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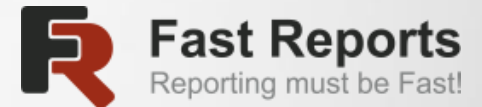
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# Tackling Complexities and Mediating Hexagonal Challenges

**Włodzis Iljuczonok**



# Wałdis Ijuczonok

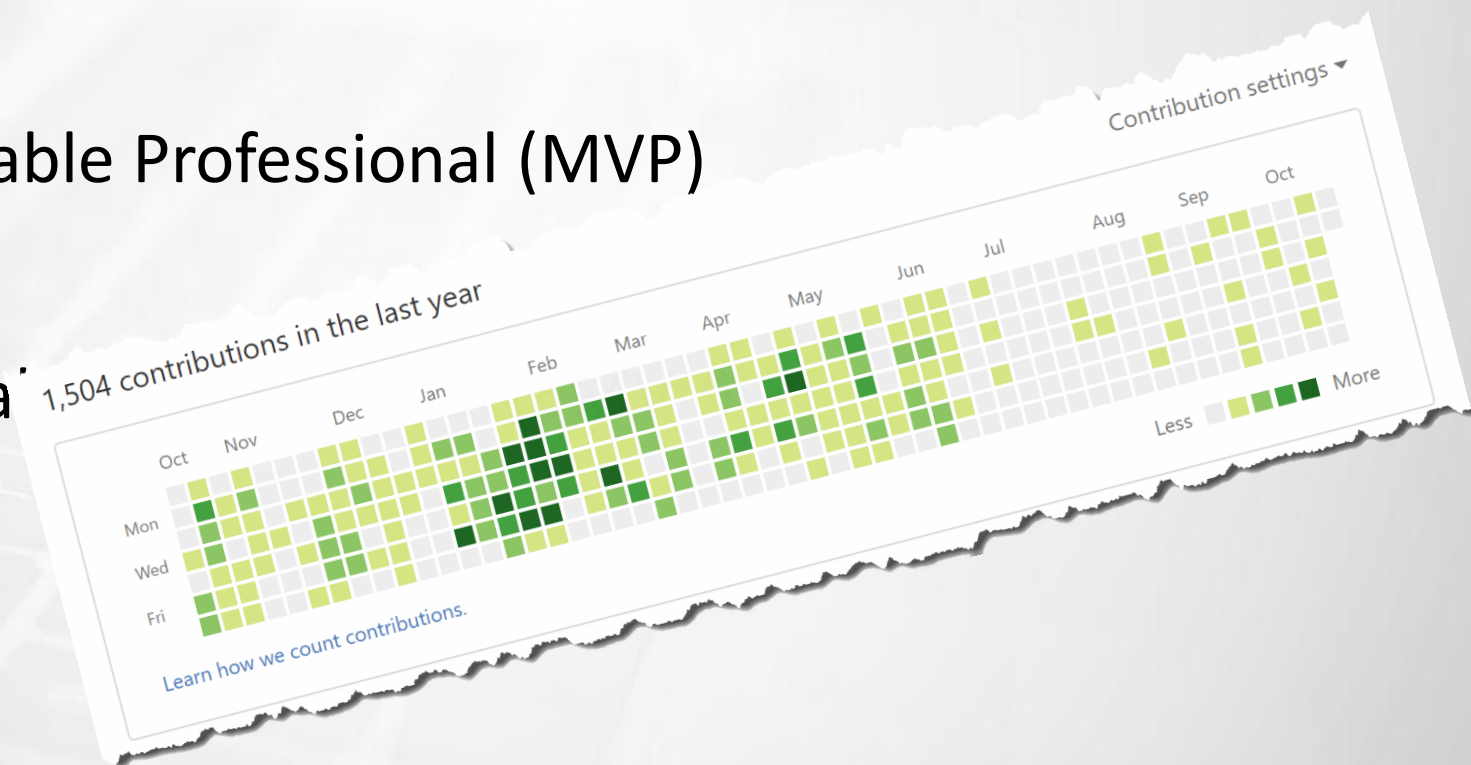
## Software Architect (@tech\_fellow)



Microsoft Most Valuable Professional (MVP)



EpiServer Most Valuable Professional



# Tackling Complexities and Mediating Hexagonal Challenges

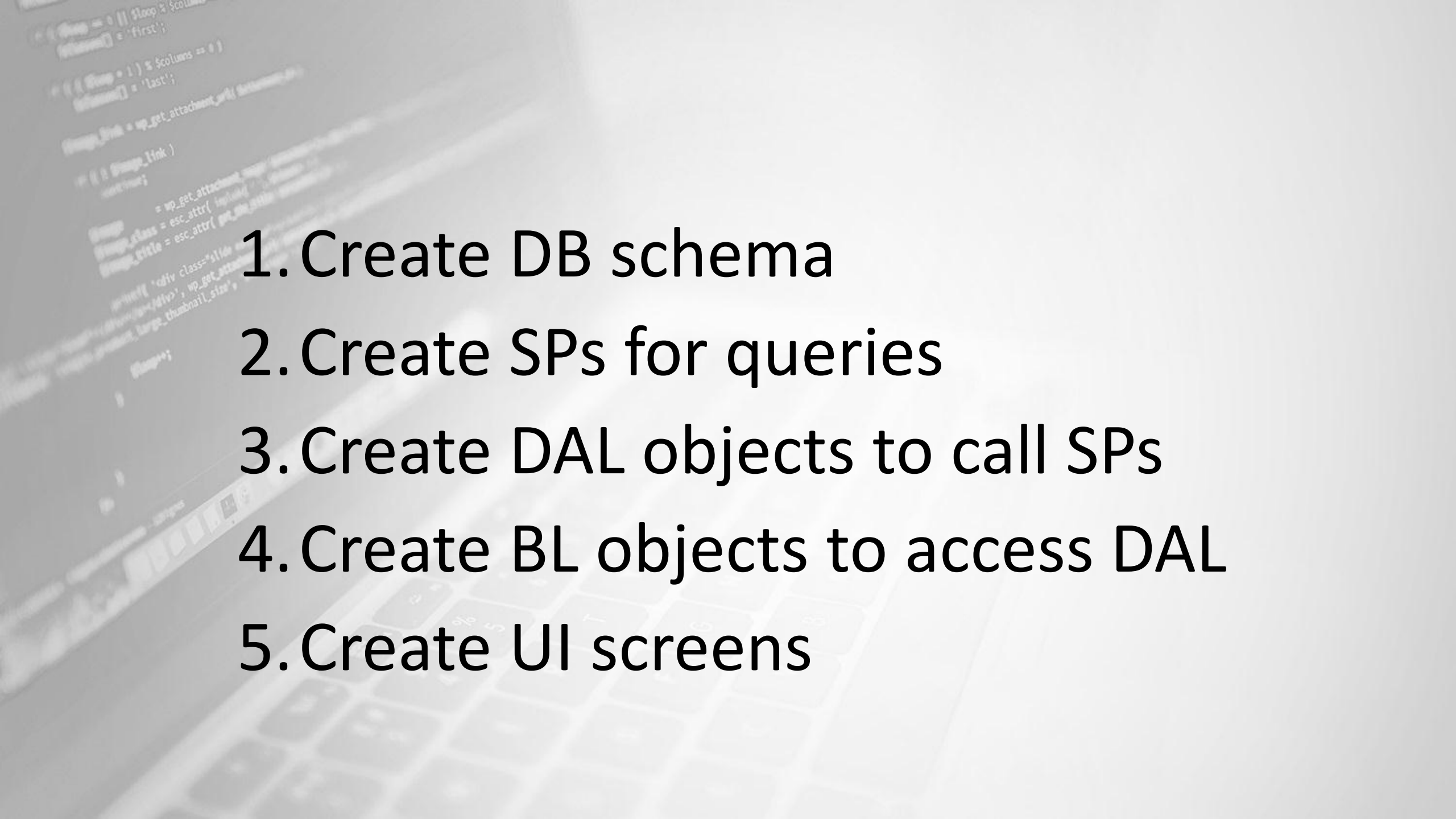
\_\_\_\_\_

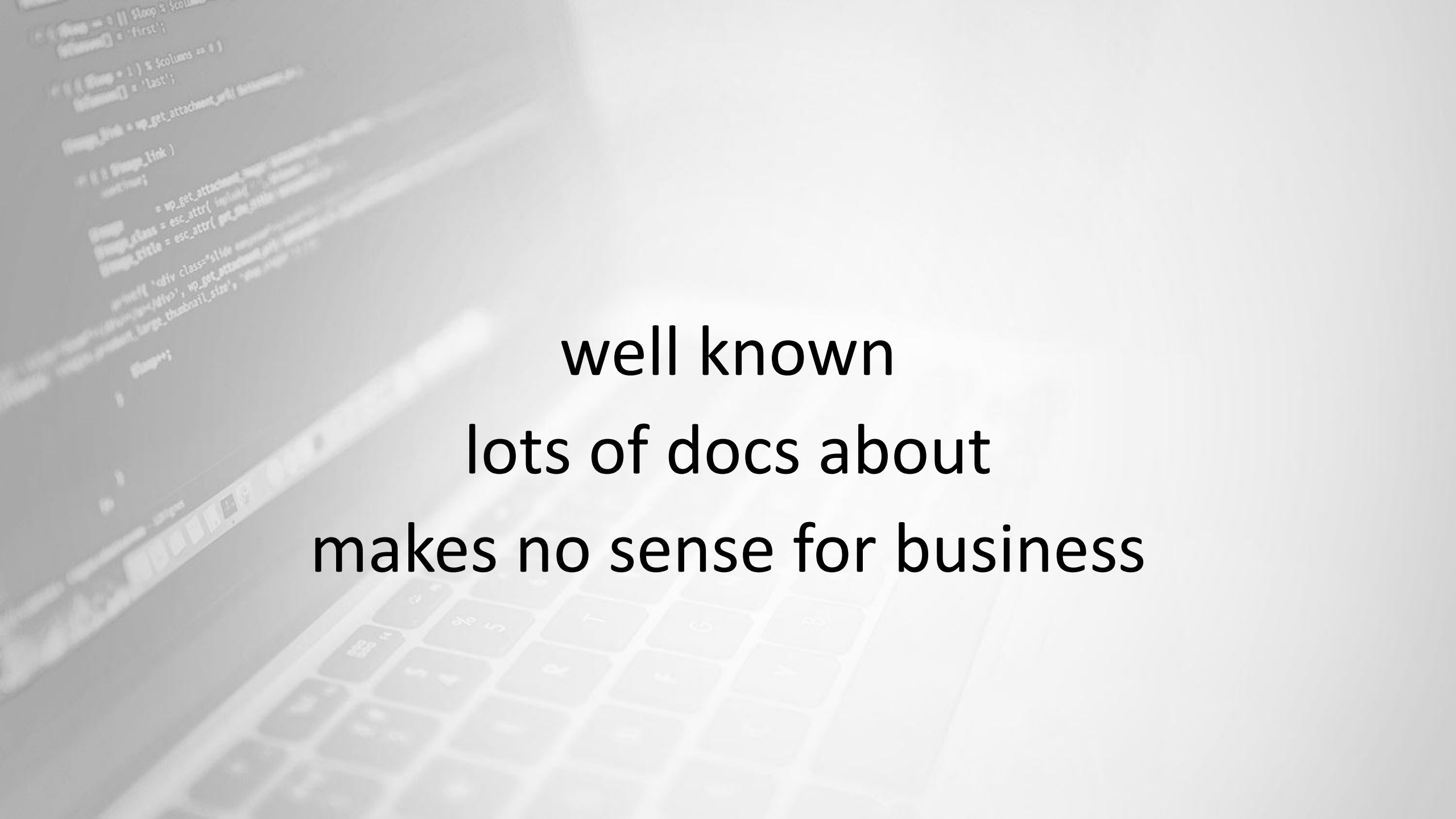
\_\_\_\_\_

\_\_\_\_\_

```
for ($loop = 0 || $loop = $columns; $loop < $columns; $loop++)
{
    $columns = 'first';
    $columns = 'last';
    $image_link = wp_get_attachment_url($attachment_id);
    if ($image_link)
    {
        $image = wp_get_attachment_image($attachment_id, $size);
        $image_class = esc_attr(implode(' ', $classes));
        $image_title = esc_attr(wp_get_attachment_title($attachment_id));
        $image_html = sprintf('<div class="%s"></div>', $image_class, $image_title, $image_link);
        $output .= $image_html;
    }
    $loop++;
}
```

