

Fastcampus

Frontend Dev SCHOOL

colaborate with git, websocket

Agile Process

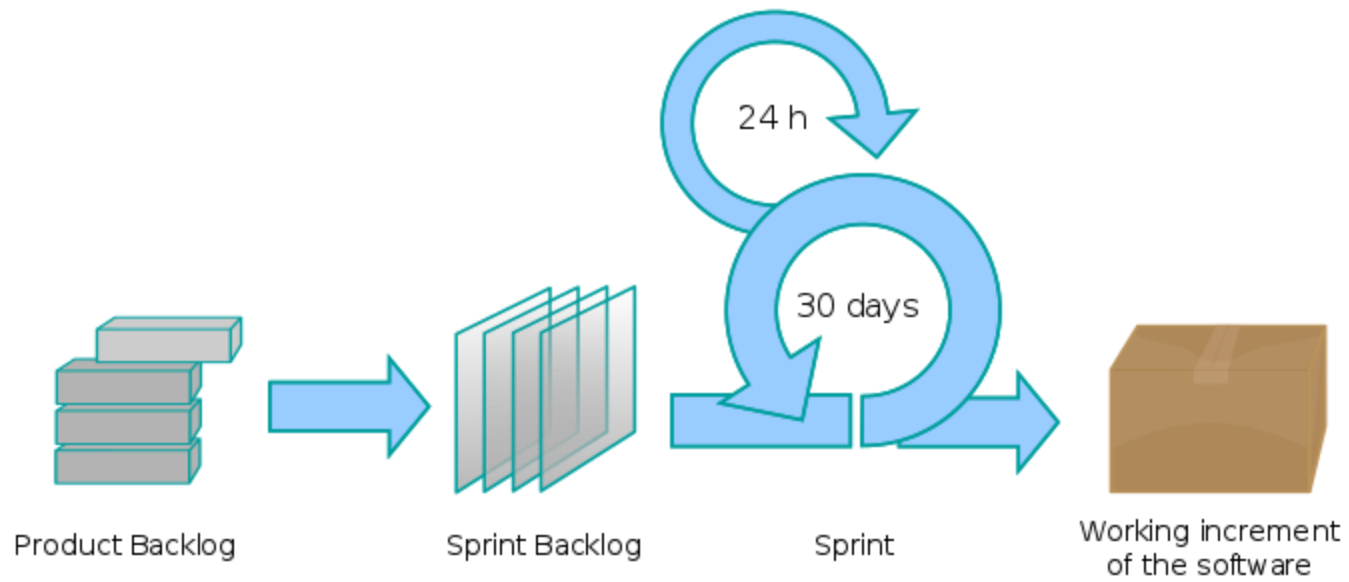
Scrum

- an iterative and incremental agile software development framework for managing product development

Scrum

- The **product owner** represents the stakeholders and is the voice of the customer, who is accountable for ensuring that the team delivers value to the business.
- The **development team** is responsible for delivering potentially shippable increments (PSIs) of product at the end of each sprint (the sprint goal).
- facilitated by a **scrum master**, who is accountable for removing impediments to the ability of the team to deliver the product goals and deliverables.

Sprint



Planning Poker

- 애자일 추정을 위해 사용하는 도구
- 모든 팀원이 한가지 과제에 대해 충분히 토론하고 작업시간을 추정하기 위함
- deck 구성
0, 1/2, 1, 2, 3, 5, 8, 13, 20, 40, 100, ?, 무한대, 커피
- 점수는 단위 작업시간(8시간)을 의미함

Planning Poker

- 플레이방법
 - i. 추정할 과제를 가장 잘 아는 사람이 해당 과제에 대해 설명합니다.
 - ii. 다른 사람은 추정에 필요한 정보를 얻기위해 질문과 토의를 합니다.
 - iii. 각자 생각하는 이 과제의 점수를 보이지 않게 내려놓습니다.
 - iv. 점수를 공유하고 가장 낮은 점수, 가장 높은 점수를 낸 팀원이 이 점수를 낸 이유에 대해 설명합니다.
 - v. 모든 팀원이 같은 점수를 낼 때 까지 3~4의 반복

