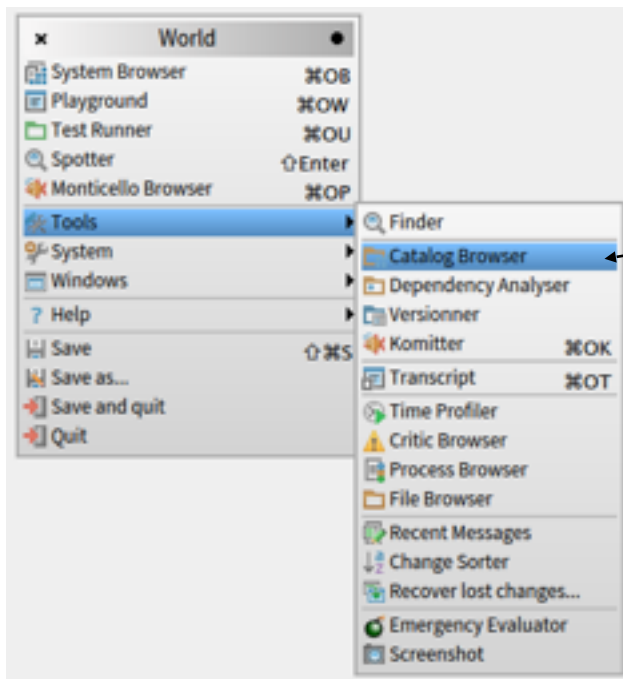




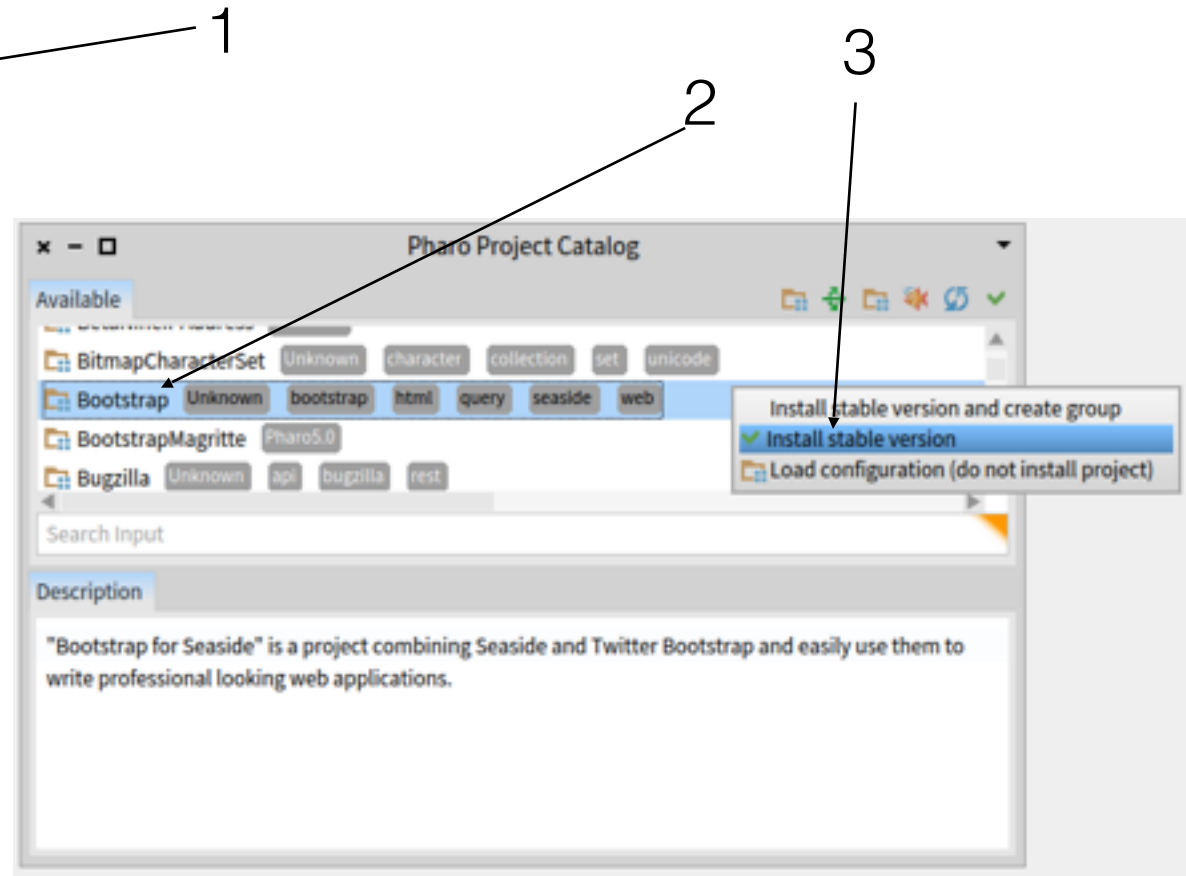
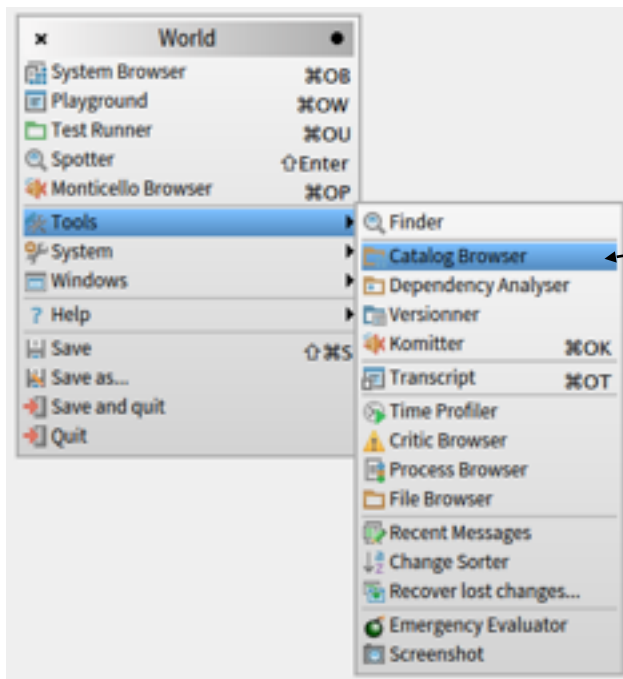
- Framework (y mas) para construir aplicaciones web en Smalltalk
- HTML programático
- Una aplicación consiste de un conjunto de componentes conectados y reutilizables
  - Navegación: se basa en delegación entre componentes
  - Reuso: pueden componerse componentes
- Manejo de sesión “transparente” en el servidor