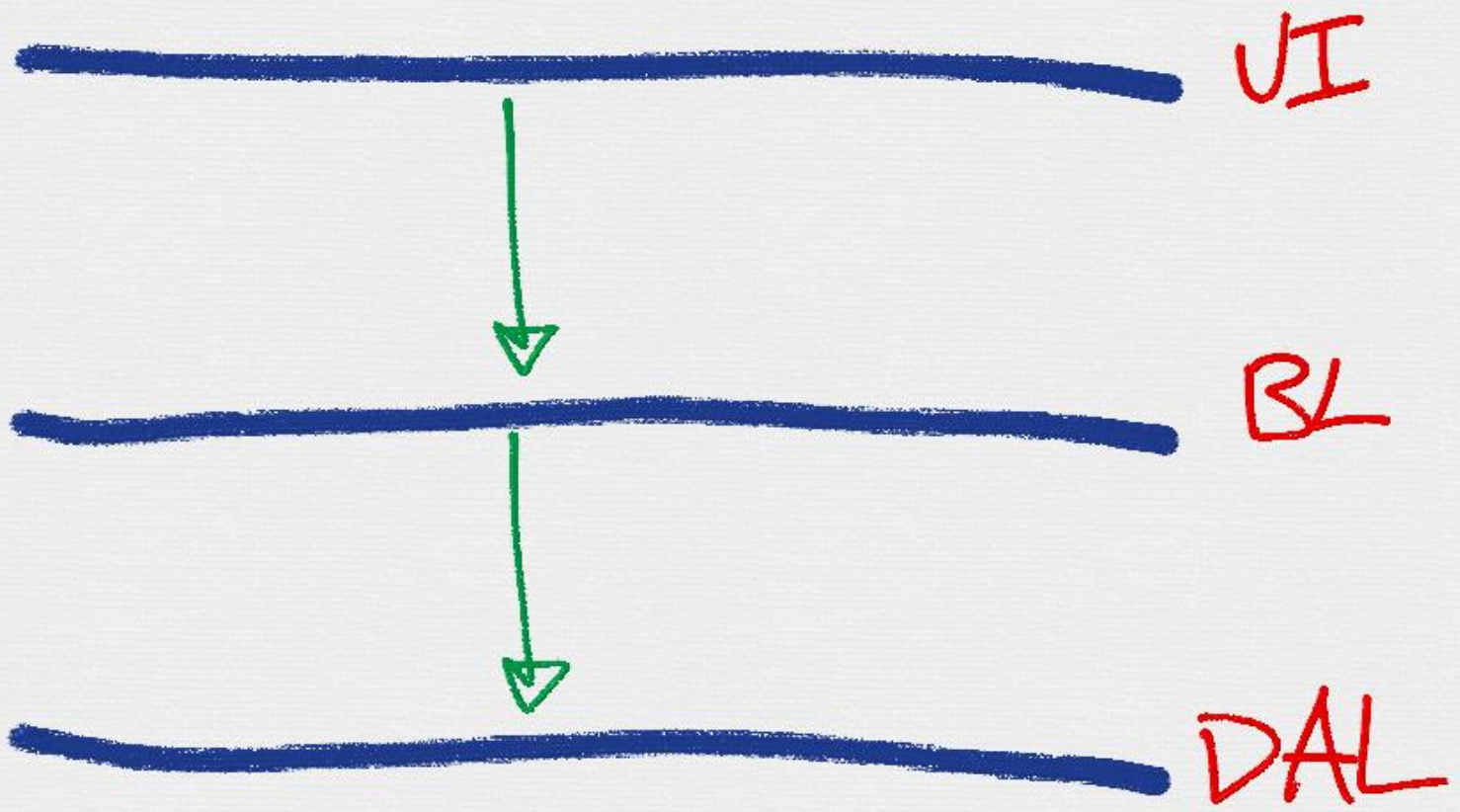
horizontal

- 
- ```
if ($loop == 0 || $loop == $columns)
    $columns = 'first';
if (($loop == 1) & $columns == 0)
    $columns = 'last';
$image_link = wp_get_attachment_url($attachment_id);
if ($image_link)
    $image = wp_get_attachment_image($attachment_id, $size);
$image_class = esc_attr(implode(' ', $classes));
$image_title = esc_attr( get_the_title($attachment_id));
echo '<div class="' . $image_class . '">';
echo '<div class="' . $image_class . '">';
wp_get_attachment_image($attachment_id, $size);
echo '</div>';
echo '</div>';
$loop++;
```
1. Create DB schema
  2. Create SPs for queries
  3. Create DAL objects to call SPs
  4. Create BL objects to access DAL
  5. Create UI screens



well known  
lots of docs about  
makes no sense for business



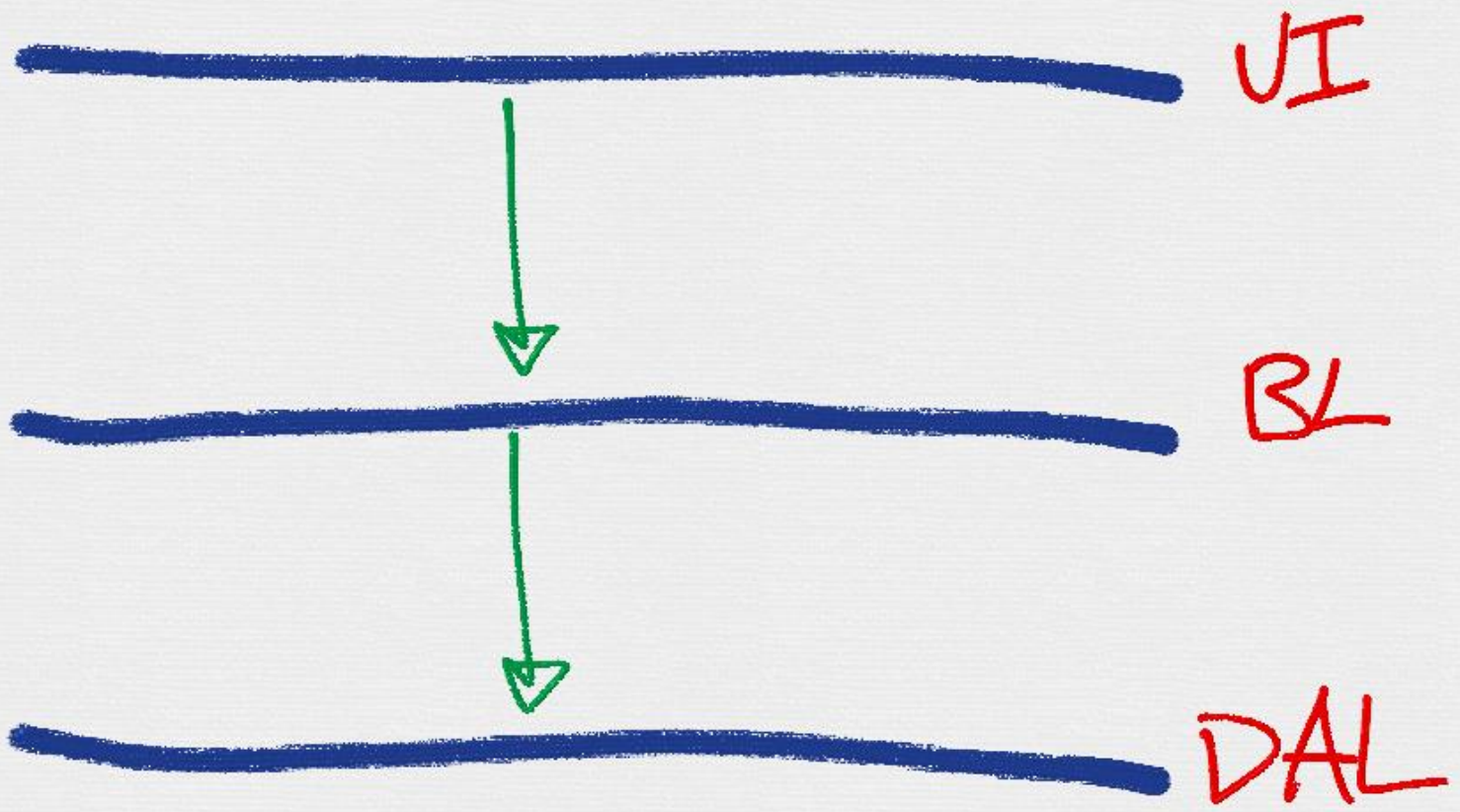


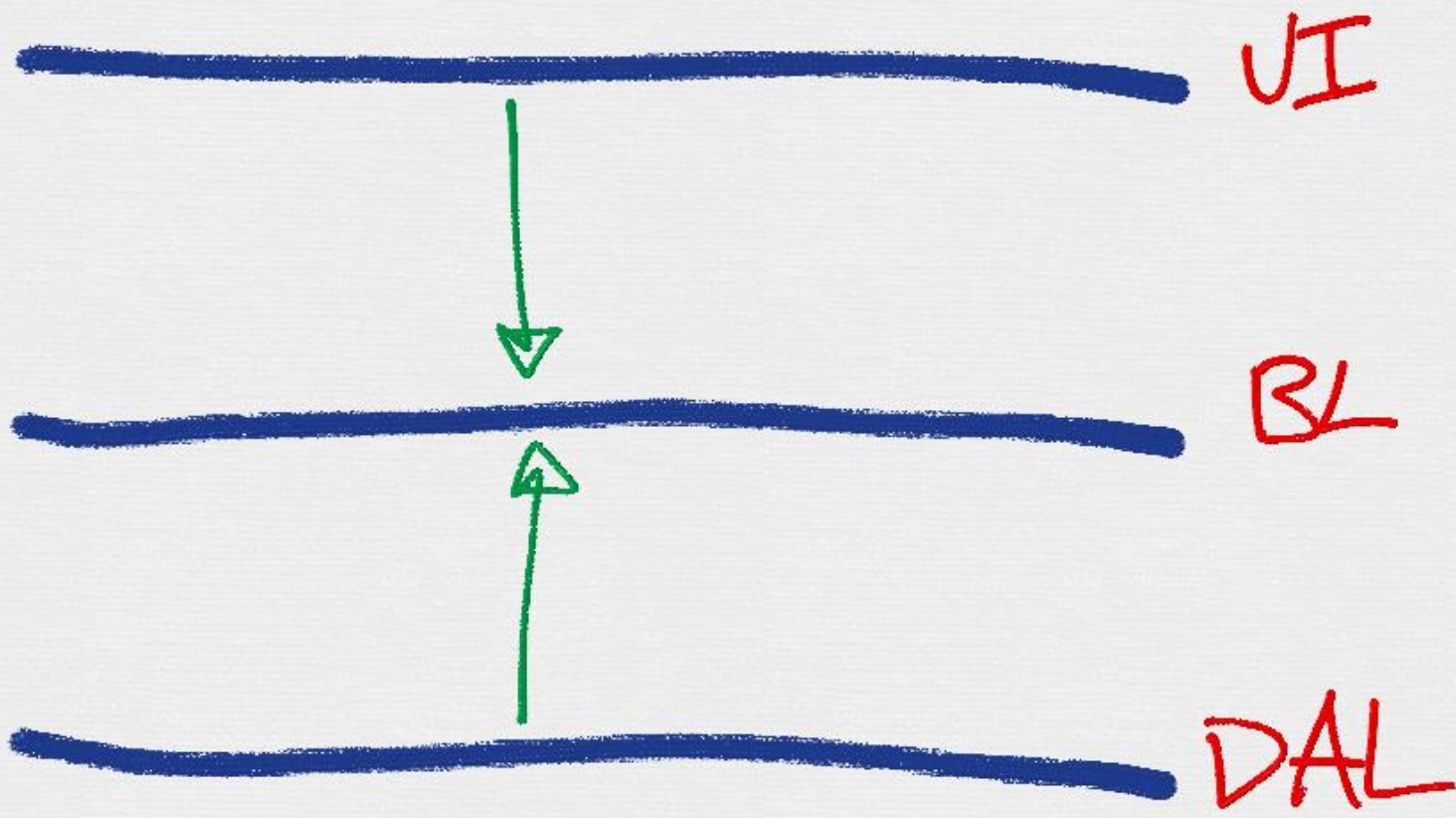
The background of the image is a blurred photograph of a laptop. The screen on the left shows lines of code, likely PHP, with some text like 'first', 'last', and 'wp\_get\_attachment\_url'. The keyboard is visible in the lower half of the image, with keys like 'T', 'G', '8', 'R', 'F', 'V', '4', and '5' being discernible. The overall image has a soft, out-of-focus aesthetic.

