```
2 < h1>
     Techno Web
4</h1>
```



RÉMI POURTIER

> accenture





RECHARGE +

LA FABRIQUE LOGICIEL

5 Évaluation régulière GIT

- → Tous les membres du groupe doivent contribuer au projet
- → Nous regarderons chaque semaine les contributions de chaque projet
- → La régularité de votre travail comptera dans l'évaluation "Évaluations techniques"

→ Approche projet!

1 starter de code Frontend : https://classroom.github.com/a/RI2sB5fM

1 point de départ : le sujet et sa documentation technique : https://lms.univ-cotedazur.fr/2022/course/view.php?id=10101§ion=11 #tabs-tree-start

Basés sur un exemple de code :

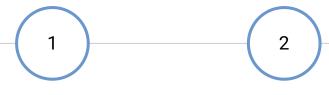
https://github.com/NablaT/ps6-correction-td1-td2-v2

2 TDs:

- TD 1 frontend
- TD 2 backend

→ La démarche pour développer

Objectif: Développer la fonctionnalité A



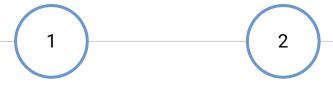
Sujet

Documentation Technique

Comprendre les concepts

→ La démarche pour développer

Objectif: Développer la fonctionnalité A



Sujet

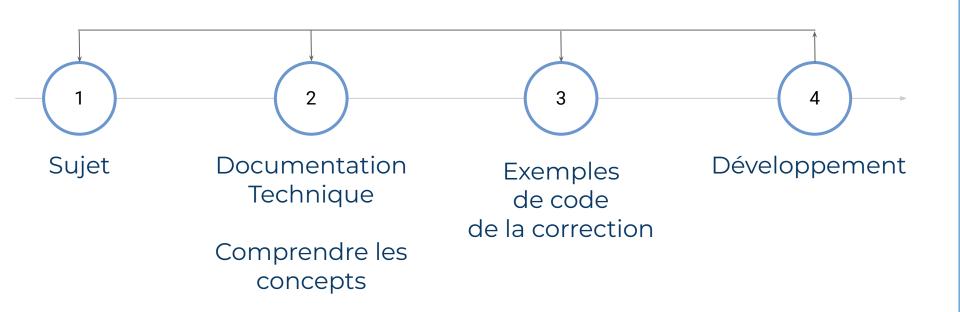
Documentation Technique

Découverte LMS

Comprendre les concepts

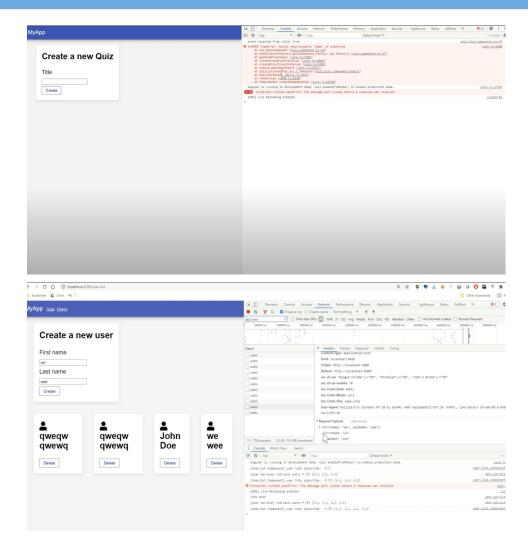
→ La démarche pour développer

Objectif: Développer la fonctionnalité A



Présentation du starter

Implémentation de la gestion des utilisateurs



→ Approche projet!

Les clés pour réussir :

Avancez tous chaque semaine sur le projet

Bonne **répartition** du travail

Profitez de l'équipe encadrante

Vous avez les bases



Frameworks

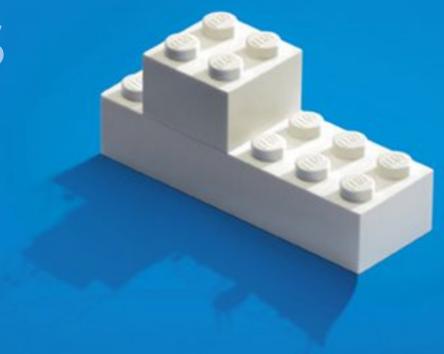




13ANGULAR



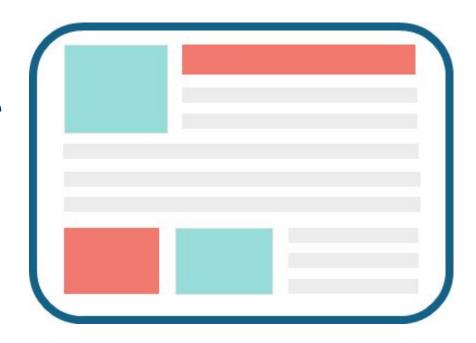
WEB COMPONENTS



Approche modulaire

À quoi ressemble une page web?