# Instalar Seaside

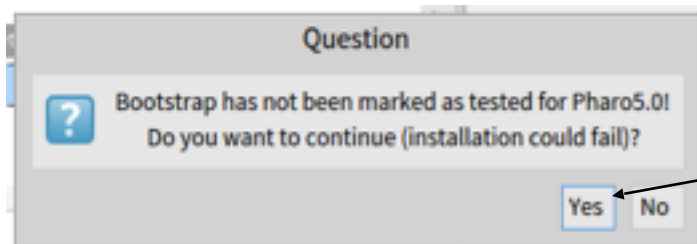
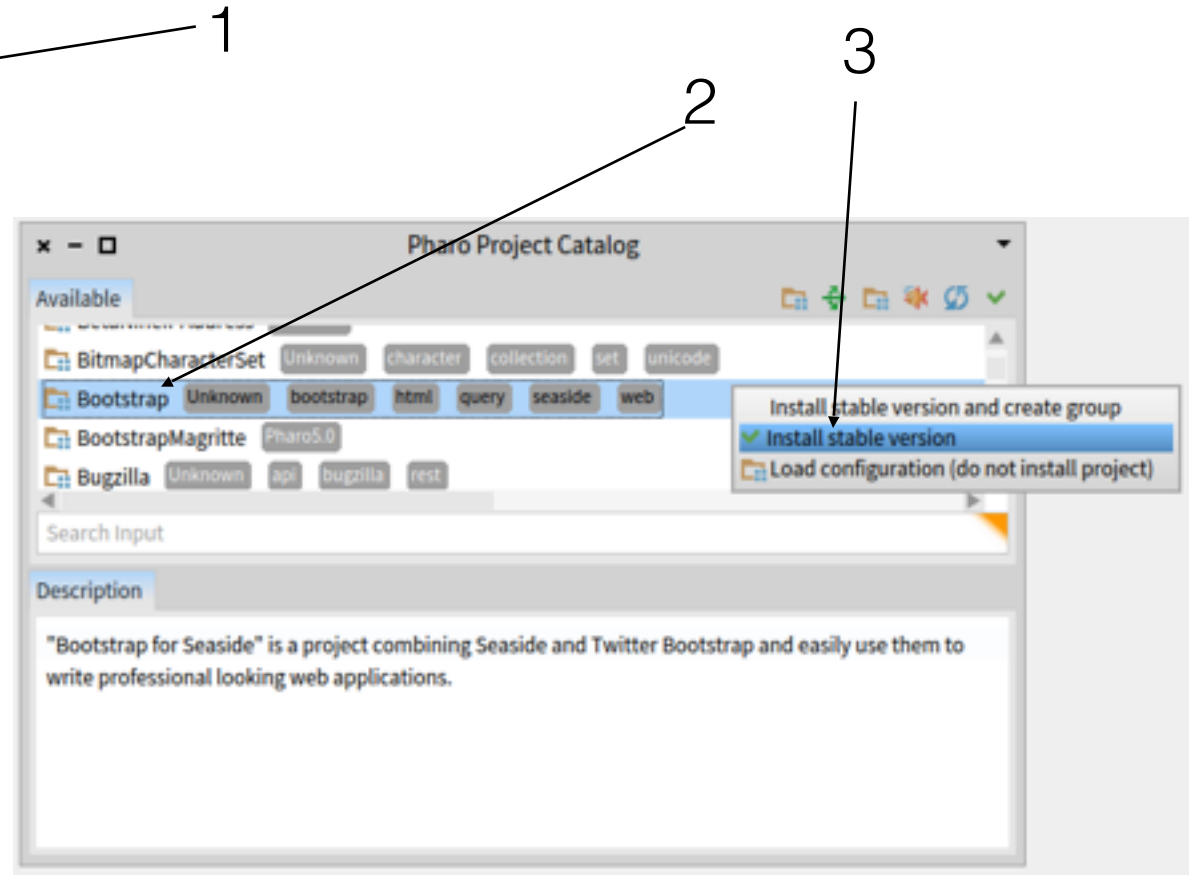
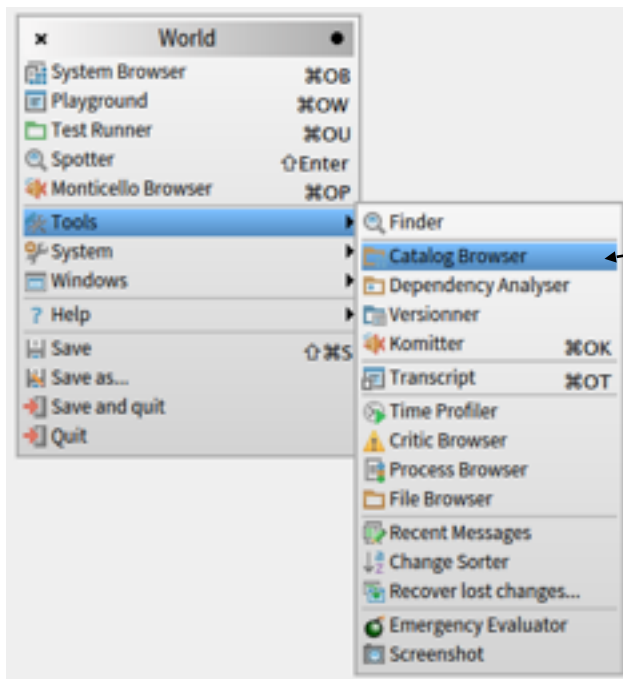
# Instalar Seaside