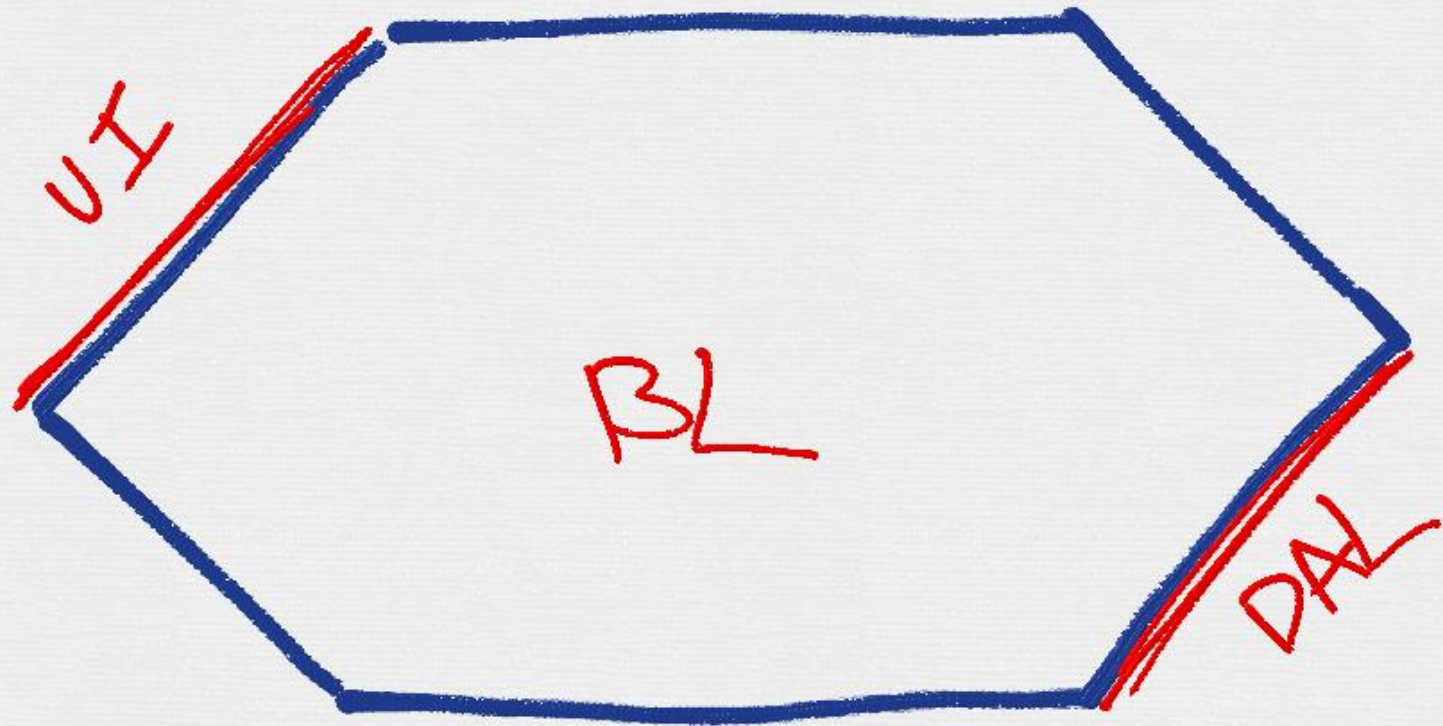
**S.O.L.I.D.**

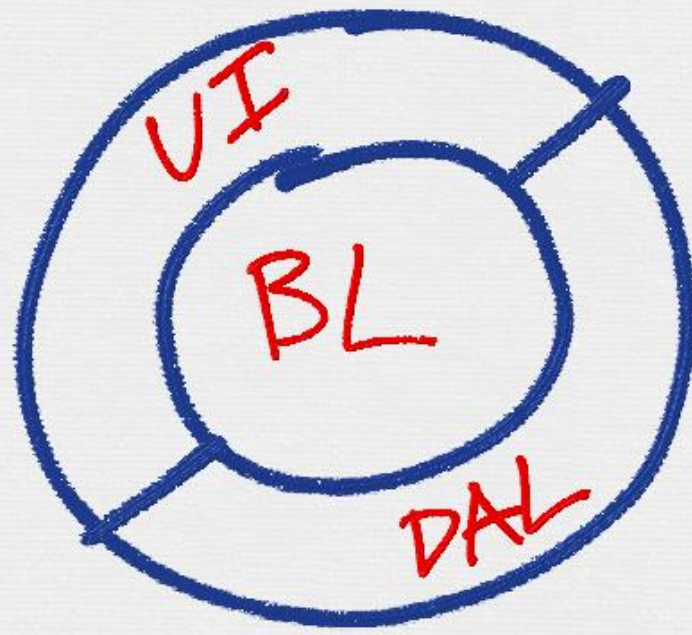
The background is a blurred image of a laptop. The screen on the left shows some code, possibly PHP, with lines like `if ($loop == 0 || $loop == $columns)`, `$filename = 'first';`, `if ($loop == 1) % $columns == 0`, `$filename = 'last';`, `$image_link = wp_get_attachment_url($attachment_id);`, `if ($image_link)`, `$image = wp_get_attachment_image($attachment_id, $size);`, `$image_class = esc_attr(implode(' ', $classes));`, `$image_title = esc_attr(get_the_title($attachment_id));`, `printf('<div class=\"%s\"><img alt=\"%s\" src=\"%s\" /></div>', wp_get_attachment_url($attachment_id), $image_title, $image_link);`, and `$loop++;`. The keyboard is visible in the foreground, and the overall scene is out of focus.

# Dependency Inversion Principle









WebApplication1 - Microsoft Visual Studio (Administrator)

Server Explorer Cloud Explorer

Quick Launch (Ctrl+Q)

Solution Explorer

Search Solution Explorer (Ctrl+;)

- Solution 'WebApplication1' (1 project)
  - Solution Items
    - src
      - WebApplication1**
        - Properties
        - References
        - wwwroot
          - css
          - images
          - js
          - lib
          - \_references.js
          - favicon.ico
        - Dependencies
        - Controllers
        - Infrastructure
          - DependencyInjection
          - Filters
          - Logging
          - Startup
        - Models
        - Views
        - appsettings.json
        - bundleconfig.json
        - Program.cs
        - project.json
        - Project\_Readme.html
        - Startup.cs
        - web.config

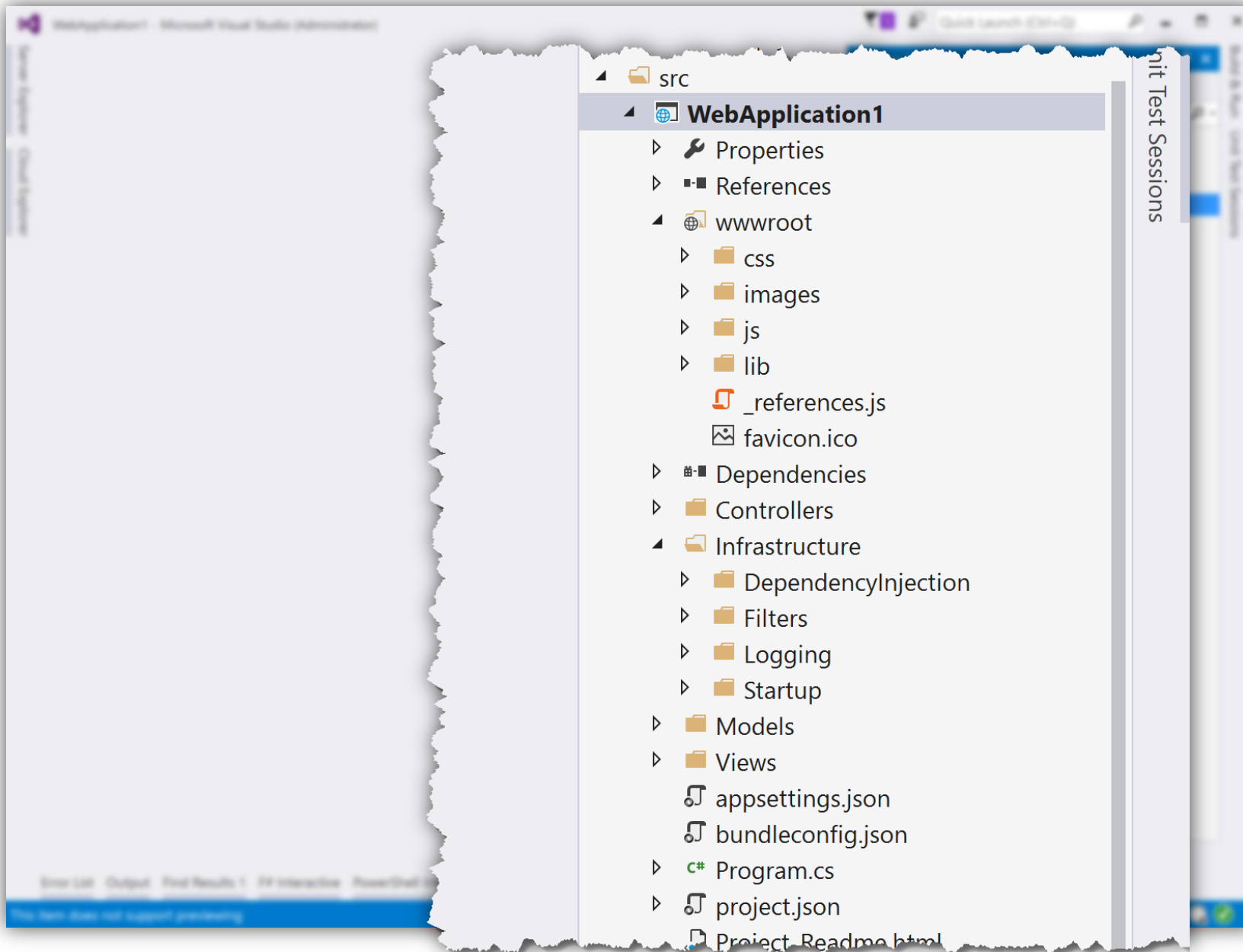
Build & Run Unit Test Sessions

Solution Explorer Team Explorer Unit Test Explorer

Error List Output Find Results 1 F# Interactive PowerShell Interactive Window Package Manager Console Web Publish Activity Find Results Task Runner Explorer C# Interactive

This item does not support previewing Publish 213 MB





```
for ($loop = 0 || $loop < $columns; $loop++)
    $columns = 'first';

for ($loop = 1 || $loop < $columns; $loop++)
    $columns = 'last';

$image_link = wp_get_attachment_url($attachment_id);

if ($image_link)
    $image = wp_get_attachment_image($attachment_id, $size);
    $image_class = esc_attr($image_class);
    $image_title = esc_attr($image_title);

    printf('<div class="%s"></div>', $image_class, $image_title, $image_link);

    $loop++;
}
```