Juste une grosse entité



Approche modulaire

Qui peut être complexe...



Approche modulaire

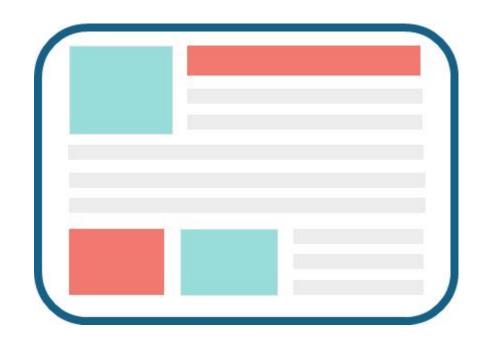
Conséquences?

Duplication de code, difficile à modifier et à maintenir

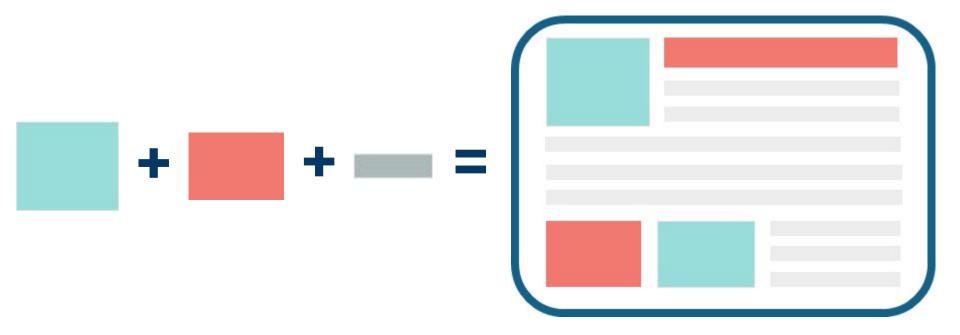


Approche modulaire

Comment découper cette page ?



Approche modulaire



Approche modulaire

Et en vrai, on fait comment?