일정 추정 과제

1. 은행 예금 계좌 및 체크카드 발급절차
2. Fizzbuzz(조건문 반복문으로, map, filter로)
3. Profile Porfolio Page

ex)

회차 최소 최대 중간값

1 1 10 5

2 4 8 6

3 5 5 5

Pair Programming

Pair Programming

- 시니어와 주니어가 한 팀을 이뤄 노하우를 전수하거나 같은 과제에 대해 충분한 논의를 함으로써 생산성 향상을 도모
- Navigator와 Driver가 한 팀을 이뤄 실시
- Navigator는 해당 과제에 대해 주도적으로 의견을 제시하고 Driver는 Navigator가 지시하는 대로 작업하되, 이해되지 않는 부분이 있다면 이의를 제기
- 약속한 시간이 지나면 Navigator와 Driver의 역할 변경
- 과제를 해결할 때 까지 반복

Pair Programming

So, Let's Try!!

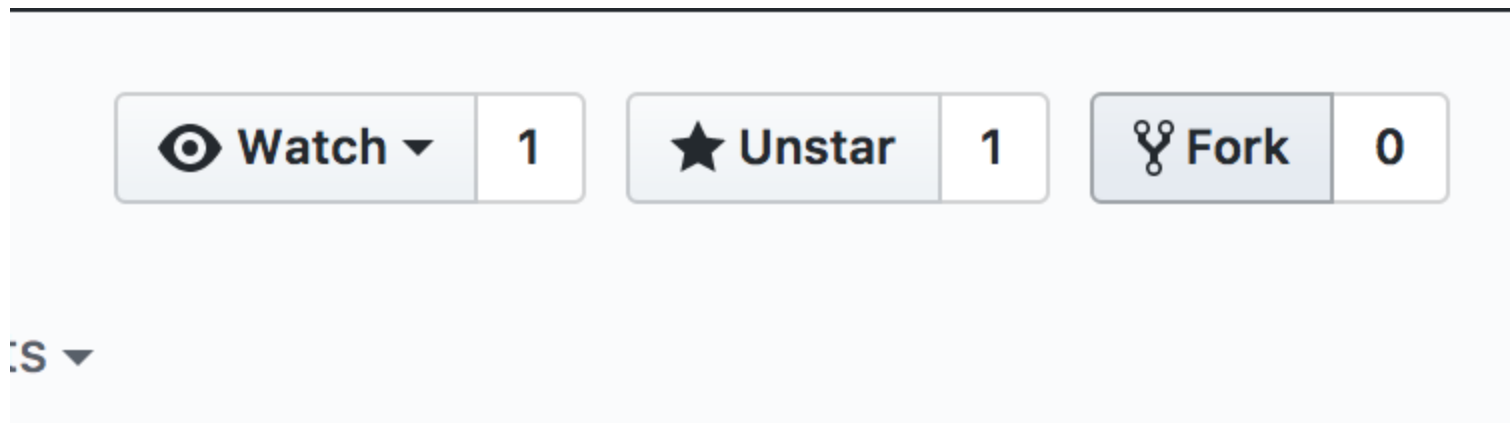
Code Review

검토사항

- 요구사항
- 설계요구 충족여부
- 과도한코딩
- 같은 기능
- 함수의 입출력
- 빌딩블록(API, 라이브러리, 자료구조, ..)
- 변수 사용전 초기화

collaborate with git flow

Method 2: Fork and Merge

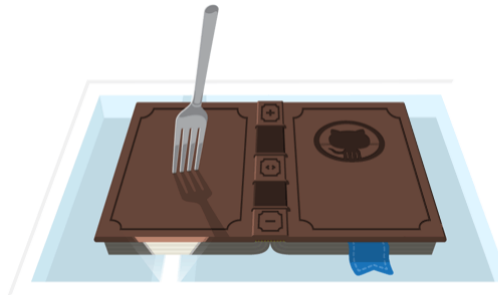


Fork and Merge

Forking JKeun/study-of-regression-toyota-corolla

It should only take a few seconds.