vertical

|

|


|

|

UI


BL

DAL

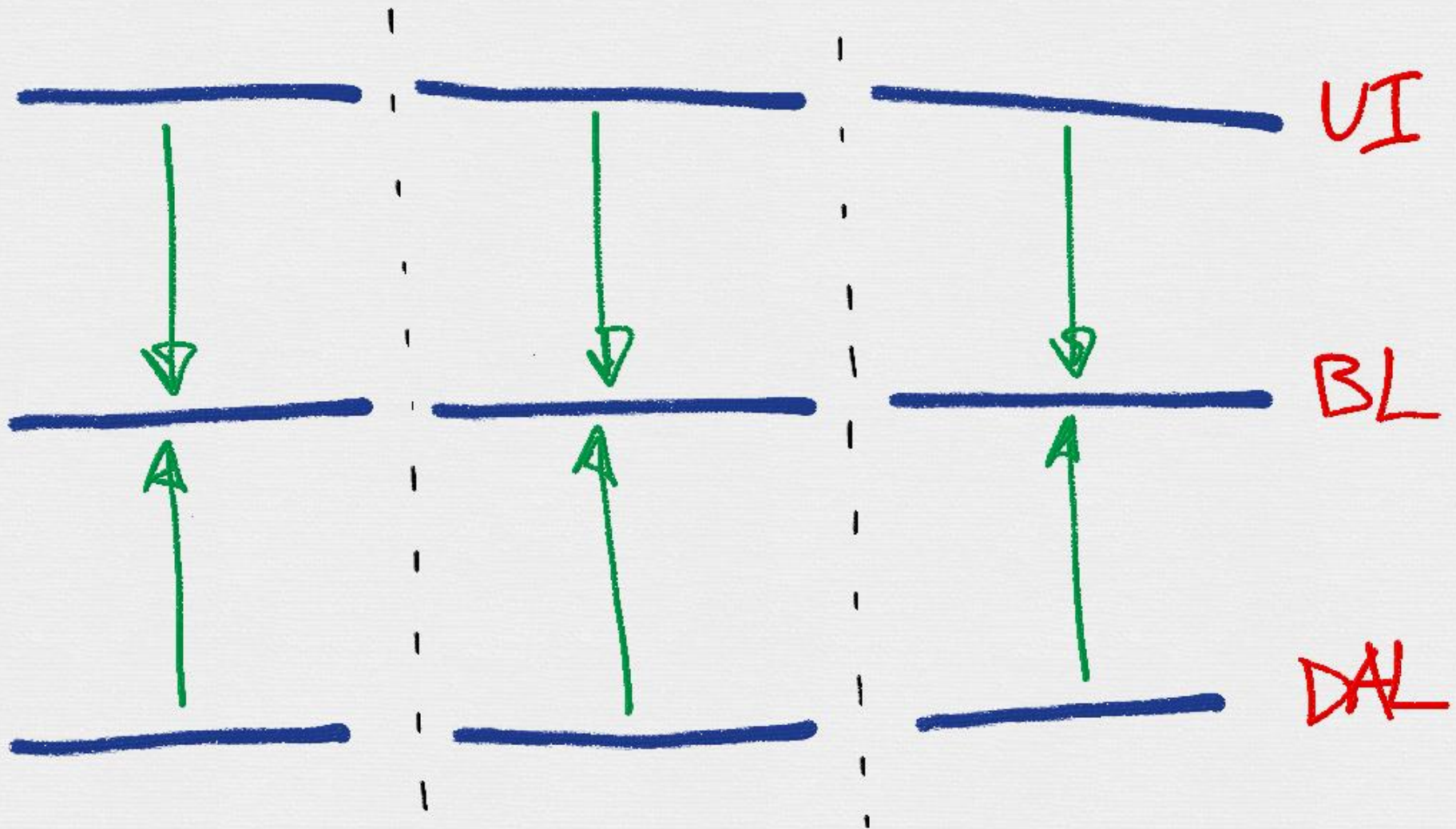
- 
- ```
for ( $loop = 0 ; $loop < $columns ; $loop++ )  
{  
    $columns = 'first';  
    if ( ( $loop = 1 ) % $columns == 0 )  
        $columns = 'last';  
    $image_link = wp_get_attachment_url( $attachments[ $loop ] );  
    if ( ! $image_link )  
        continue;  
    $image = wp_get_attachment_image( $attachments[ $loop ], $size );  
    $image_class = esc_attr( 'image' );  
    $image_title = esc_attr( $attachments[ $loop ] );  
    printf( '

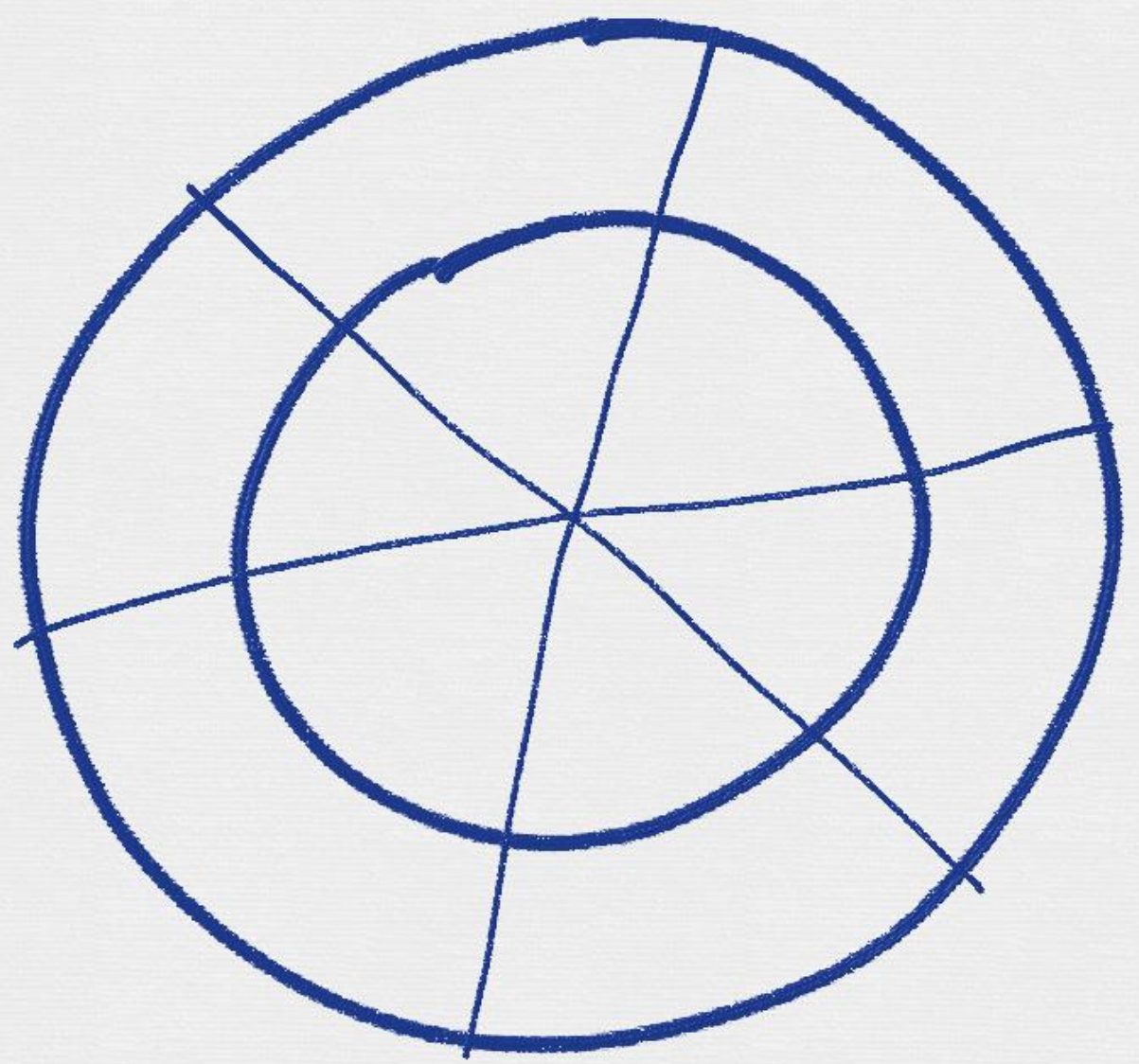
', $image_class );  
    printf( 'img alt="%s" data-bbox="%s" style="width: 100%; height: 100%;"/>', $image_title, $image );  
    printf( '

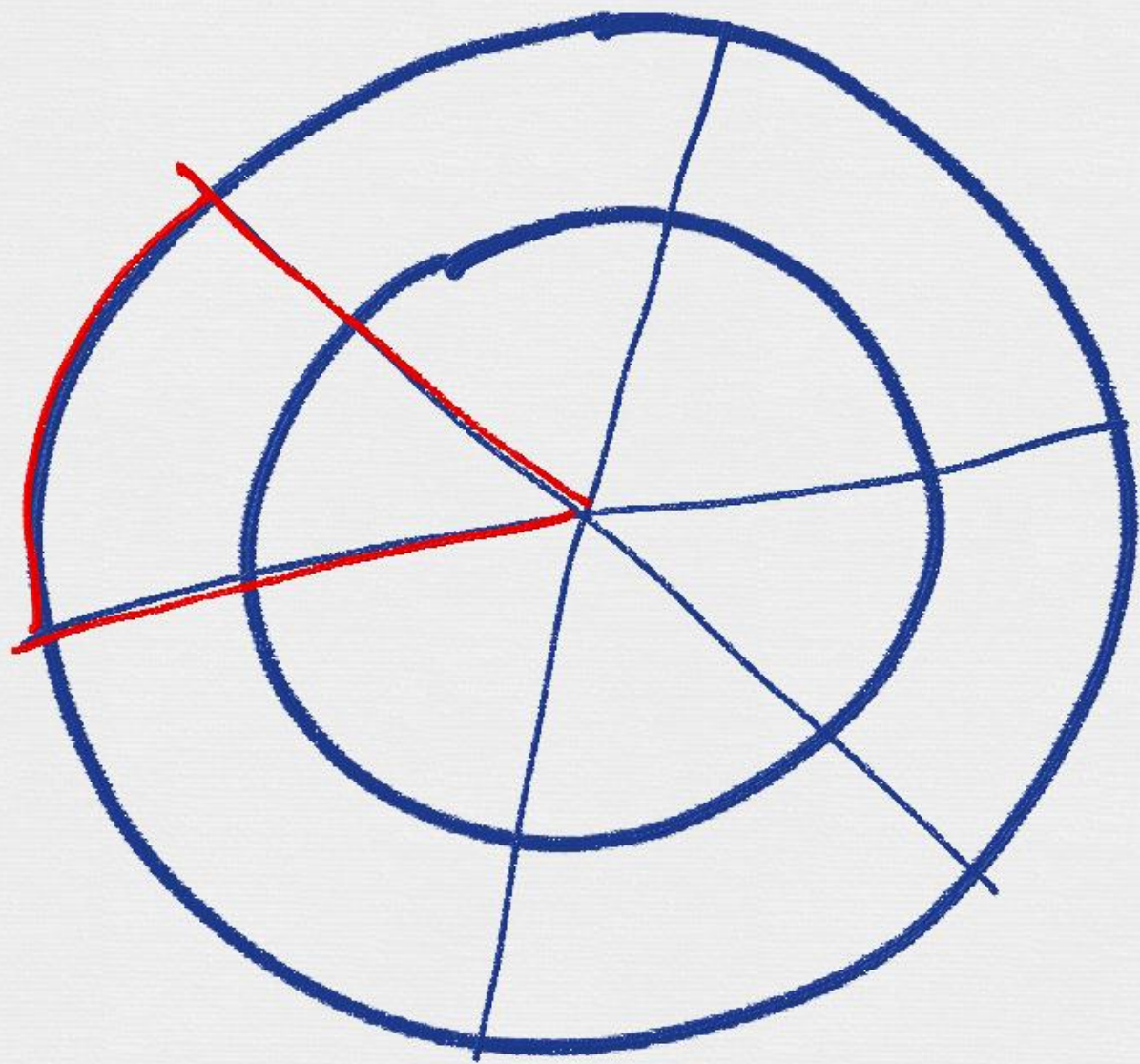
 ');  
    $loop++;  
}
```
1. User can create profile
  2. User can edit profile
  3. User can see list of users
  - 4....