Approche modulaire

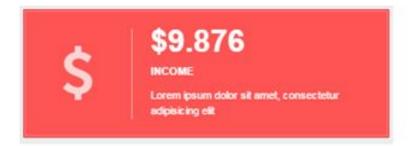








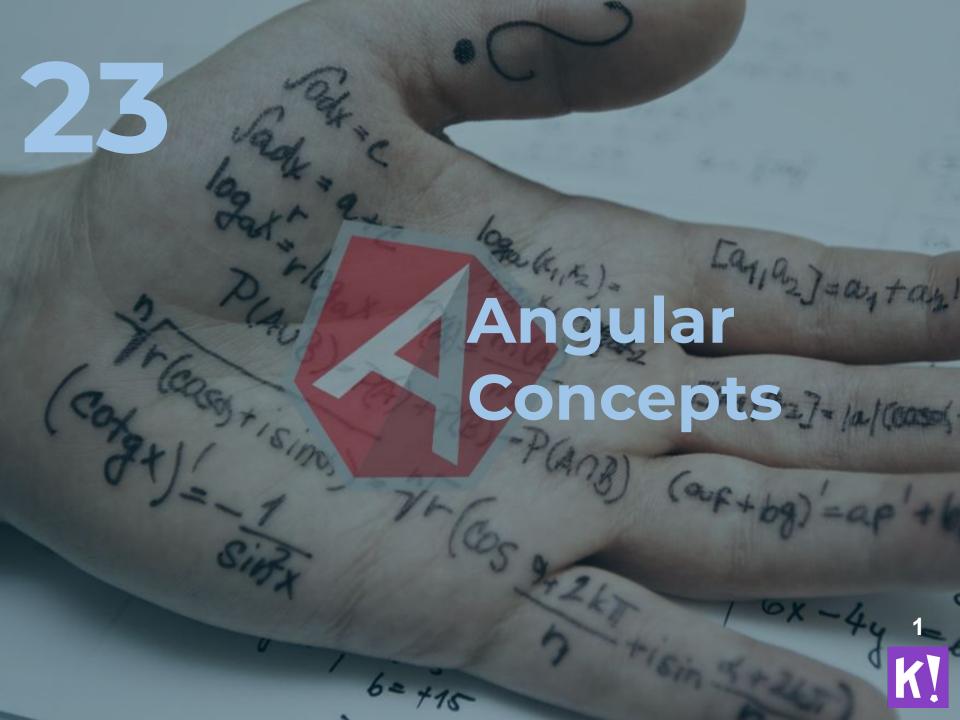
Approche modulaire











ANGULAR CONCEPTS

COMPONENT



Template



Component Class



Component Test



Component style

ANGULAR CONCEPTS

COMPONENT

```
import { Component, OnInit } from "@angular/core";
@Component({
  selector: "app-home",
  templateUrl: "./home.component.html",
  styleUrls: ["./home.component.css"]
export class HomeComponent implements OnInit
  public title: string;
  public description: string;
constructor() (
    this.title = "My app";
    this.description = "My first app";
  ngOnInit() { }
```

```
<h2>{{title}}</h2>
<div class="description">
  {{description}}
</div>
:host {
 background-color: blue;
 color: white;
 font-weight: bold;
.description {
 color: lightgray;
```

ANGULAR CONCEPTS

COMPONENT Utilisation

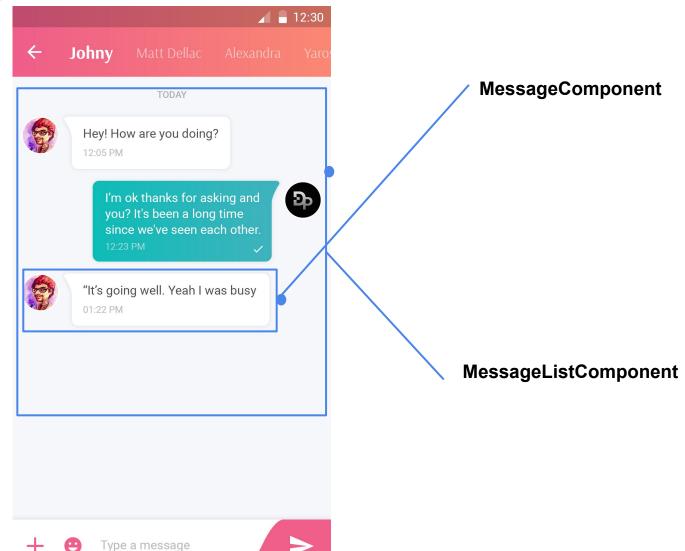
```
<header>
    <h1>MyApp</h1>
</header>
<body>
    <app-home></app-home>
    <button>Next page</button>
</body>
```

