

# A BASIC CRUD APPLICATION WITH ZEND AMF FLEX 4

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# A bit about me

PHP Developer

Java Developer

System Administrator

Wrote a book

Wrote another book

Won't write another book

Write music instead

Previous: NA Technical Consultant for Zend Technologies

Current: Technology εὐαγγέλιον for Zend

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- **There is LOTS I could talk about**
- **Will focus on**
  - Why interact with PHP?
  - Basic structure of a PHP request
  - What does a PHP/Flex integration point look like?
  - What does CRUD look like in PHP?

**Available in blog form at [www.eschrade.com](http://www.eschrade.com)**

<http://www.eschrade.com/page/flash-developers-building-your-remote-endpoint-4be9d475> to be precise

# PHP: Why would you use it?

- **RAD for 15 years (good RAD for 7-8)**
  - PHP has ALWAYS been about RAD
- **Loose typing for scalar types**
  - Good for browser interaction
- **Strong typing for objects**
  - Good for application structure
- **Millions of programmers worldwide**
- **Provides a mechanism for multi-content delivery**
- **Gobs of examples**
- **VERY short learning curve**
- **You might already be using it...**

# PHP: Why would you not use it

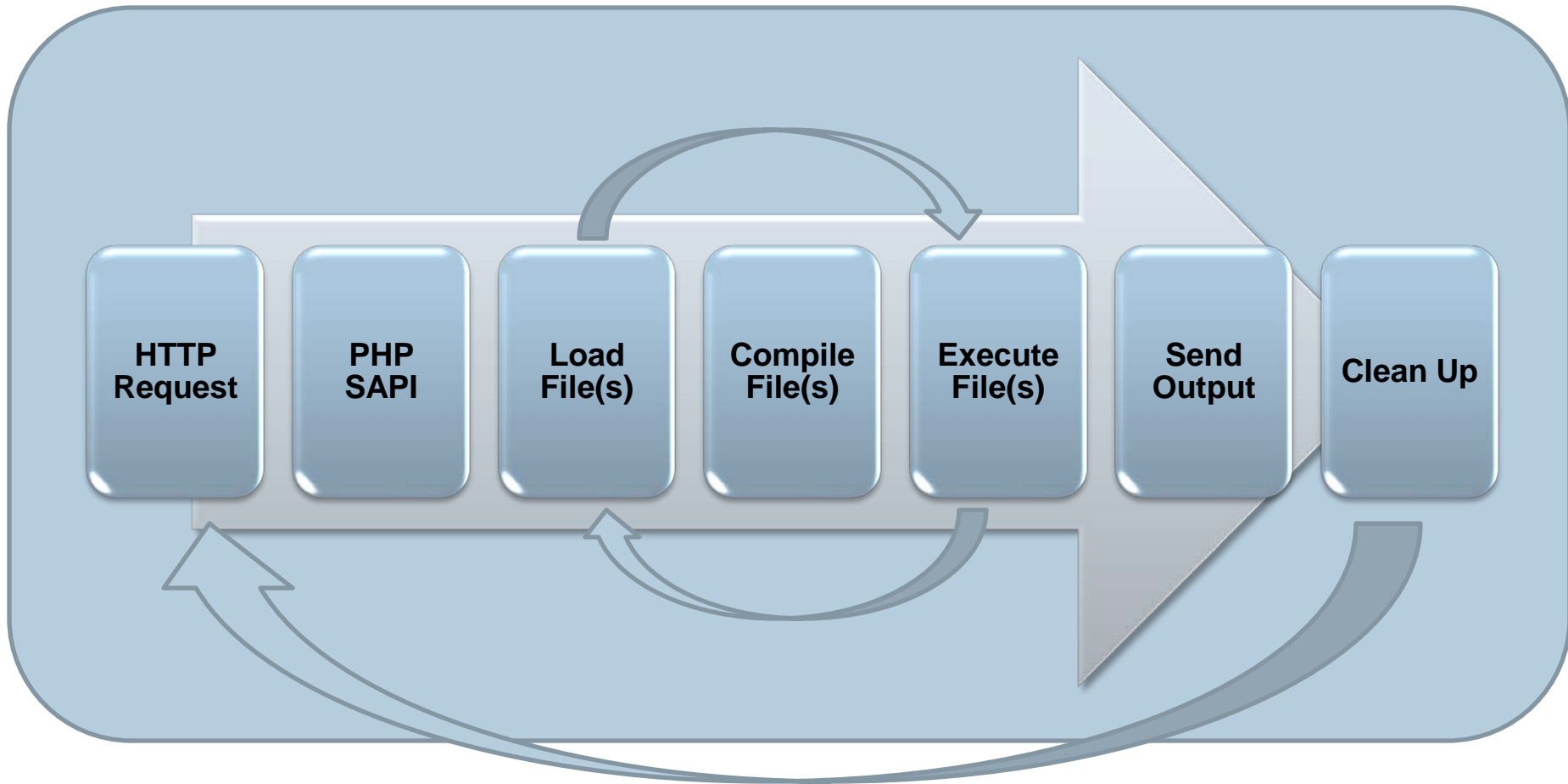
- **You NEED threading in an HTTP environment**
  - (You probably don't)
- **You NEED all variables to be statically typed**
  - (You probably don't)
- **You NEED to compile source code**
  - Performance
  - “Security”
  - IP Protection (Zend Guard can help)

# Why I love it

- **It works out of the box**
- **It's a natural fit for HTTP**
- **It's a natural fit for HTML**
- **I can decide on the complexity of the application**
- **I can decide the implementation**
- **Performance/scalability issues will be my fault**
  - (that also means that I can fix them)
- **Organic growth. “Need” determines features**
- **Open development.**
  - You can easily contribute or just “listen in”

# PHP: Architectural Considerations

## *A single Apache process*



# Architectural Considerations

## **Key thought concerning your PHP backend**

“Just because you can doesn't mean you should”

**Think about re-use**

**Test outside of Flash**

**Consider abstraction to make your life easier**

# Interacting with Flex



# The PHP Side of our demo

- **Uses Zend Framework**
  - Uses Zend\_Db for database access
  - Uses Zend\_Application for configuration/bootstrapping
- **Integration point is gateway.php**
  - Defined by Flash Builder
  - One line of code added for the bootstrap
  - Integration classes are defined in the /services directory
- **CensusService class is tested using PHPUnit**

# Demo Application Layers

*Flash/Flex*

*PHP*

Service Handler



Service Classes



Model Classes



Database

**Diving a little deeper...**

# Where to go from here

Zend Studio - <http://www.zend.com/en/products/studio/>

Zend Framework – <http://framework.zend.com/>

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