new to developers  
less docs about it  
business requirement slices







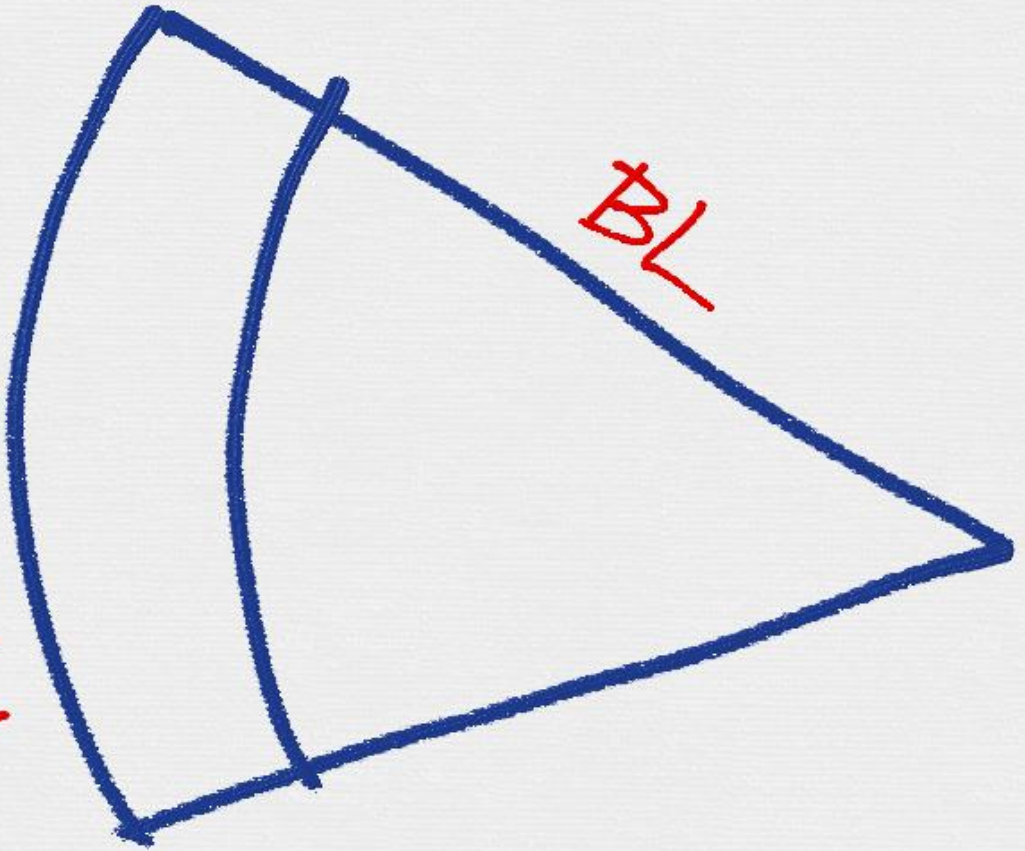


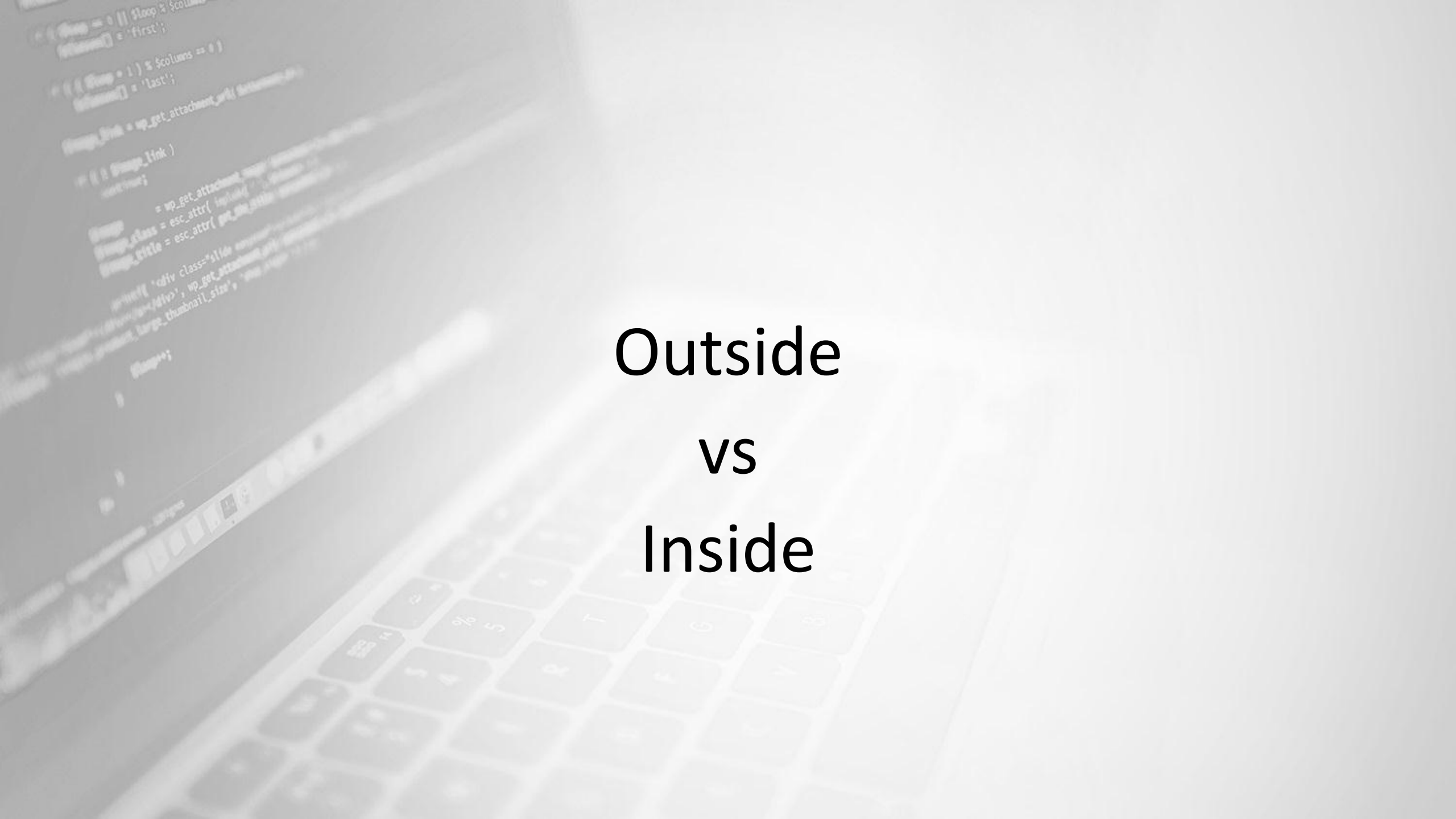
REQUEST



UI

BL



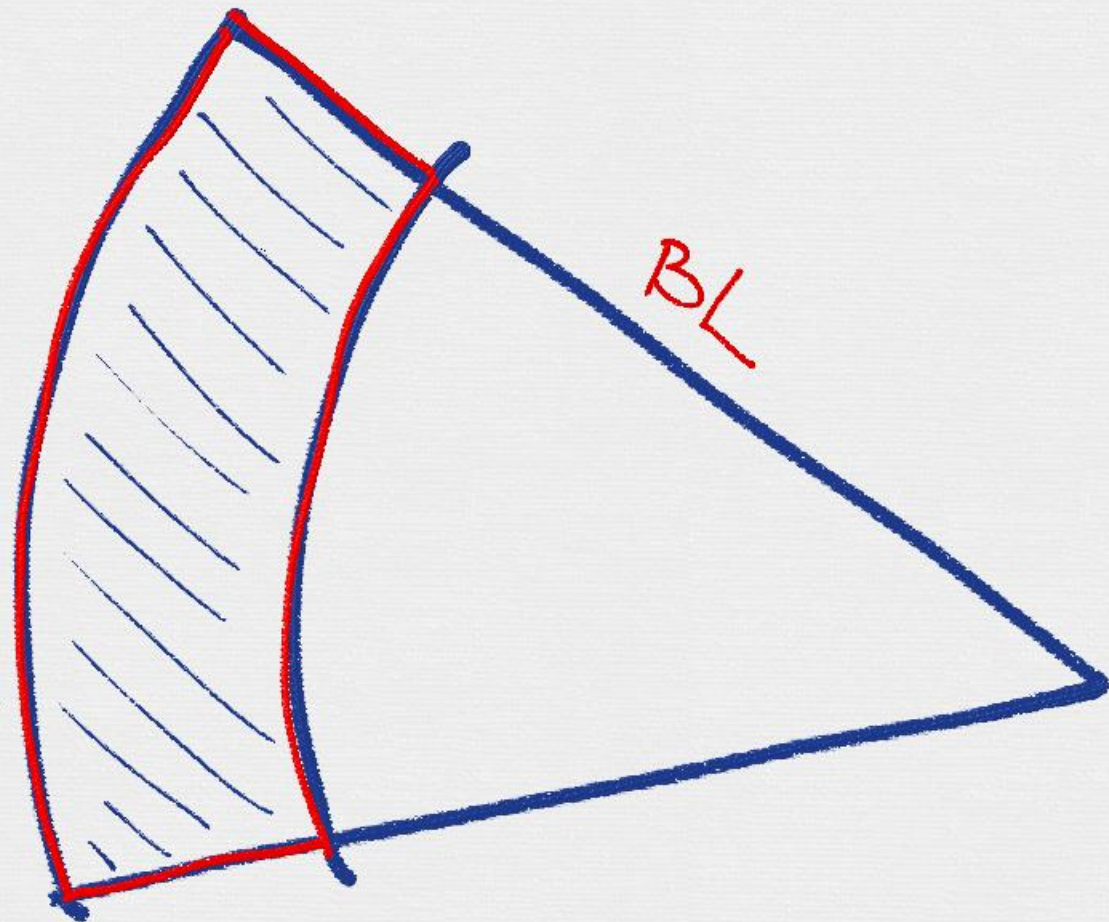


Outside  
vs  
Inside

REQUEST



VI



BL



Challenge

A blurred background of a laptop screen showing PHP code and a keyboard. The code includes a loop for columns, a loop for rows, and functions like wp\_get\_attachment\_url and esc\_attr. The keyboard is visible at the bottom of the frame.

god controller

=>

few-liner

# Tackling Complexities and Mediating Hexagonal Challenges

The background of the image is a blurred photograph of a laptop. The keyboard is visible in the lower half, and the screen in the upper left shows lines of code, likely PHP, with some text like 'wp\_get\_attachment\_url' and 'wp\_get\_attachment\_image'.

# What is mediator?

“

defines an object that encapsulates  
how a set of objects interact



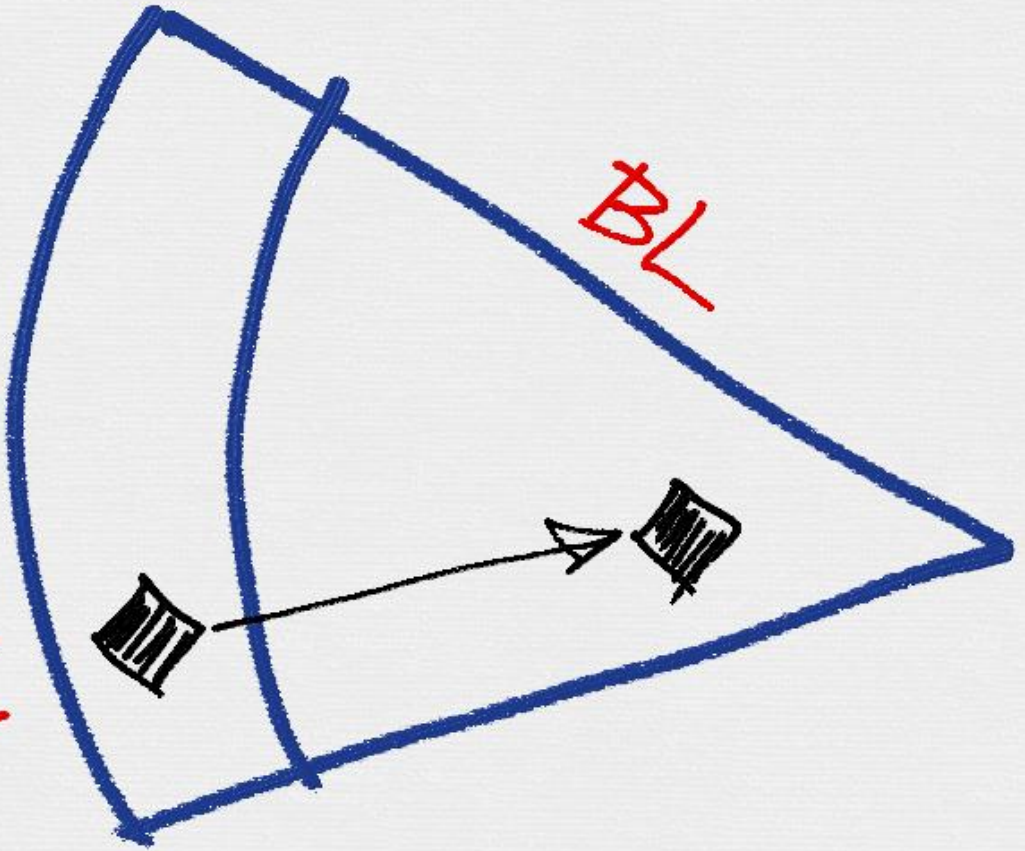
The background is a blurred image of a laptop. The screen on the left shows PHP code with comments and function calls like `wp_get_attachment_url()` and `esc_attr()`. The keyboard is visible in the lower half of the image, with keys like 'T', 'G', '8', 'R', 'F', 'V', '4', '5', and '6' being discernible. The overall image is out of focus, serving as a backdrop for the text.

Let's implement one...