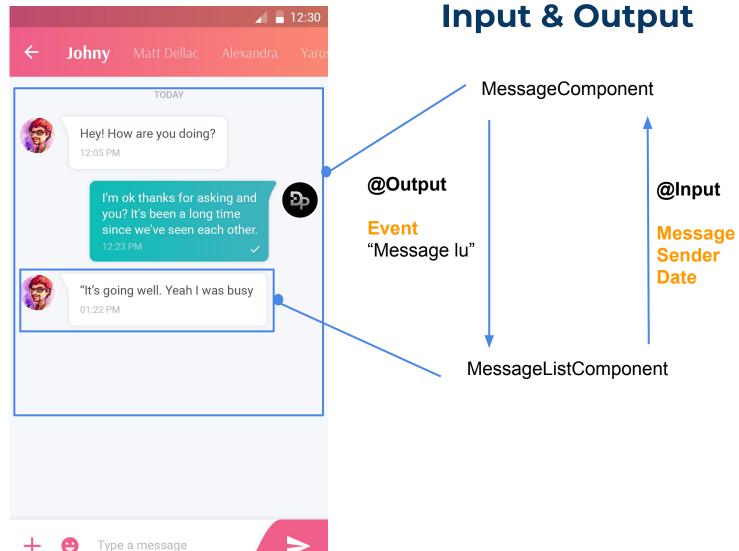
ANGULAR CONCEPTS

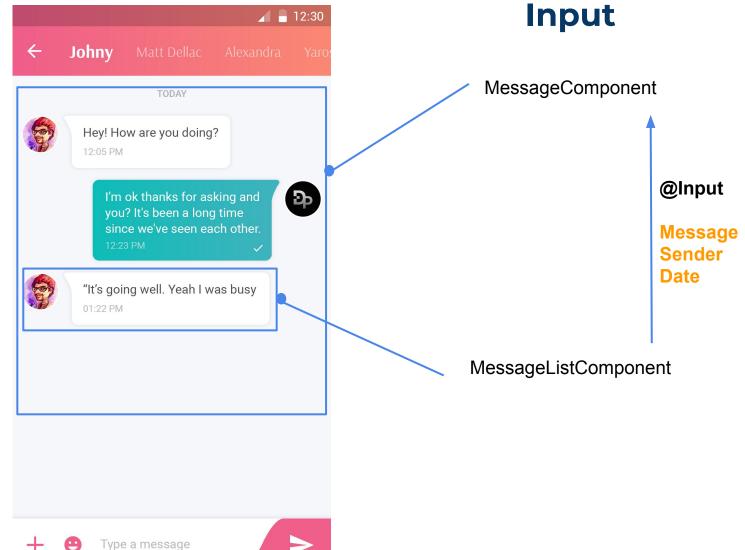
COMPONENT

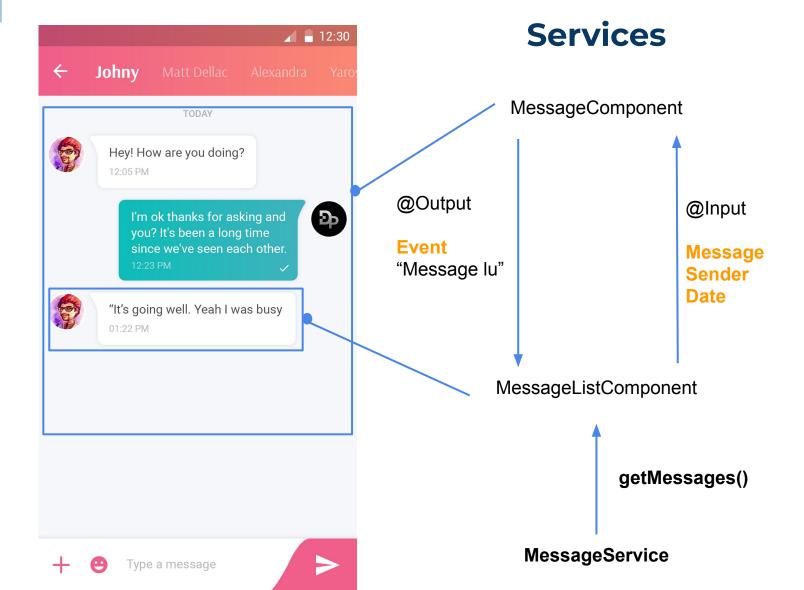
```
import ( Component, OnInit ) from "@angular/core";
@Component({
  selector: "app-home",
  templateUrl: "./home.component.html",
  styleUrls: ["./home.component.css"]
export class HomeComponent implements OnInit {
 public title: string;
 public description: string;
 constructor() {
    this.title = "My app";
    this.description = "My first app";
 ngOnInit() { }
```

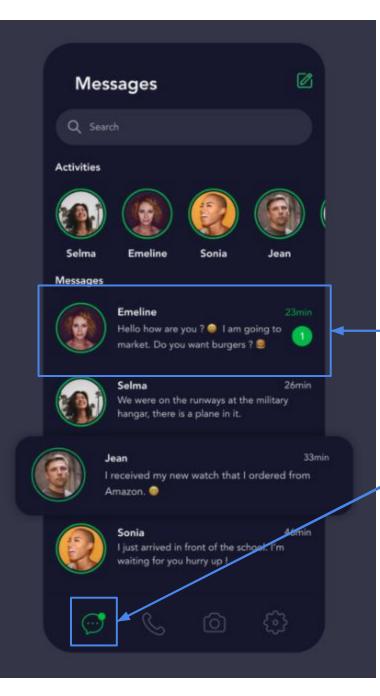
```
<h2>{{title}}</h2>
<div class="description">
  {{description}}
</div>
:host {
 background-color: blue;
h2
 color: white;
  font-weight: bold;
.description {
 color: lightgray;
```











