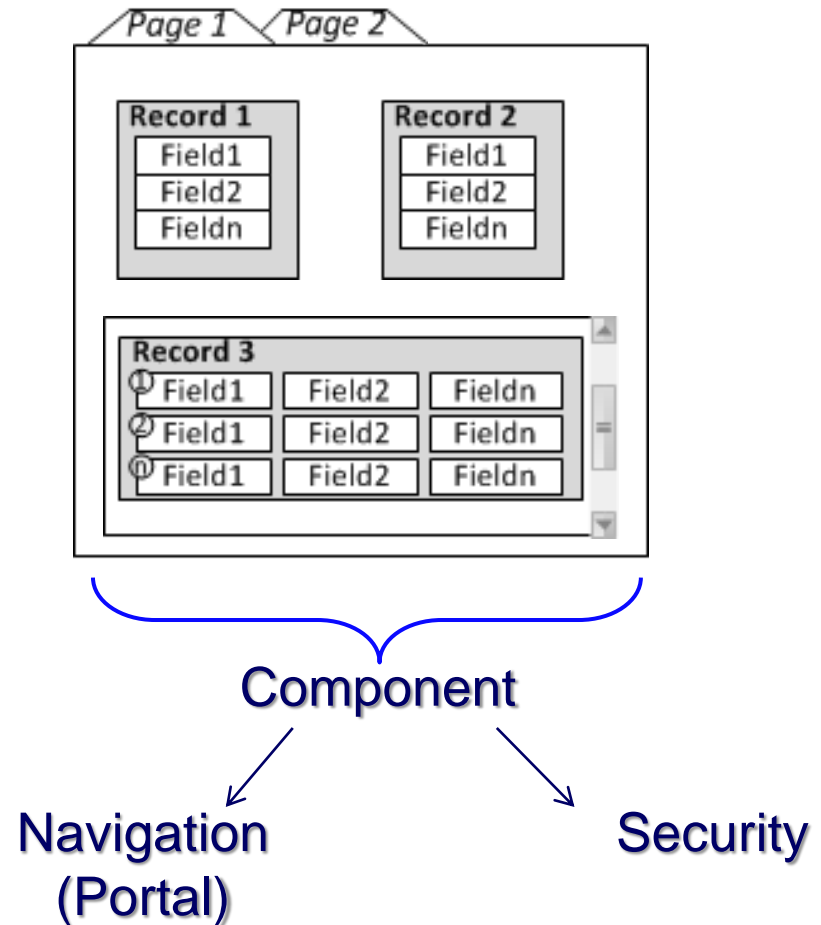
Where's the code?

- PeopleTools Applications are object based
- All object definitions stored in database, interpreted at runtime
- System Tables vs. Application Tables
- PeopleTools objects are created using Application Designer
- Delivered applications and custom applications use identical technology
- PeopleTools core technology
 - Developed in C++ and Java
 - Source code not accessible



Building Blocks of a PeopleSoft Application

- Fields
- Records
- Pages
- Components
- PeopleCode Programs
- Many, many more!



Records and Fields

➤ Field

- Describes a container that can hold one piece of data
- Properties include data type, length, labels

➤ Record

- Describes a collection of Fields used together
- Similar to beans, C STRUCTs, COBOL record layouts
- Looks like a database table definition
- The same Field can be reused on many different Record objects
- Records used to build tables and design the data structure of pages

➤ Records and Fields example (demo online)

Pages and Components

- Page = web page
- Consists of page controls for display of data and user interaction
- Components allow for multiple, tabbed pages instead of one huge page
- Component/Page example (demo online)



Introducing PeopleCode

Creating a Simple Application

Creating a Simple Application

Activity: Create an application for tracking training class and student information

➤ Housekeeping

- All custom objects will start with “Z”
- Choose a unique 2-letter identifier (represented by “XX” in examples)
- Your own objects will all have a “ZXX” prefix

➤ Create a Project

- ZXX_TRAINING
- Set useful project options
 - Automatically add to project
 - Open last project at startup



Creating a Simple Application

Create Data Definitions

➤ Create Record

- Record/table for Classes (ZXX_CLASS)
- All fields already exist
- Fields
 - Z_CLASS_ID (Key)
 - DESCR
 - DESCRLONG
 - DATE_FROM
 - DATE_TO
 - MIN_STUDENTS
 - MAX_STUDENTS
 - BUSINESS_UNIT (prompt from BUSUNIT_HR_VW)
 - LOCATION (prompt from LOCATION_TBL)
- Set flags as necessary (see search page mockups on handout)

Creating a Simple Application

Create User Interface

➤ Page

- Class (ZXX_CLASS)
- Model after mockup (see handout)

➤ Component (ZXX_CLASS)

- One page (ZXX_CLASS)
- Search record = ZXX_CLASS

Creating a Simple Application

Define Navigation and Security

- **Modify your user profile to include role Z_TRAINING**

- **Create Your Own Portal Folder (ZXX_TRAINING)**
 - PeopleTools > Portal > Structure and Content
 - Parent Folder: Z_TRAINING (“PeopleSoft Training”)

- **Register Component**
 - Menu Z_TRAINING
 - Permission List Z_TRAINING
 - Portal Folder ZXX_TRAINING
 - **Make sure one person at a time clicks Finish!**