REQUEST

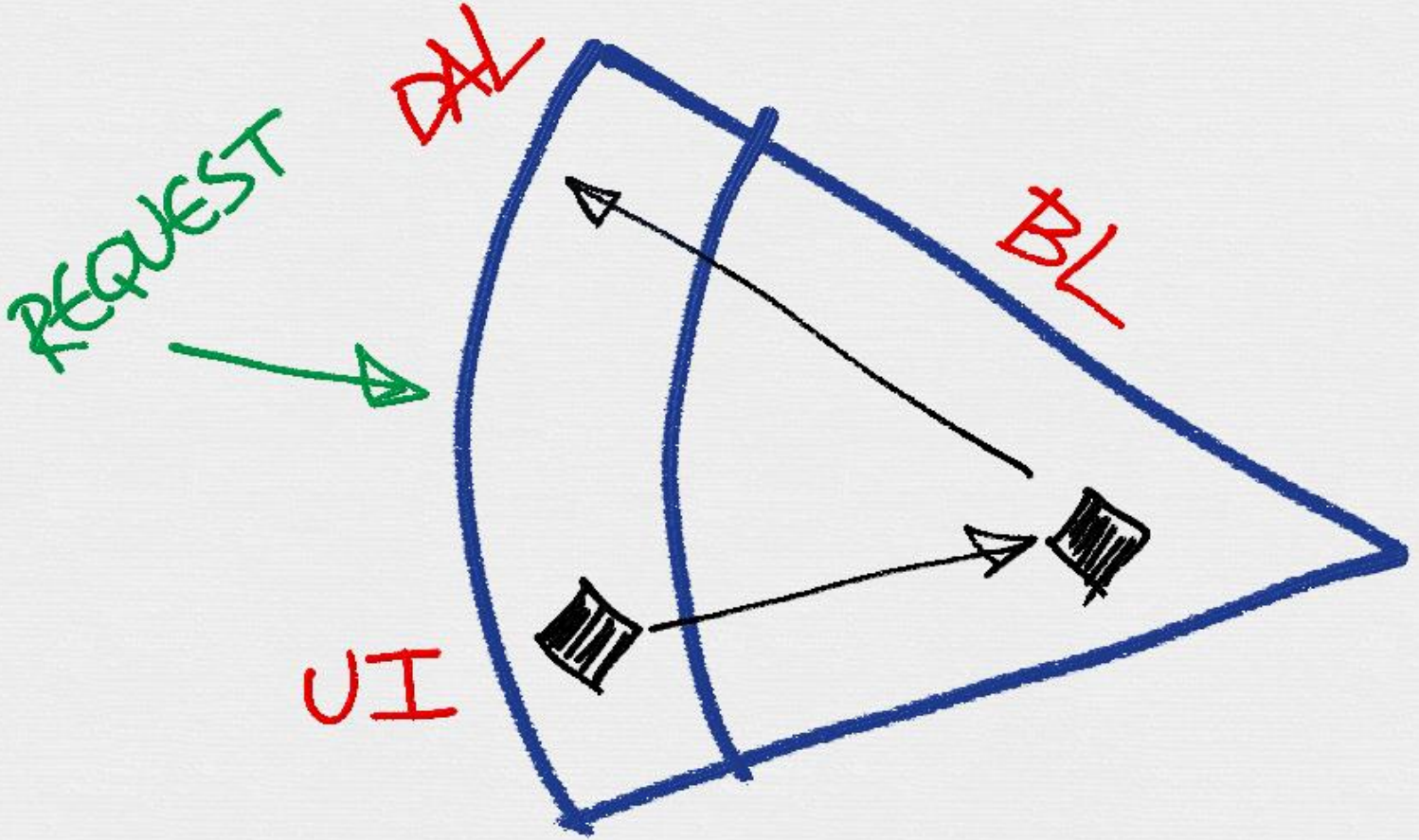


UI



BL



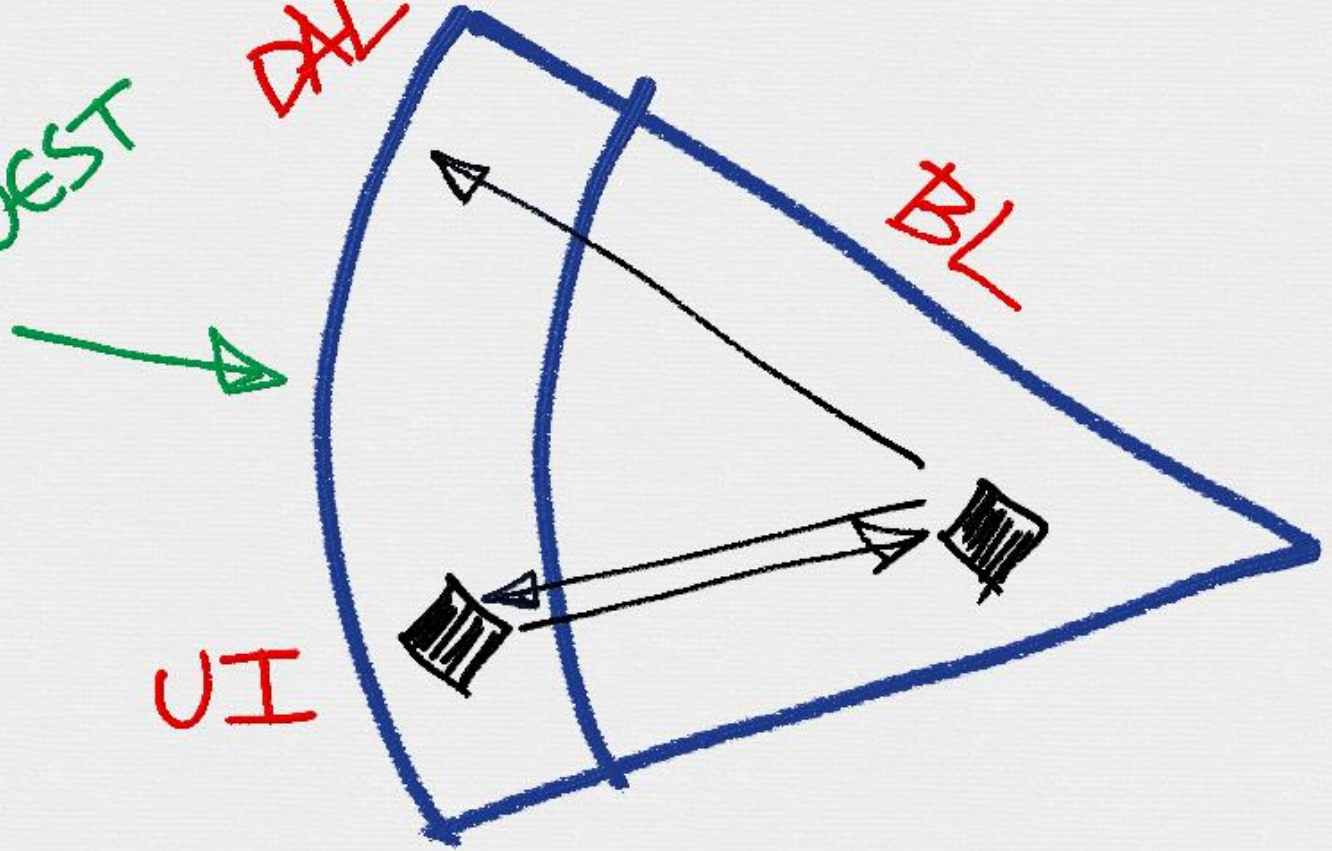


REQUEST

DL

BL

UI



The background is a blurred image of a laptop. The screen on the left shows lines of code, likely PHP, with some text like 'wp\_get\_attachment\_url' and 'wp\_get\_attachment\_image'. The keyboard is visible in the lower half of the image, with keys like 'T', 'G', '8', 'R', 'F', 'V', '5', and '4' being discernible. The overall image has a soft, out-of-focus aesthetic.

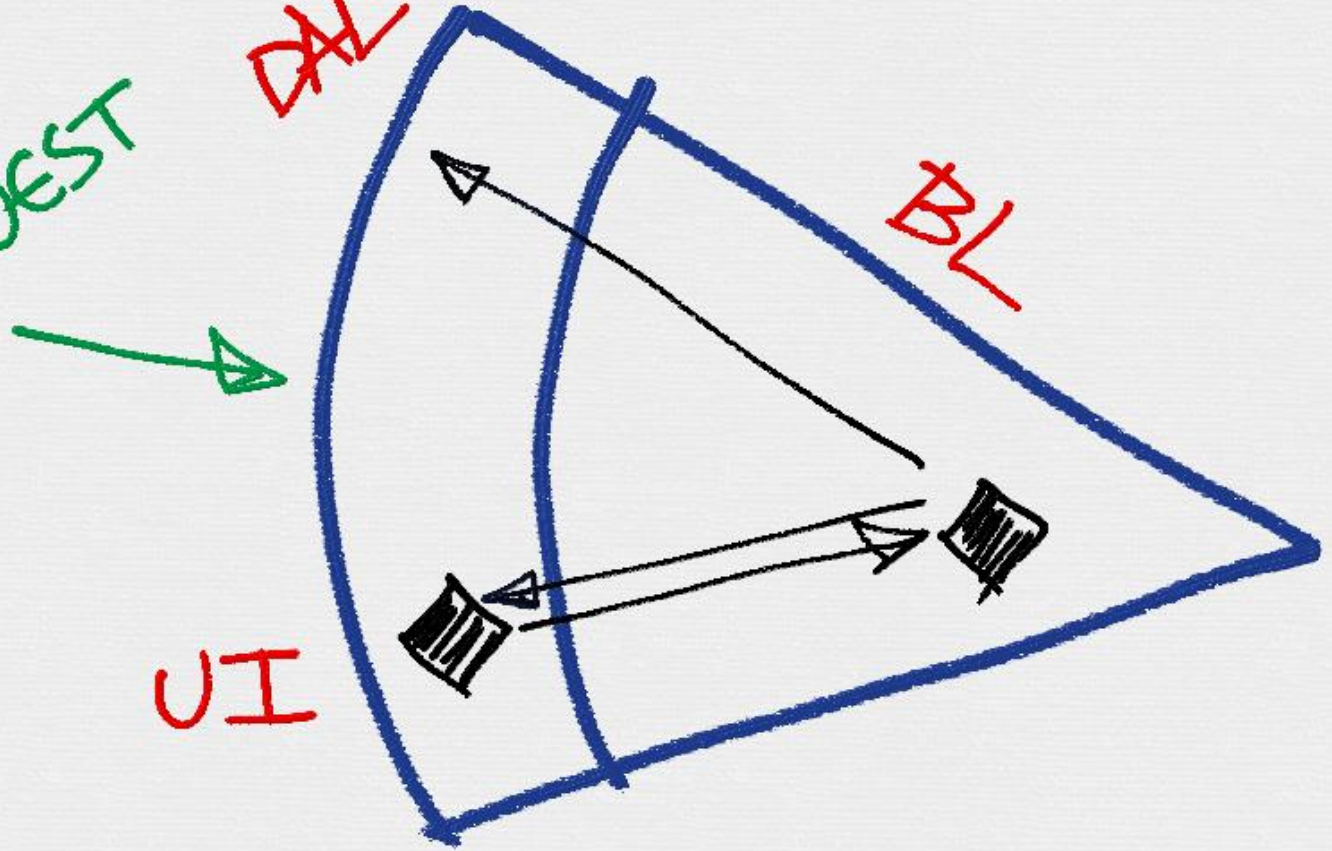
# Notifying others

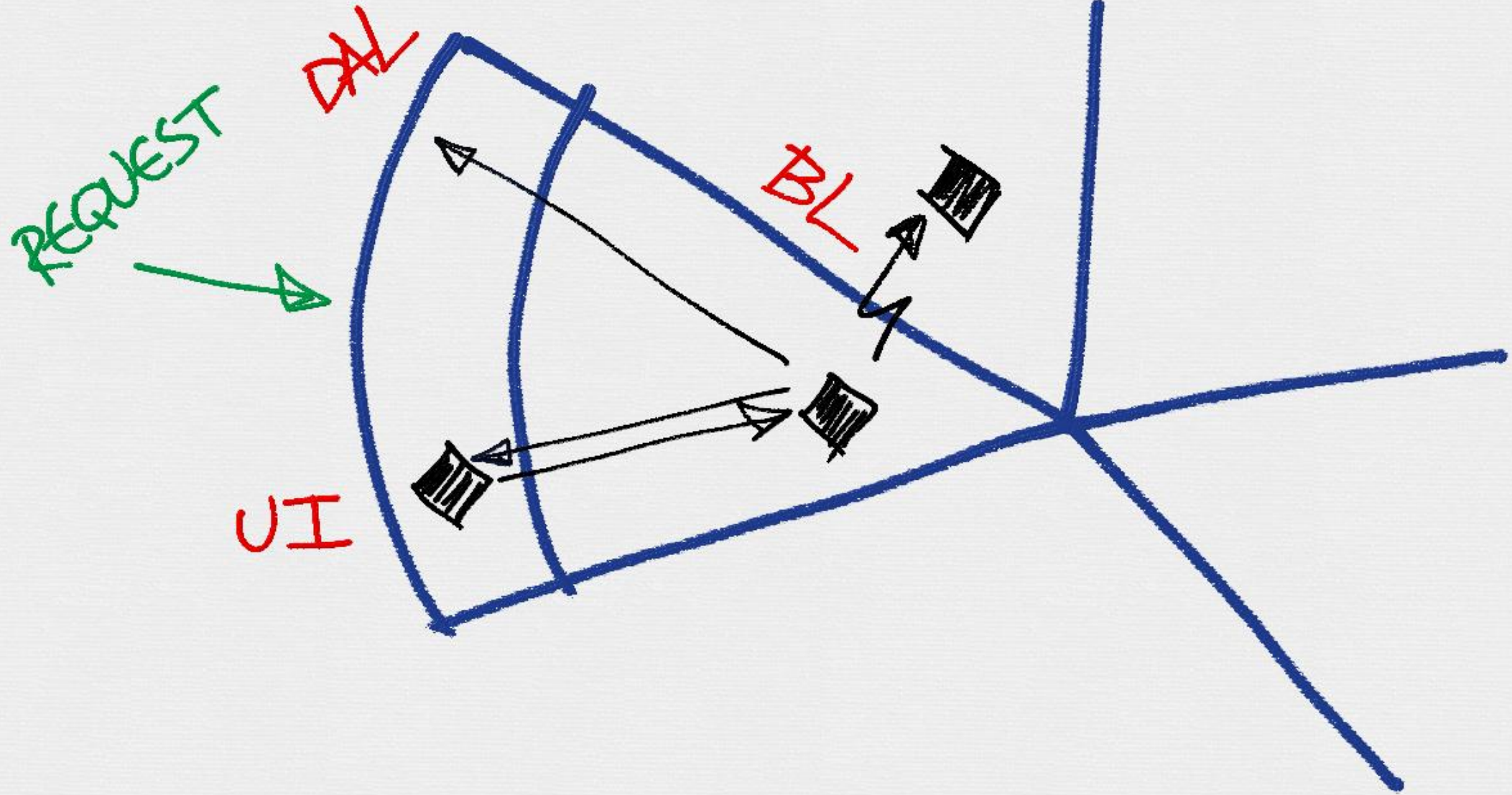
REQUEST

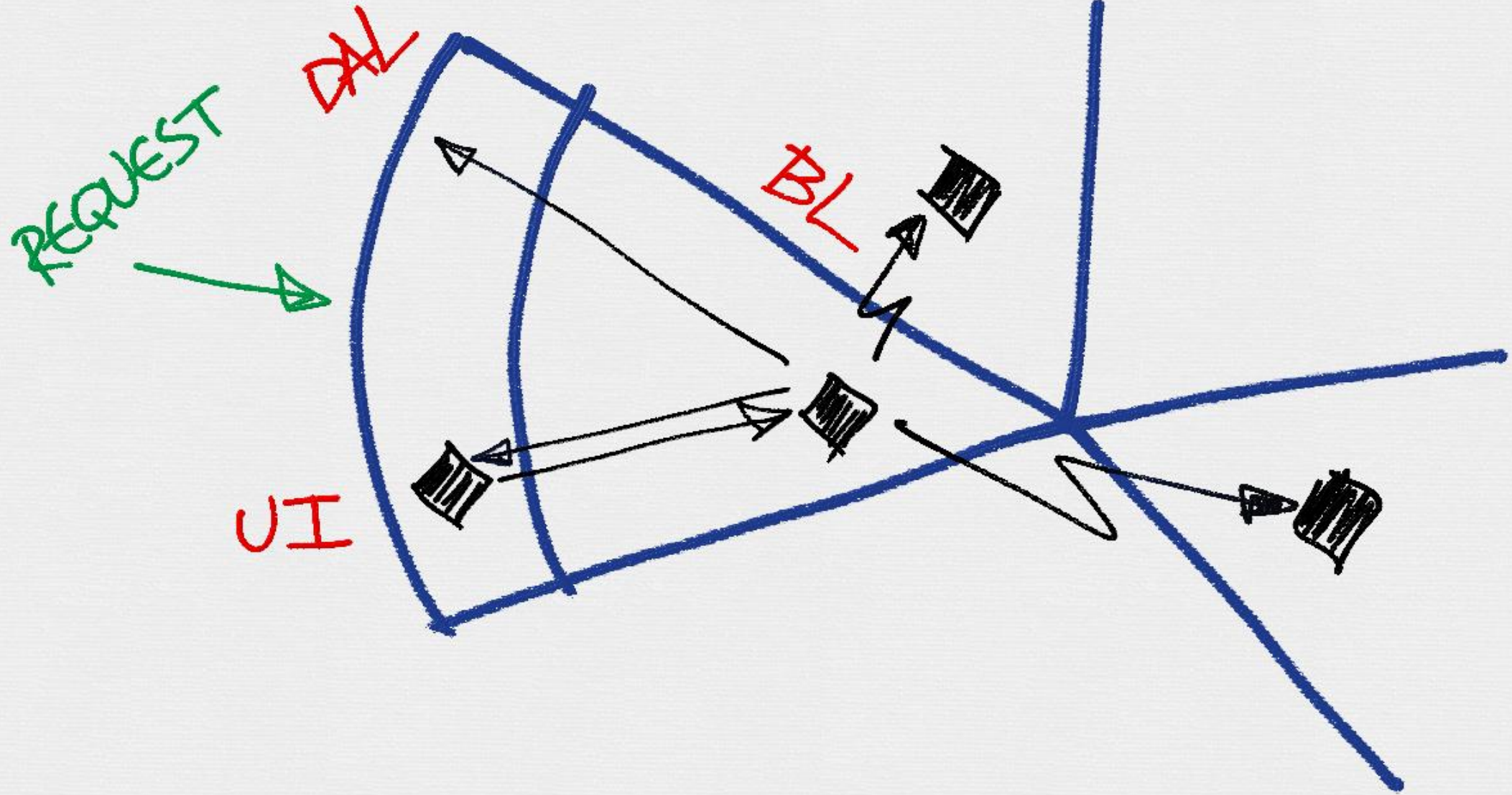
DL

BL

UI









The background of the image is a blurred photograph of a laptop. The keyboard is visible in the lower half, and the screen in the upper left corner shows lines of code. The code includes comments like 'first' and 'last', and function calls such as 'wp\_get\_attachment\_url'. The overall image has a soft, out-of-focus aesthetic.