Services

MessageService

ANGULAR CONCEPTS

SERVICE

- _ Contient un ensemble de fonctions partagées par plusieurs composants
- _ Les fonctionnalités du service doivent être uniques
- _ Tous les composants peuvent utiliser un service



```
@Injectable()
export class LoginService {
   public verifyCredential(user) { }
   public updatePassword(user, password) { }
}
```







Layer

Message

Message

Update

the data

Get data

Message

Messages

Icon Icon
Menu

Service

Layer

MessageService

```
Messages: [ {...}, {...}, {...}
```

UserService

currentUser: {...}

36ANGULAR CONCEPTS

DIRECTIVE & PIPE

_ Directives:

- Ajoute un comportement à un élément du DOM

_ Pipe:

- Reçoit en entrée des données

20/02/18

Les transforme



Les retourne

Mardi 20 Février 2018

3 ANGULAR CONCEPTS

DIRECTIVES NATIVES

_ nglf, ngFor, ngSwitch, ngClass, ngModel ...

```
public messageList: string[];

constructor() {
   this.title = "Chat";
   this.messageList = ["hello!", "how are you?"];
}
```

public title: string;

Chat

Do something ...

- hello!
- How are you?



```
<div *ngIf="title === 'Chat'">
  Do something ...
</div>
<div *ngFor="let message of messageList">
  {{message}}
</div>
```



39 JS: callbacks

```
function foo(finalCallback) {
  request.get(url1, function(err1, res1) {
    if (err1) { return finalCallback(err1); }
    request.post(url2, function(err2, res2) {
      if (err2) { return finalCallback(err2); }
      request.put(url3, function(err3, res3) {
        if (err3) { return finalCallback(err3): }
        request.del(url4, function(err4, res4) {
          // let's stop here
          if (err4) { return finalCallback(err4); }
          finalCallback(null, "whew all done");
       })
      })
    })
  })
// use that function somewhere
foo(function(err, message) {
  if (err) {
    return console.log("error!", err);
  }
  console.log("success!", message);
});
```

40 JS: promesses

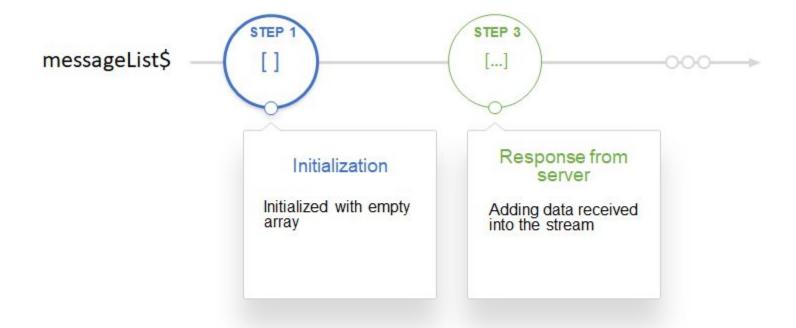
```
function foo() {
  return request.getAsync(url1)
  .then(function(res1) {
    return request.postAsync(url2);
  }).then(function(res2) {
    return request.putAsync(url3);
  }).then(function(res3) {
     return request.delAsync(url4);
  }).then(function(res4) {
     return "whew all done";
 });
}
// use that function somewhere
foo().then(function(message) {
  console.log("success!", message);
}).catch(function(err) {
  console.log("error!", err);
});
```