 Refresh



Fork and Merge

 **ulgoon / study-of-regression-toyota-corolla**

forked from [JKeun/study-of-regression-toyota-corolla](#)

 **Code**

 Pull requests **0**

 Projects **0**

 Wiki



 **Study - Regression Analysis using ToyotaCorolla dataset**

[Add topics](#)

 **9** commits

 **1** branch

Branch: **master** ▼

New pull request

Fork and Merge

```
$ git clone https://github.com/username/forked-repo.git
```

```
$ git remote add upstream
```

```
https://github.com/anotheruser/original-repo.git
```

Fork and Merge

```
$ git fetch upstream
```

```
$ git merge upstream/master
```

```
$ git branch -a
```

```
$ git checkout -b new-feature
```

Fork and Merge

Make some change

```
$ git add file
```

```
$ git commit -m "commit message"
```

```
$ git push origin new-feature
```

Fork and Merge

No description, website, or topics provided.

Edit

[Add topics](#)

📦 1 commit

🌿 3 branches

📦 0 releases

👤 1 contributor

Your recently pushed branches:


🌿 **edit-index** (less than a minute ago)

🔗 Compare & pull request

Fork and Merge

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

 base fork: kingwangzzang1234/kingwa... ▼ base: master ▼ ... head fork: ulgoon/kingwangzzang1234... ▼ compare: edit-index ▼

✓ **Able to merge.** These branches can be automatically merged.



edit index.html

Write

Preview

AA ▼ B i “ <> 🔗 ☰ ☷ ✓ ↶ @ 📌

add header, footer tag


Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard.

☒ Allow edits from maintainers. [Learn more](#)


Create pull request

Fork and Merge

edit index.html #2

 **Open** ulgoon wants to merge 1 commit into `kingwangzzang1234:master` from `ulgoon:edit-index`

 Conversation **0**

 Commits **1**

 Files changed **1**





ulgoon commented 17 seconds ago

Contributor



add header, footer tag

  edit index.html ...

d81b362


Add more commits by pushing to the **edit-index** branch on [ulgoon/kingwangzzang1234.github.io](https://github.com/ulgoon/kingwangzzang1234).




This branch has no conflicts with the base branch

Only those with [write access](#) to this repository can merge pull requests.


Fork and Merge




☐  1 Open ✓ 1 Closed

☐  **edit index.html**
#2 opened 28 seconds ago by ulgoon

Fork and Merge

edit index.html #2

 **Open** ulgoon wants to merge 1 commit into `kingwangzzang1234:master` from `ulgoon:edit-index`

 Conversation **0**  Commits **1**  Files changed **1**



ulgoon commented 38 seconds ago

Contributor



add header, footer tag



 edit index.html ...

d81b362

Add more commits by pushing to the **edit-index** branch on [ulgoon/kingwangzzang1234.github.io](https://github.com/ulgoon/kingwangzzang1234).



This branch has no conflicts with the base branch

Merging can be performed automatically.

Merge pull request



You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Fork and Merge

edit index.html #2



ulgoon wants to merge 1 commit into `kingwangzzang1234:master` from `ulgoon:edit-index`



Conversation 0

Commits 1



Files changed 1



ulgoon commented 38 seconds ago

Contributor



add header, footer tag



edit index.html ...

d81b362

Add more commits by pushing to the **edit-index** branch on [ulgoon/kingwangzzang1234.github.io](https://github.com/ulgoon/kingwangzzang1234).