# Messaging Pipeline



INITIATOR

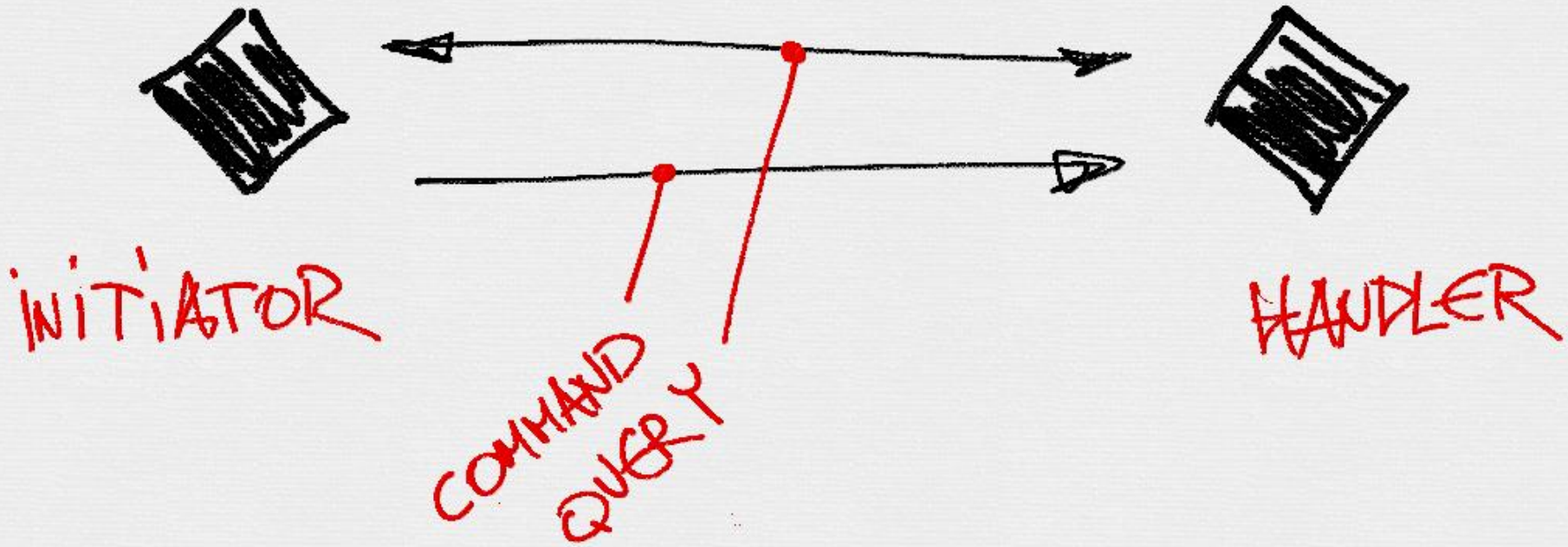


HANDLER

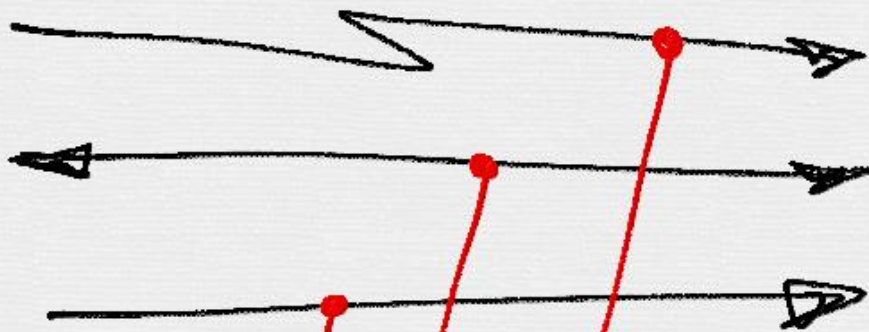


COMMAND





INITIATOR



COMMAND  
QUERY  
EVENT



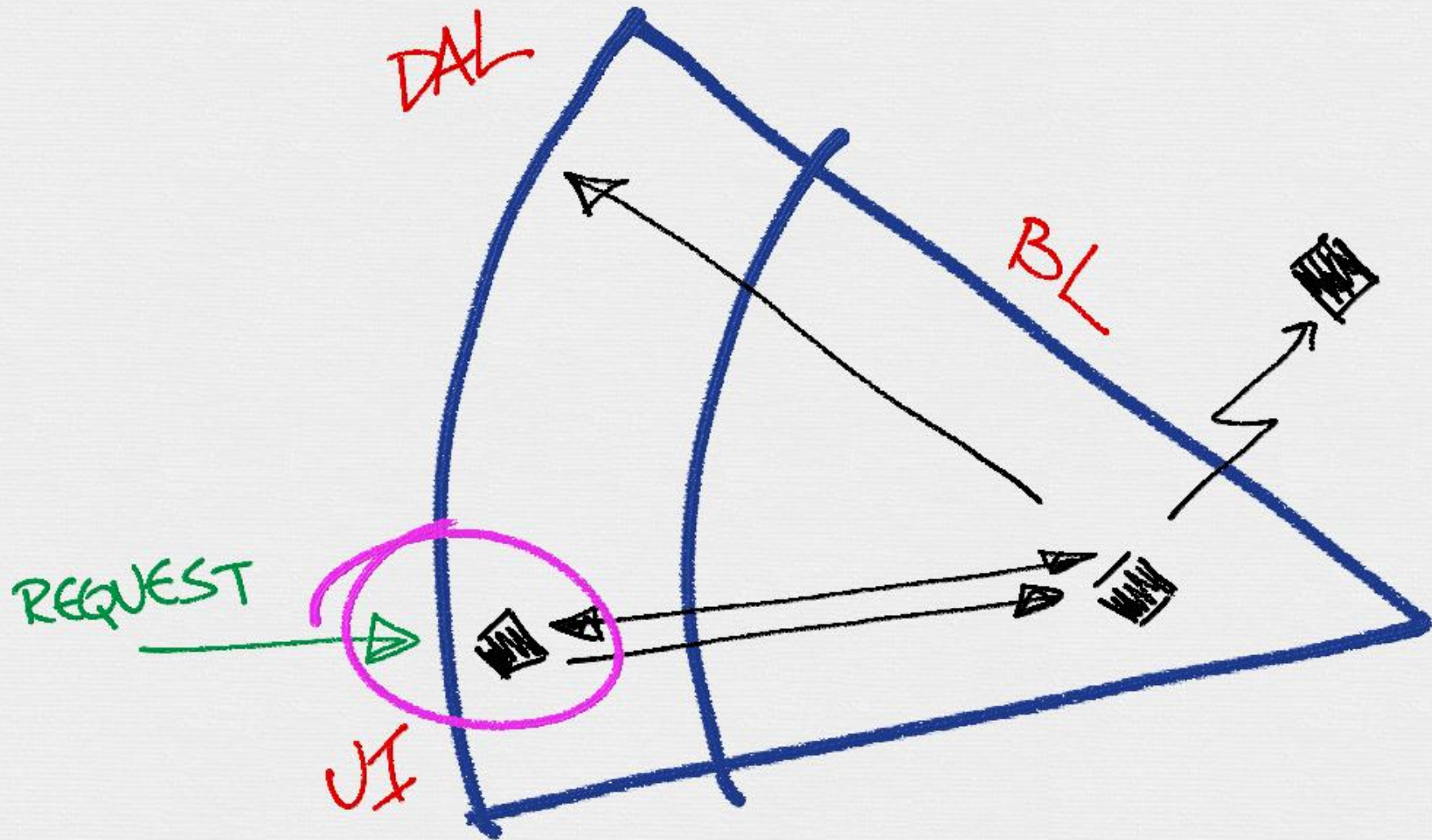
HANDLER



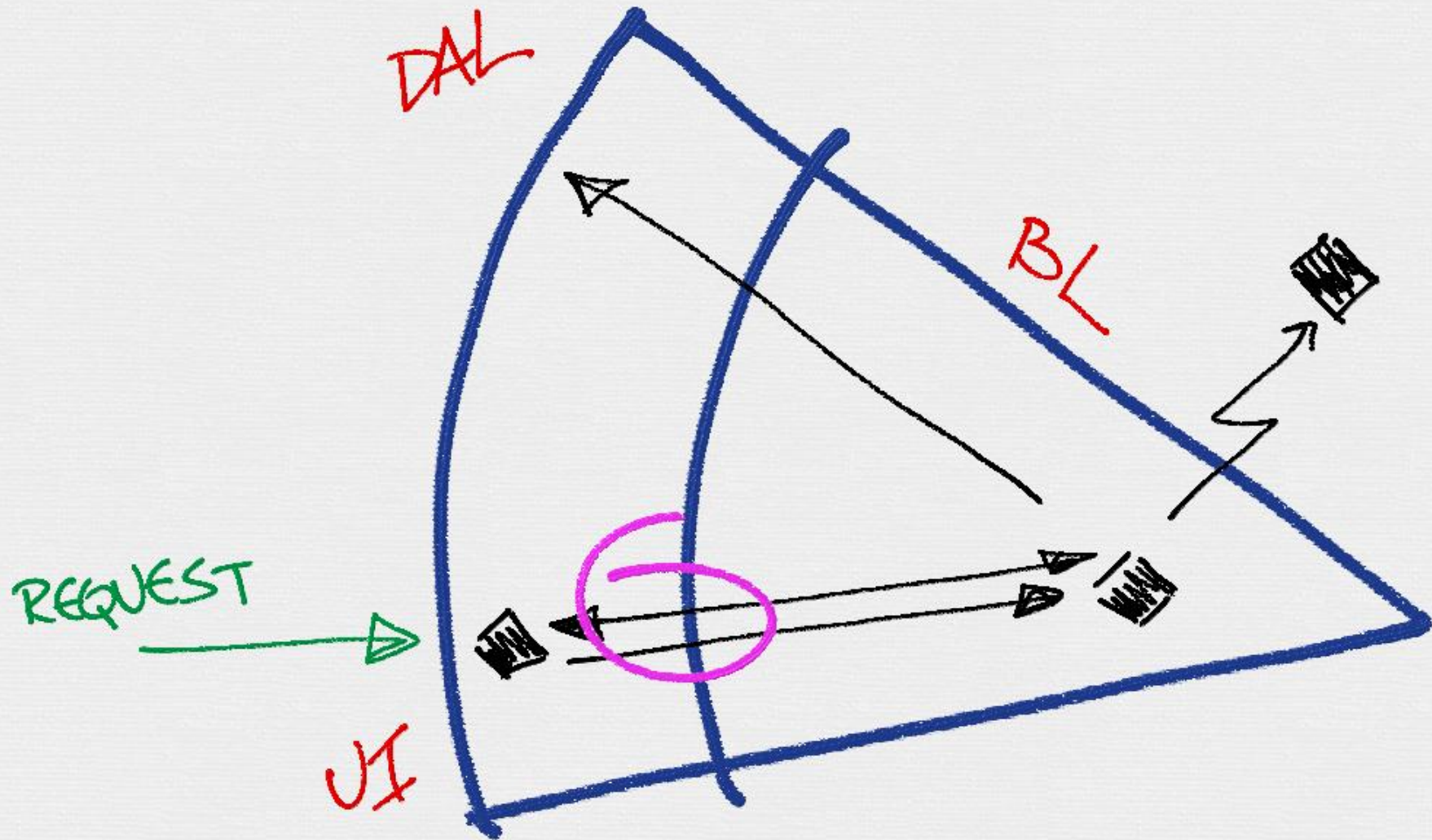
# Extending Messaging Pipeline

The background of the image is a blurred photograph of a laptop. The keyboard is visible in the lower half, and the screen in the upper left shows lines of code. The word "Validation" is centered in the middle of the image in a large, black, sans-serif font.