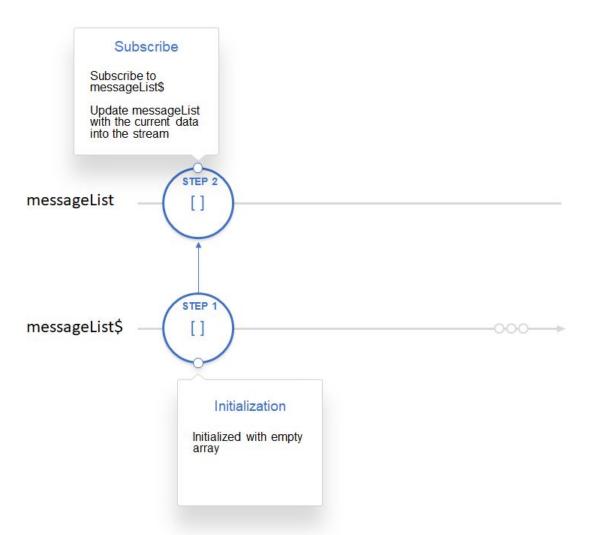
JS: async/await

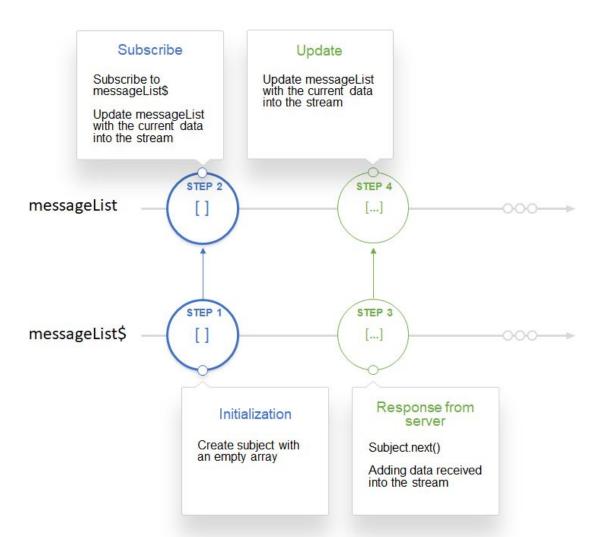
```
async function foo() {
  var res1 = await request.getAsync(url1);
  var res2 = await request.getAsync(url2);
  var res3 = await request.getAsync(url3);
  var res4 = await request.getAsync(url4);
  return "whew all done";
}

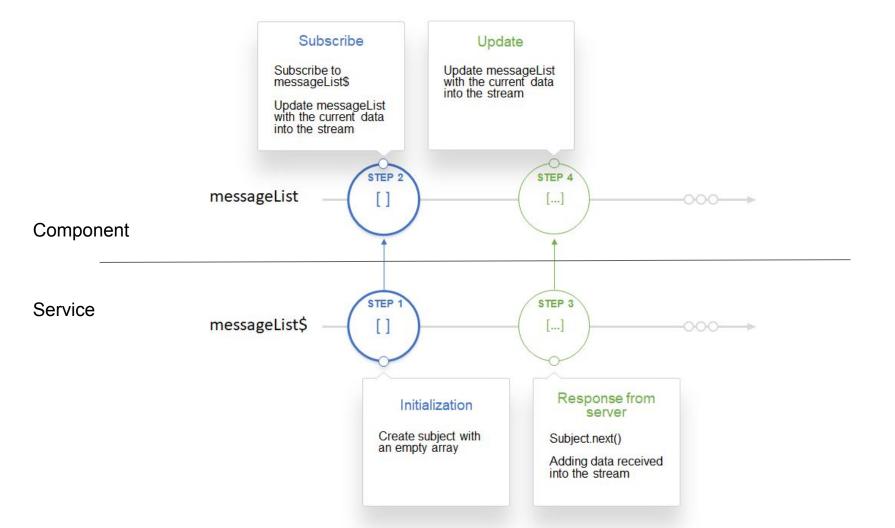
// use that function somewhere
foo().then(function(message) {
  console.log("success!", message);
}).catch(function(err) {
   console.log("error!", err);
});
```

