

About us

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```
let social = [ (1) (2) );
```

```
social.forEach(network => {
  console.log(`${network}/SocialNerdsGR`);
});
```

SocialNerds

- Mentoring
- Private workshops
- Consulting
- Recruitment
- (Put more marketing keywords here!!!!1)



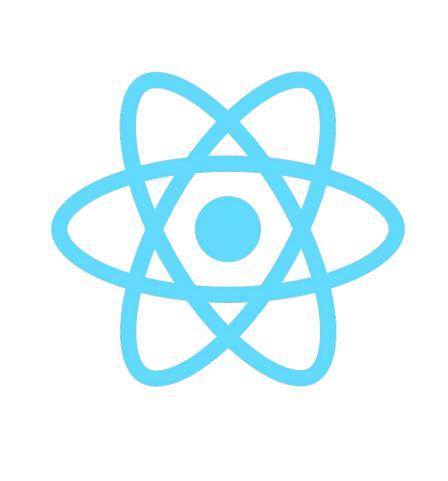
Design patterns

"A software design pattern is a general, reusable solution to a commonly occurring problem within a given context in software design"

Wikipedia



Microservices





Good habits

Comments

Obvious

```
// Persist user to database.
user.save();
```

Obvious

```
user.save();
```

Write code that doesn't need comments

```
// Check if user has admin role.
if (user.roles.contains(ADMIN_ROLE)) {
   // ...
}
```

```
if (user.isAdmin()) {
    // ...
}
```

```
// Calculate discount.
function calc() {
   // ...
}
```

```
function calculateDiscount() {
   // ...
}
```

```
class Shape {
  W;
  h;
  constructor(w, h) {
    this.w = w;
    this.h = h;
```

```
class Shape {
 width;
  height;
  constructor(width, height) {
    this.width = width;
    this.height = height;
```

```
class UserRepository {
  fetch(googeId) {
    // ...
  }
}
```

```
// Fetch by Google id.
userRepository.fetch(id);
```

```
class UserRepository {
  fetchByGoogleId(id) {
    // ...
  }
}
```

```
userRepository.fetchByGoogleId(id);
```

Sometimes comments are necessary

```
// @REMINDER
// Dear maintainer:
//
// Once you are done trying to 'optimize' this routine,
// and have realized what a terrible mistake that was,
// please increment the following counter as a warning
// to the next guy:
//
// total_hours_wasted_here = 42
```

Coding standards

Arguments

```
public function processJobs(userService, mailService, loggerFactory) {
```

Arguments

```
public function processJobs(
   userService,
   mailService,
   loggerFactory
) {
   // ...
}
```

Indentation

```
if (user.isActive()) {
            user.sendEmail();
    if (user.isAdmin())
        user.sendSlackNotification();
else {
  logger.error('MY EYES');
```

Code

Magic numbers

```
if (password.length < 7) {
   throw new PasswordException();
}</pre>
```

```
const MAX_PASSWORD_SIZE = 7;
if (password.length < MAX_PASSWORD_SIZE) {
  throw new PasswordException();
}</pre>
```

Magic strings

```
cacheService.set('latest_stories', data, LATEST_STORIES_CACHE_TIME)
```

```
const LATEST_STORIES_CACHE_ID = 'latest_stories';
cacheService.set(LATEST_STORIES_CACHE_ID, data, LATEST_STORIES_CACHE_TIME)
```

```
function register()
    if (!empty($ POST)) {
       $msq = '';
       if ($ POST['user name']) {
            if ($ POST['user password new']) {
                if ($ POST['user password new'] === $ POST['user password repeat']) {
                    if (strlen($ POST['user_password new']) > 5) {
                        if (strlen($ POST['user name']) < 65 && strlen($ POST['user name']) > 1) {
                            if (preg match('/^(a-z\d](2,64)$/i', $ POST['user name'])) (
                                Suser = read user($ POST['user name']);
                                if (!isset($user['user name'])) {
                                    if ($ POST['user_email']) {
                                        if (strlen($_POST['user_email']) < 65) {
                                            if (filter var($ POST['user email'], FILTER VALIDATE EMAIL)) (
                                                create user();
                                                $ SESSION['msg'] = 'You are now registered so please login';
                                                header('Location: ' . $_SERVER['PHP_SELF']);
                                                exit();
                                            } else $msg = 'You must provide a valid email address';
                                        } else $msg = 'Email must be less than 64 characters';
                                    ) else $msq = 'Email cannot be empty';
                                } else Smsg = 'Username already exists';
                            } clsc $msg = 'Username must be only a-z, A-Z, 0-9';
                        ) else $msg = 'Username must be between 2 and 64 characters';
                    } else $msg = 'Password must be at least 6 characters';
                } else Smsq = 'Passwords do not match';
            } else $msg = 'Empty Password';
        } clsc $msg = 'Empty Username';
        $ SESSION['mag'] = $mag;
```

return register_form();

```
<?php
     function saveFile($file) {
       if (!is_null($file)) {
        if (isImage($file)) {
          $file->save();
          return $file;
        else {
          throw new Exception('Not image');
       else {
13
        throw new Exception('Not file');
```

```
<?php
    function saveFile($file) {
       if (!is_null($file)) {
         if (isImage($file)) {
          $file->save();
           return $file;
        else {
           throw new Exception('Not image');
      else {
13
         throw new Exception('Not file');
```

```
<?php
   □ function saveFile($file) {
11
       $file->save();
12
       return $file;
13
14
15
```

```
<?php
    function saveFile($file) {
      if (!is_null($file)) {
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          $file->save();
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        throw new Exception('Not file');
      if (!isImage($file)) {
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       $file->save();
12
       return $file;
```

One level of indentation

```
getActiveUsers() {
 activeUsers = [];
  users.forEach(function(user) {
    if (user.isActive()) {
      activeUsers.push(user);
  return activeUsers;
```

One level of indentation

```
getActiveUsers() {
 activeUsers = [];
 users.forEach(function(user) {
    if (user.isActive()) {
      activeUsers.push(user);
  });
  return activeUsers;
```

One level of indentation

```
getActiveUsers() {
  return users.filter(function(user) {
    return user.isActive();
  });
```

```
class UserMail {
  public function sendMail($user) {
   Mail::send($user->mail, 'Welcome message!');
}
}
```

```
interface MailServiceInterface {
  public function send($mail, $message);
}
```

```
class MailService implements MailServiceInterface {
   public function send($mail, $message) {
        Mail::send($mail, $message);
   }
}
```

```
class UserMail {
       protected $mailService;
       function __construct(MailServiceInterface $mailService) {
         $this->mailService = $mailService;
8
9
10
       public function sendMail($user) {
         $this->mailService->send($user->mail, 'Welcome message!');
12
```

```
$ $user = UserRegistration::register($userData);
$ $mailService = new MailService();
$ $userMail = new UserMail($mailService);
$ $userMail->sendMail($user->mail);
```

```
class NonMailService implements MailServiceInterface {
  public function send($mail, $message) {
    fwrite(STDOUT, $mail + ' ' + $message);
  }
}
```

```
$ $user = UserRegistration::register($userData);
$ $mailService = new NonMailService();
$ $userMail = new UserMail($mailService);
$ $userMail->sendMail($user->mail);
```

Practice



Ask questions!

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