# Validation

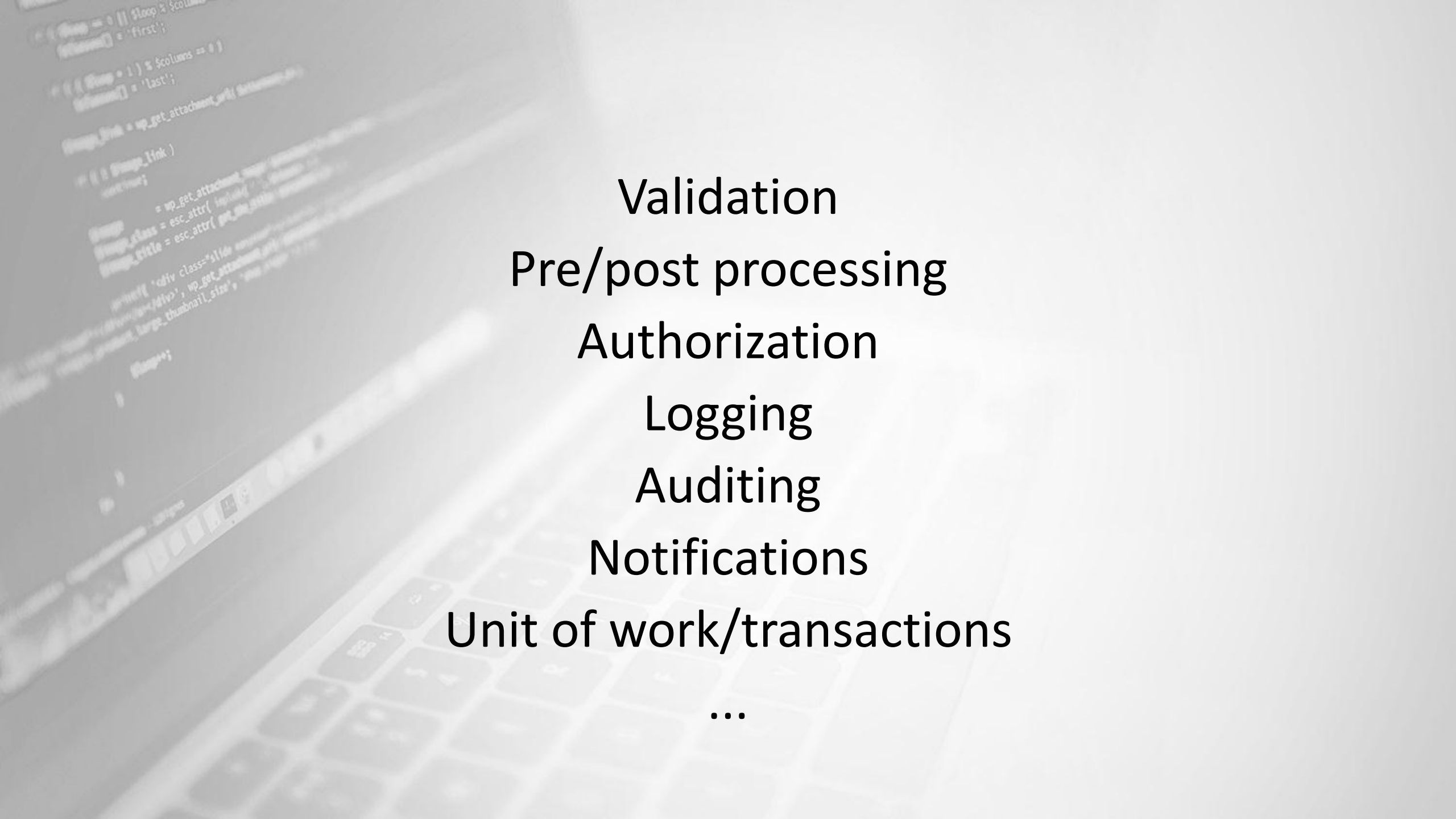








russian doll (“матрёшка”)  
model



```
for ( $loop = 0 ; $loop < $columns ; $loop++ )  
    $columns = 'first';  
  
for ( ( $loop = 1 ) ; $columns == 0 ; $loop++ )  
    $columns = 'last';  
  
$image_link = wp_get_attachment_url( $attachment_id );  
  
if ( ! $image_link )  
    continue;  
  
$image = wp_get_attachment_image( $attachment_id, $size );  
$image_class = esc_attr( $image );  
$image_title = esc_attr( $image );  
  
printf( '

', wp_get_attachment_url( $attachment_id ), $image_class, $image_title, $image_link, $image_size );  
$loop++;

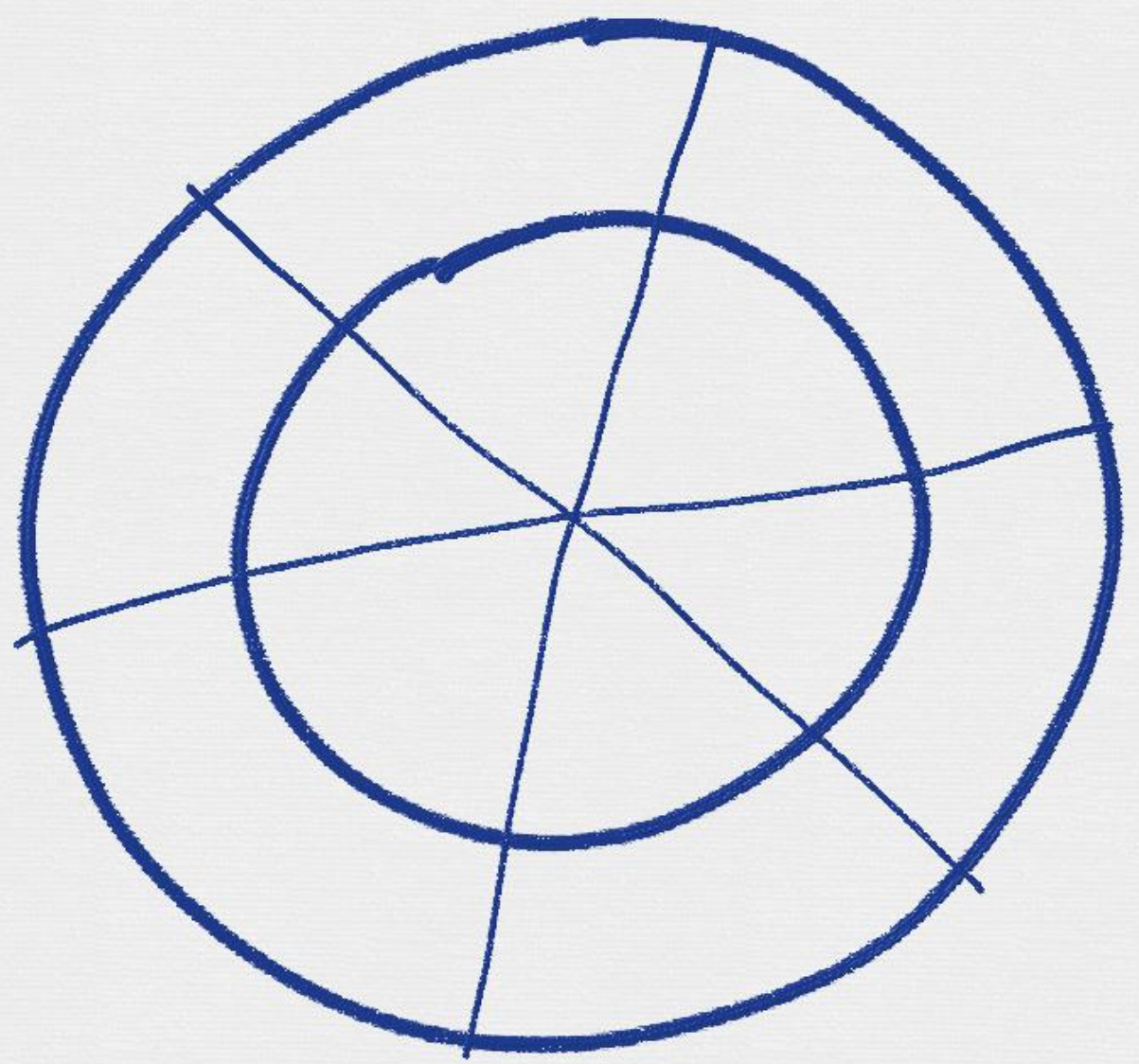

```

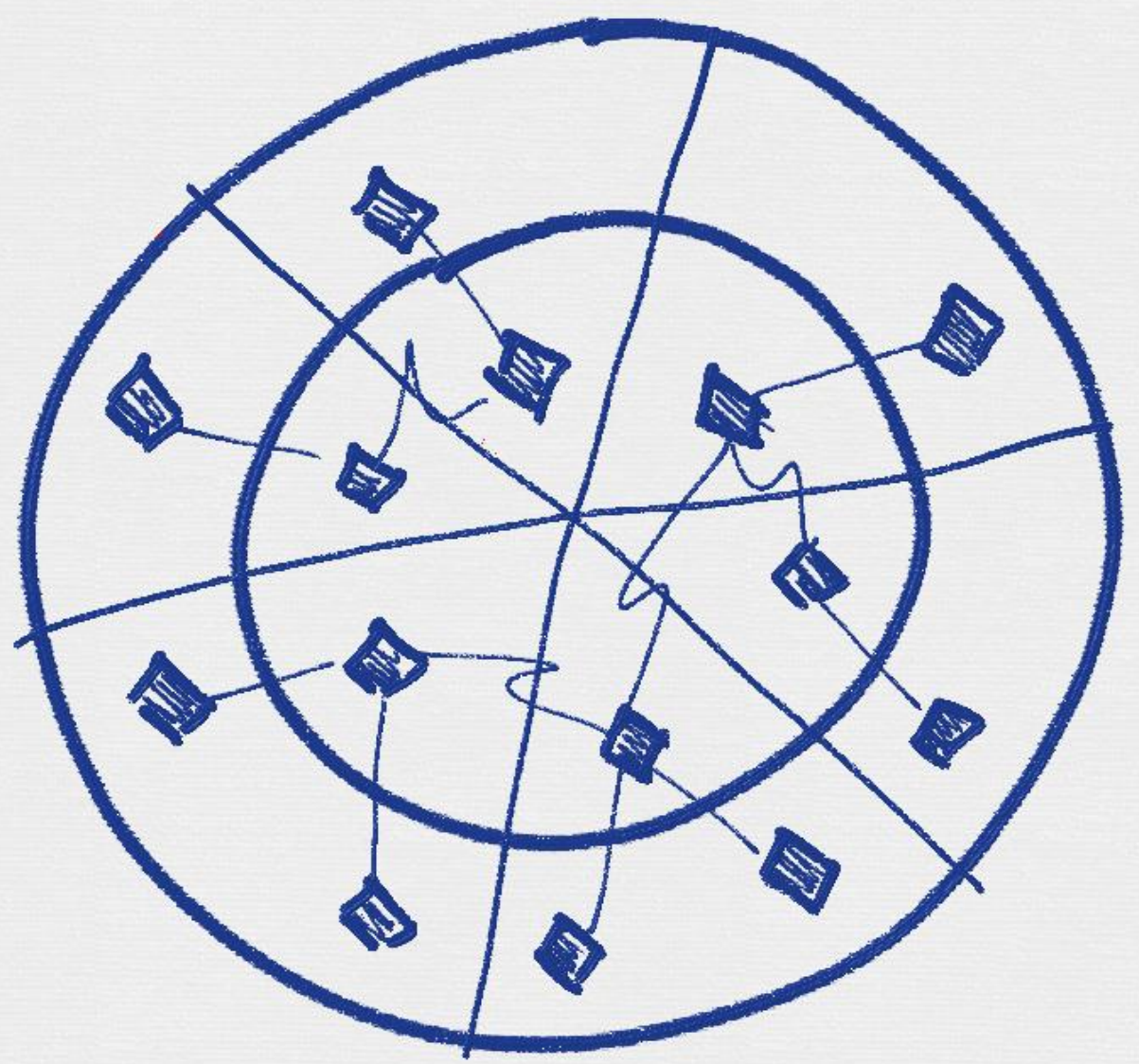
Validation  
Pre/post processing  
Authorization  
Logging  
Auditing  
Notifications  
Unit of work/transactions  
...

The background is a blurred image of a laptop. The screen shows PHP code with comments and function calls like `wp_get_attachment_url()` and `esc_attr()`. The keyboard is visible below the screen, with keys like 'T', 'G', '8', 'N', 'M', 'R', 'F', 'V', 'B', 'H', 'J', 'K', 'L', 'P', 'O', 'I', 'O', 'U', 'Y', 'I', 'O', 'U', 'Y' visible. The overall image is out of focus, emphasizing the text in the foreground.

**OOTB Solution?!**

# MediatR





The background is a blurred image of a laptop. The screen on the left shows lines of code, likely PHP, with some text like 'wp\_get\_attachment\_url' and 'wp\_get\_attachment\_image'. The keyboard is visible in the lower half of the image, with keys like '5', 'T', 'G', '8', 'R', 'F', 'V' clearly visible. The overall tone is light and professional.

# “Pizza Architecture”





pakalu papito

@pakalupapito



 Follow

pizza will never  
-talk behind your back  
-beat you up for no reason  
-steal your money  
-be mean to you

**SOFTWARE**

~~people~~ should be like pizza

RETWEETS

9,464

LIKES

13,121



1:31 PM - 6 Sep 2016



9.5K



13K



```
for ($loop = 0 || $loop = $columns; $loop < $columns; $loop++)
{
    $columns = 'first';
    $columns = 'last';
    $image_link = wp_get_attachment_url($attachment_id);
    $image_title = wp_get_attachment_title($attachment_id);
    $image_class = esc_attr(implode(' ', $classes));
    $image_title = esc_attr($image_title);
    $image_html = sprintf(
        '<div class="%s"></div>',
        $image_class, $image_title, $image_link
    );
    $loop++;
}
```

Thank You!



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[@DeveloperDaysPL](https://twitter.com/DeveloperDaysPL)

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