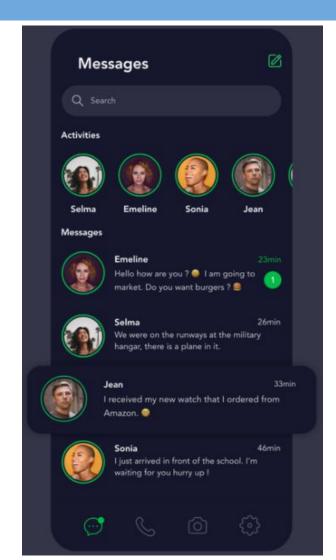


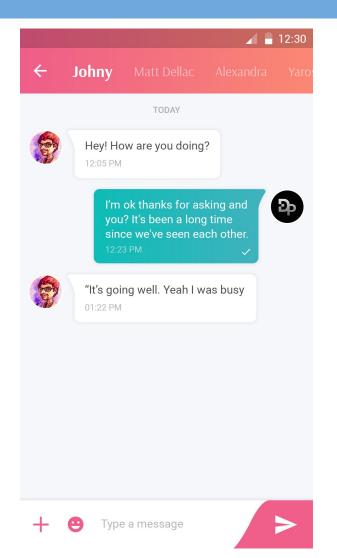


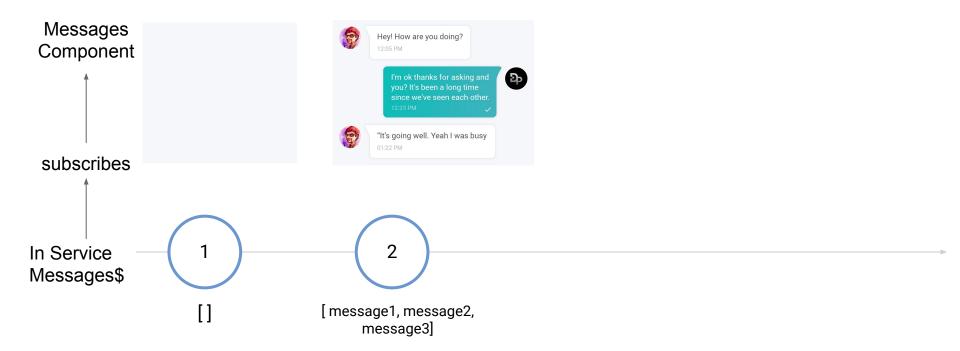


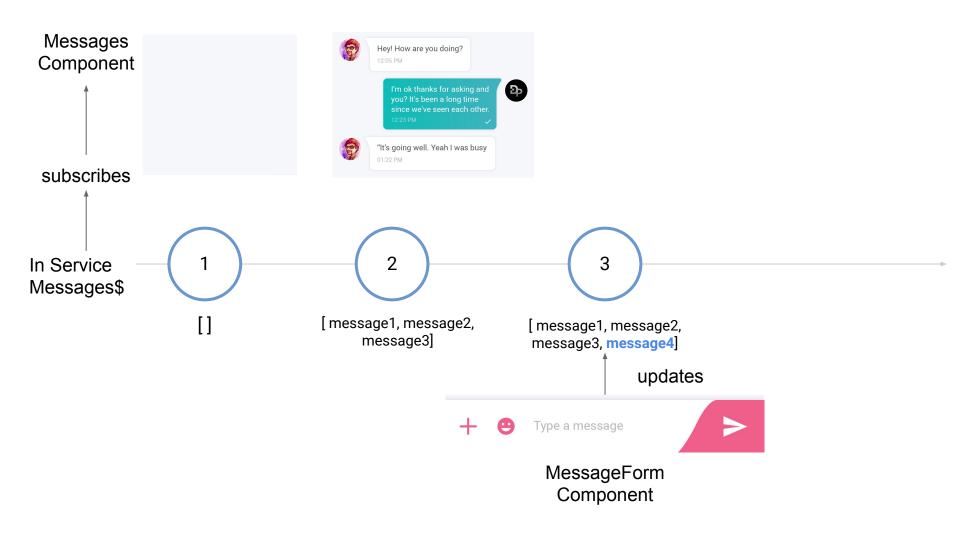


