

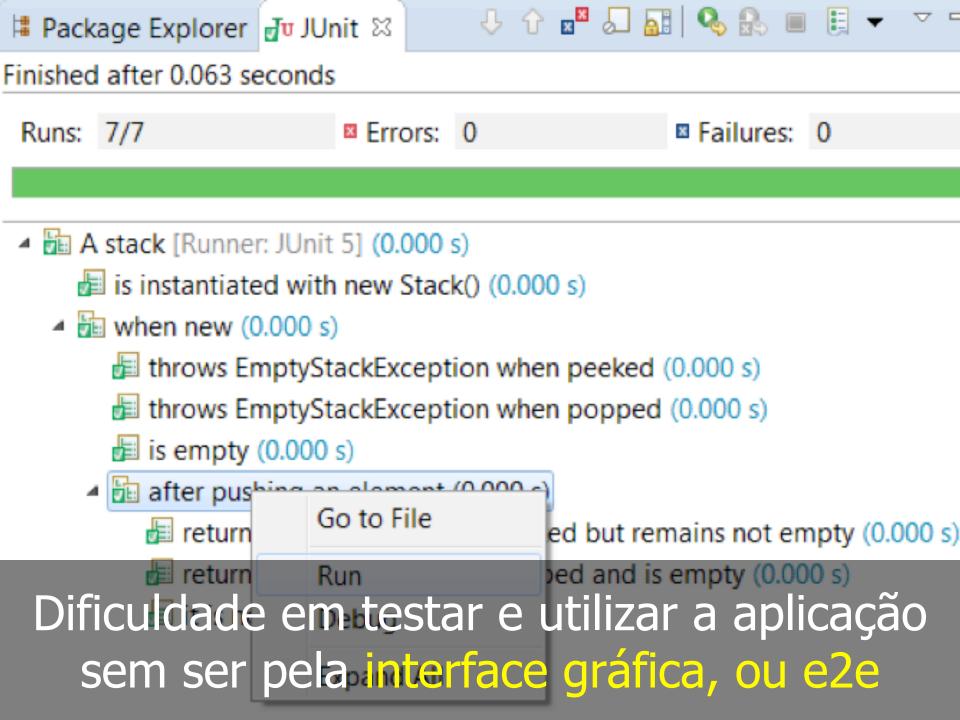
```
. . .
                                          user.php -- ports_and_adapters
                                                                                          П ...
m user.php X
       <?php
   1
            import_request_variables("pg", "form_");
   3
            $db = mysql_connect("localhost:/export/mysql/mysql.sock");
            mysql_select_db("app", $db);
            $rows = mysql_query("select name, email from users where userid = '$form_userid'",
            if(mysql_num_rows($rows) == 0) {
   6
                $error = "No such user name found";
            } else {
   8
                $user_name = mysql_result($rows, 0, 0);
   9
                $user_email = mysql_result($rows, 0, 1);
  10
  11
  12
       ?>
  13
       <html>
  14
            <head>
  15
                <title>User information</title>
  16
            </head>
  17
            <body>
  18
                <?php
  19
                    if(serror) {
                        echo "<h1>Error accessing user information</h1>\n";
  20
  21
                        echo "$error\n":
```

```
. . .
                                        user.php -- ports_and_adapters
                                                                                      П ...
m user.php X
               <title>User information</title>
 15
  16
           </head>
 17
           <body>
  18
               <?php
  19
                   if($error) {
 20
                       echo "<h1>Error accessing user information</h1>\n";
  21
                       echo "$error\n";
  22
                   } else {
  23
                       echo "<h1>Information about $form_userid</h1>\n";
  24
                       echo "User ID: <tt>$form_userid</tt>\n";
                       echo "Real name: $user_name\n";
  25
  26
                       echo "E-mail address: <tt>$user_email</tt>\n";
 27
  28
  29
           </body>
       </html>
  30
 31
```



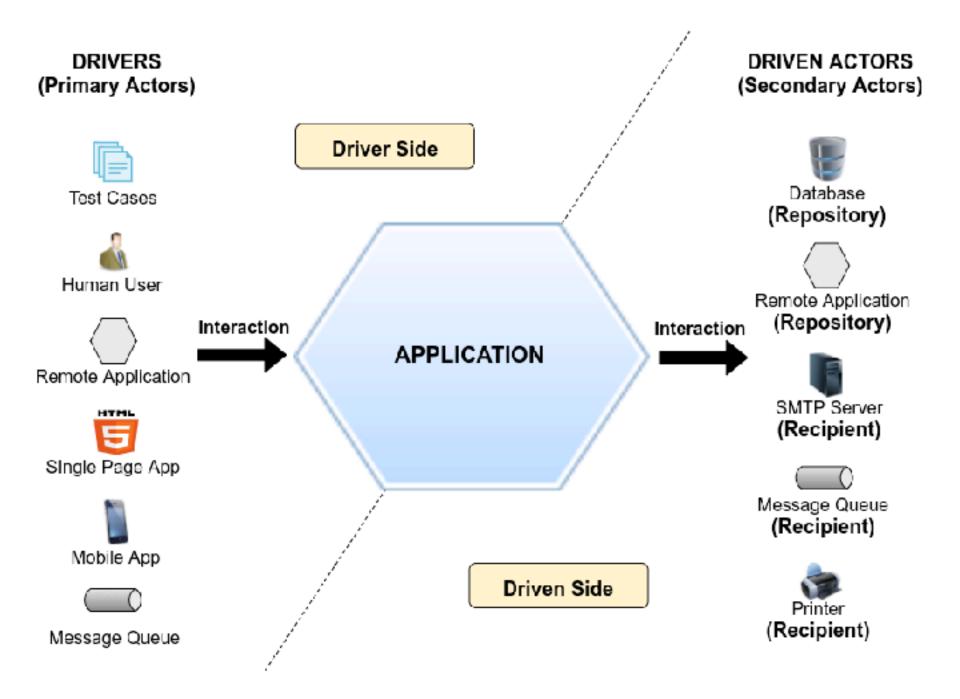
Qual é o problema?