Merge pull request #2 from ulgoon/edit-index

edit index.html

Confirm merge

Cancel

Fork and Merge

edit index.html #2

Merged kingwangzzang... merged 1 commit into kingwangzzang1234:master from ulgoon:edit-index just now

Conversation 0 Commits 1 Files changed 1



ulgoon commented 38 seconds ago

Contributor



add header, footer tag

edit index.html ...

d81b362



kingwangzzang1234 merged commit 45d71fa into kingwangzzang1234:master just now

Revert

continuous pull

continuous pull

```
$ git remote add upstream
```

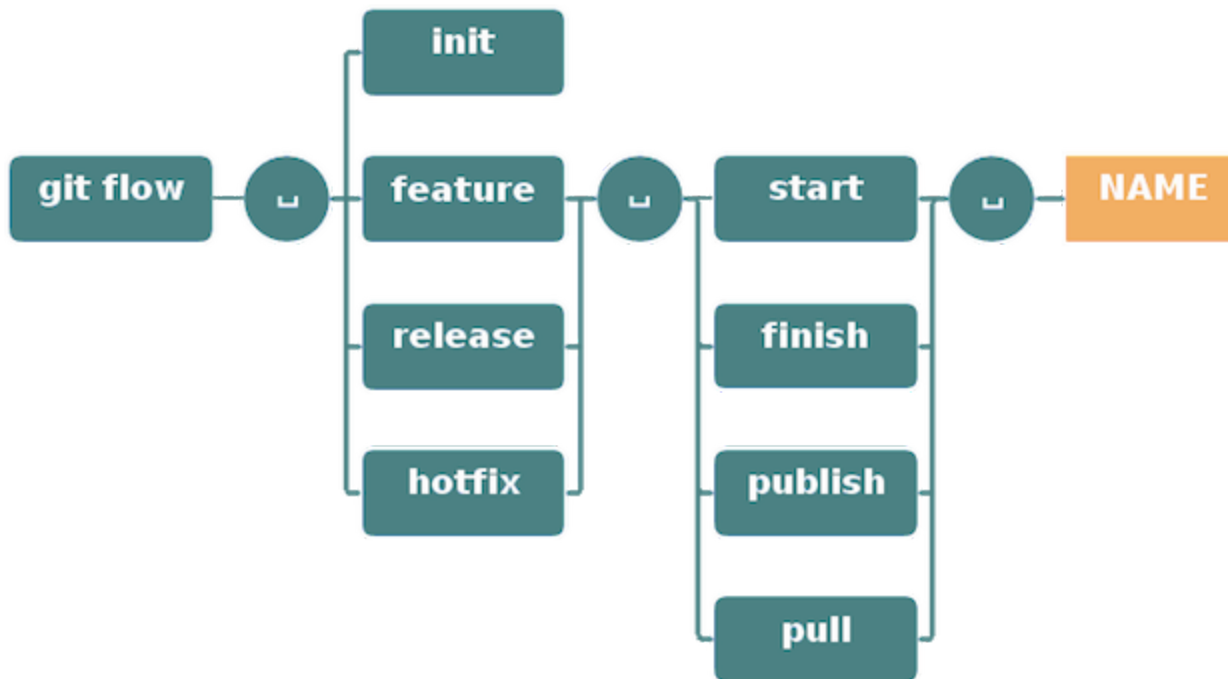
```
https://github.com/anotheruser/original-repo.git
```

```
$ git fetch upstream
```

```
$ git merge upstream/master
```

use git flow easily!

[Link](#)