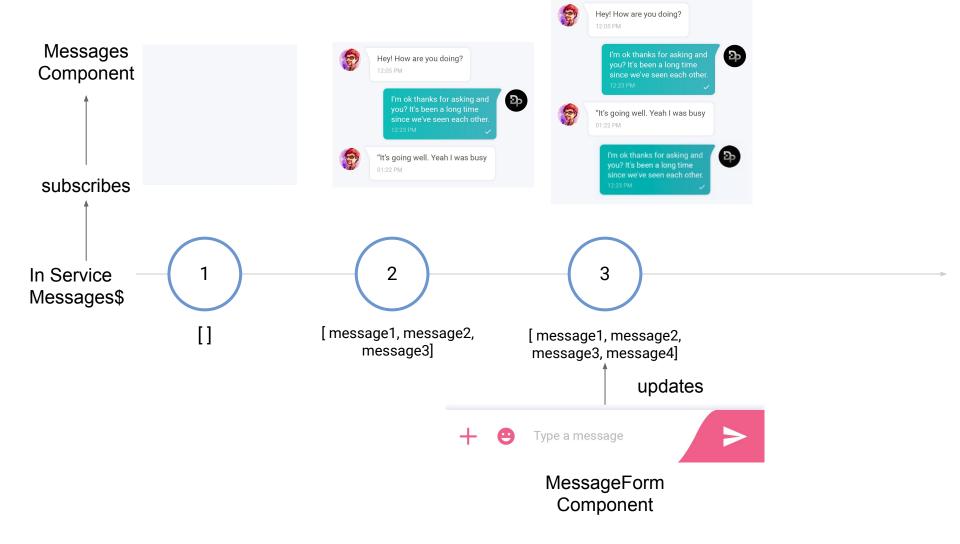


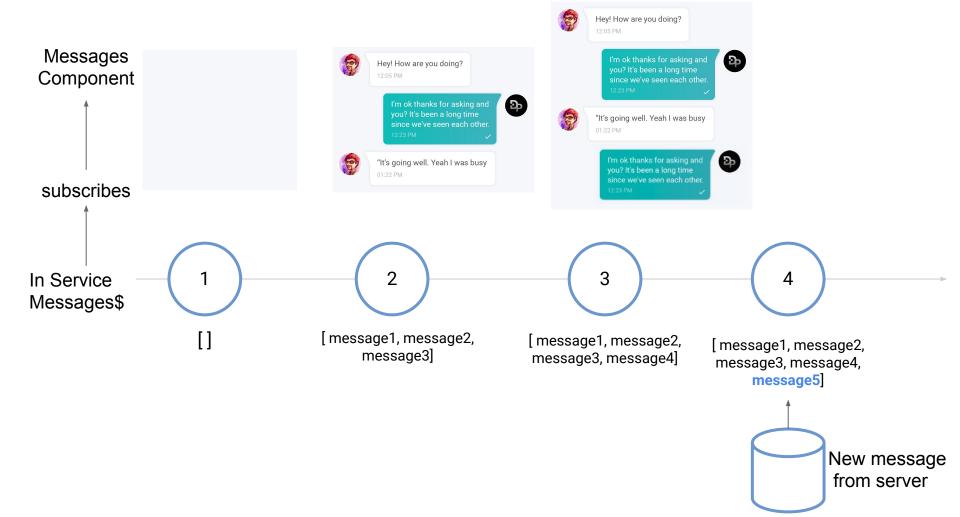


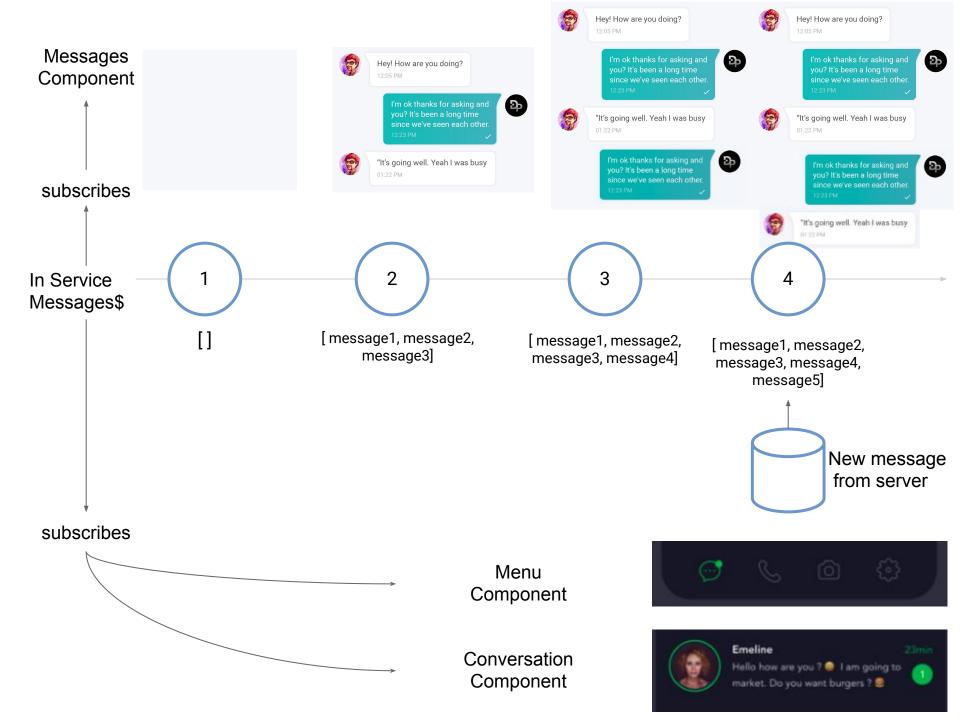












Service

Component



