# Web Services: SOAP and Unit Testing in PHP

Mike Soule,
Zach Mears and
Freddy Duarte

# Overview

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- SOAP: Simple Object Access Protocol - Exposing object methods over the web

# The Object to Share

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- Class: Bar

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- Methods:
  - getMenu()
  - getDrink($age)

# Making the object available:

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- Sucks but w3schools.com/WSDL/default.asp can help

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- Data Types: schema
- Messages: input and output messages
- Port: available methods
- Binding: ties the messages and port together
- Service Definition: the location and name of the service

# Offering up the service

```php
require_once 'Bar.php';

$server = new SoapServer('bar.wsdl.xml');

$server->setObject(new Bar());

$server->handle();
```

# Using the Service

```php
$soapClient = new SoapClient('http://barsoap.dev/bar.wsdl.xml');

$menu = $soapClient->GetMenu();
foreach ($menu->Drinks as $drink) {
    echo "<p>$drink</p>";
}

echo "<h3>" . $soapClient->GetDrink(31) . "</h3>";
```

# SOAP Headers

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- Good for authentication

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- Calls a method in the exposed object

# Controller-level Testing

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- It's about the journey more than the destination

# Resources

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- php.net/soap

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- w3schools.com/WSDL/default.asp

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- php.net/soap
- w3schools.com/WSDL/default.asp
- github.com/mikesoule/BarSOAP

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# Thanks!

- Zach Mears
- Freddy Duarte