git flow practice

master -> develop -> features -> develop -> release -> master

Websocket

Request & Response

Communication channels

- simplex
- half-duplex
- full-duplex

simplex

단방향통신

데이터를 전송하는 방향이 정해져있는 방식

half-duplex

반이중통신

전송의 방향은 양방향이나 전송 순간에는 한쪽에서만 전송가능한
방식

full-duplex

양방향통신

| 동시에 송수신이 가능한 방식

Websocket

웹사이트가 사용자와 상호작용하기 위해 만들어진 기술

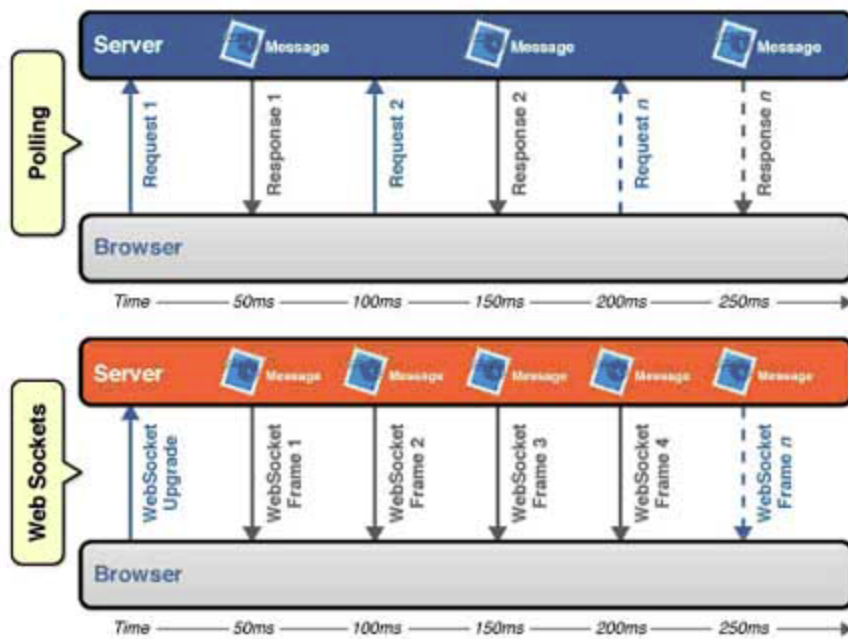
W3C가 API를 관리

port:80, HTTP1.1

Before Websocket

- HTTP Request, Response
- Hidden Frame
- Long Polling

Polling vs Websocket



Differences between Socket, Websocket

Socket - HTTP run over TCP/IP

Websocket - run from web browser

WebSocket

HTML5의 표준 full-duplex 통신 방식

<https://html.spec.whatwg.org/multipage/web-sockets.html#network>

socket.io

```
npm install --save socket.io
```

- 실시간 통신기술의 웹 브라우저 호환성 문제 해결을 위한 프로젝트
- IE6 부터 최신 브라우저까지 지원
- WebSocket, Flash Socket, AJAX Long Polling, AJAX Multipart Streaming, Forever iframe, JSONP Polling 기술 모두 포함
- 브라우저에 따라 최적화된 기술 사용
- 일관성있는 문법과 API로 개발 가능

[https://caniuse.com/#search=web sockets](https://caniuse.com/#search=web%20sockets)

chat.ejs

```
<style>
  * { margin: 0; padding: 0; box-sizing: border-box; }
  body { font: 13px Helvetica, Arial; }
  form { background: #000; padding: 3px; position: relative; }
  form input { border: 0; padding: 10px; width: 90%; }
  form button { width: 9%; background: rgb(130, 224, 255); border: 1px solid #ccc; }
  #messages { list-style-type: none; margin: 0; padding: 0; }
  #messages li { padding: 5px 10px; }
  #messages li:nth-child(odd) { background: #eee; }
</style>

<ul id="messages"></ul>
<form action="">
  <input id="m" autocomplete="off" /><button>Send</button>
</form>
```

connection

```
var http = require("http").Server(app);
var io = require("socket.io")(http);

io.on("connection", function(socket){
    console.log("a user connected");
});

http.listen(8080, function(){
    console.log("Chat Server is running at localhost:8080");
});
```

```
<script src="/socket.io/socket.io.js"></script>
<script>
    var socket = io();
</script>
```

disconnect

```
socket.on("disconnect", function(){  
    console.log("user disconnected");  
});
```

emit message

```
socket.on("chat message", function(msg){  
    console.log("message: " + msg);  
});
```

```
<script src="http://code.jquery.com/jquery-1.11.1.js"></script>  
  
var socket = io();  
$("form").submit(function(){  
    socket.emit("chat message", $("#m").val());  
    $("#m").val("");  
    return false;  
});
```

broadcast

- unicast : 1:1. 출발지와 목적지가 정해진 전송
- broadcast : 네트워크에 접속된 모든 기기에 정보를 전송
- multicast : 네트워크에 접속된 기기 중 선택하여 전송

broadcast

```
io.emit("chat message", msg);
```

```
socket.on("chat message", function(msg){  
    $("#messages").append($("#<li>").text(msg));  
});
```

Let's rebuild websocket with co-worker!