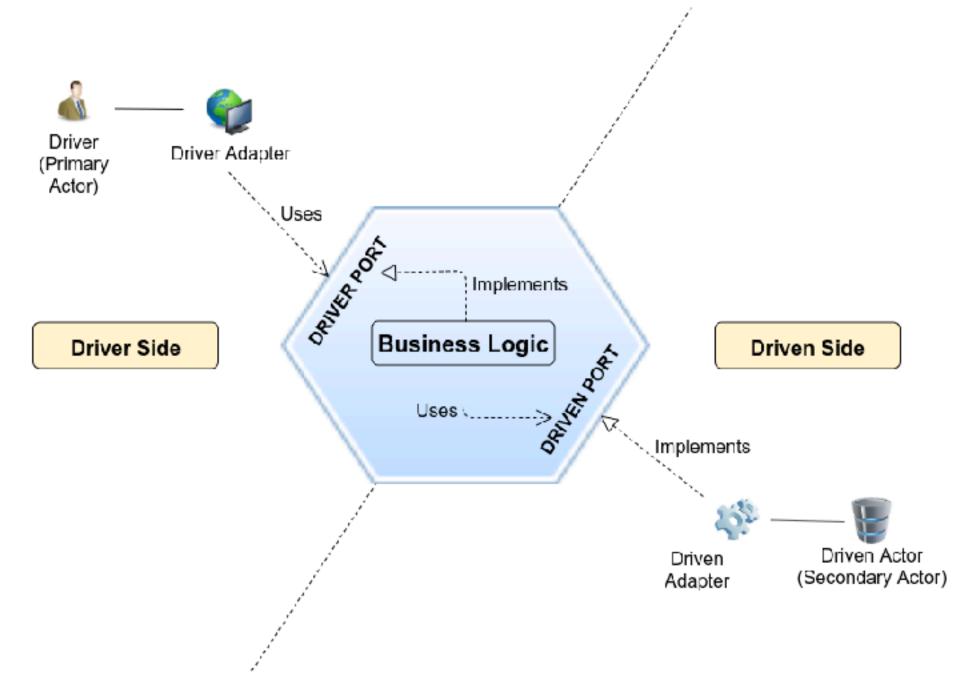
Um dos grandes problemas nas aplicações na década passada foi a implementação de regras de negócio e a interação com o banco de dados na interface gráfica



"Allow an application to equally be driven by users, programs, automated test or batch scripts, and to be developed and tested in isolation from its eventual run-time devices and databases"

Alistair Cockburn





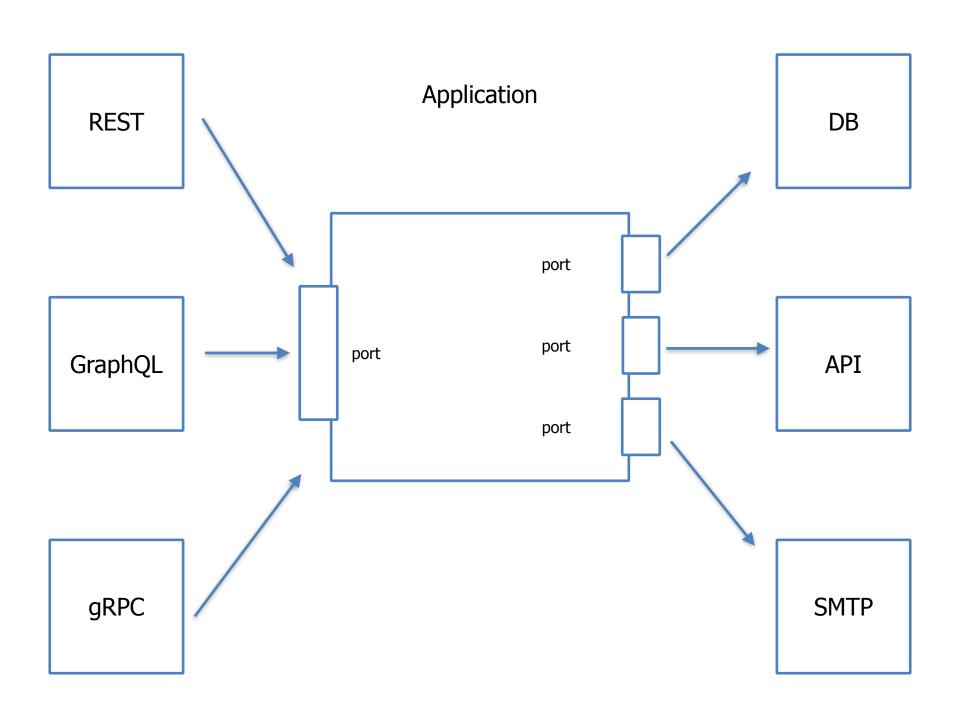


Porque um hexagono?

"The hexagon is not a hexagon because the number six is important, but rather to allow the people doing the drawing to have room to insert ports and adapters as they need, not being constrained by a one-dimensional layered drawing. The term hexagonal architecture comes from this visual effect"

Alistair Cockburn

A analogia com uma porta é exatamente a mesma que temos <u>quando pensamos em conectar</u> <u>qualquer tipo de dispositivo em um computador</u>, existe um contrato com um protocolo definido onde qualquer fornecedor pode adaptar sua tecnologia para interagir com a porta





Faz sentido aplicar em qual tipo e tamanho de projeto?