# Instalar Seaside



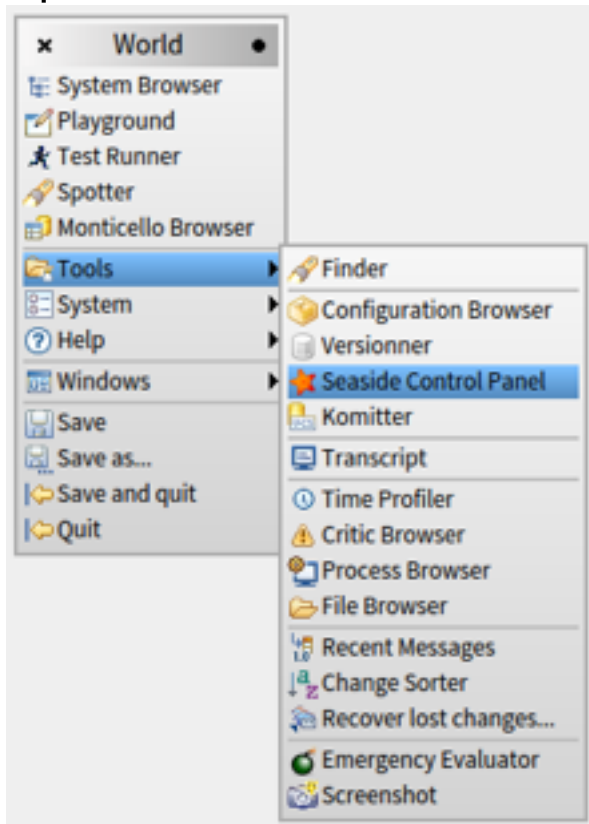
# Instalar Seaside



# Configurar un servidor

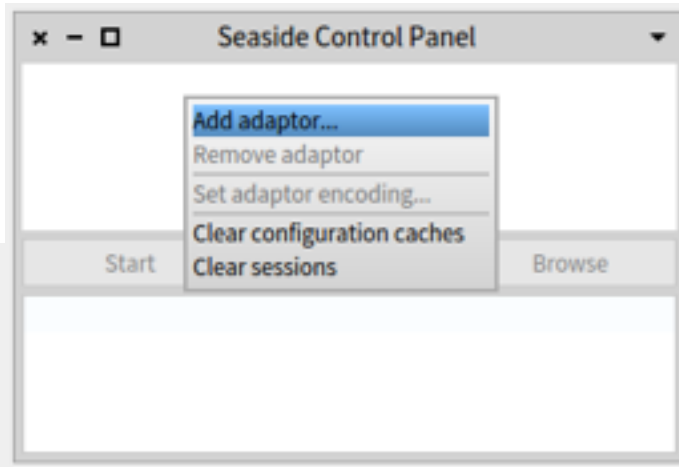
# Configurar un servidor

1

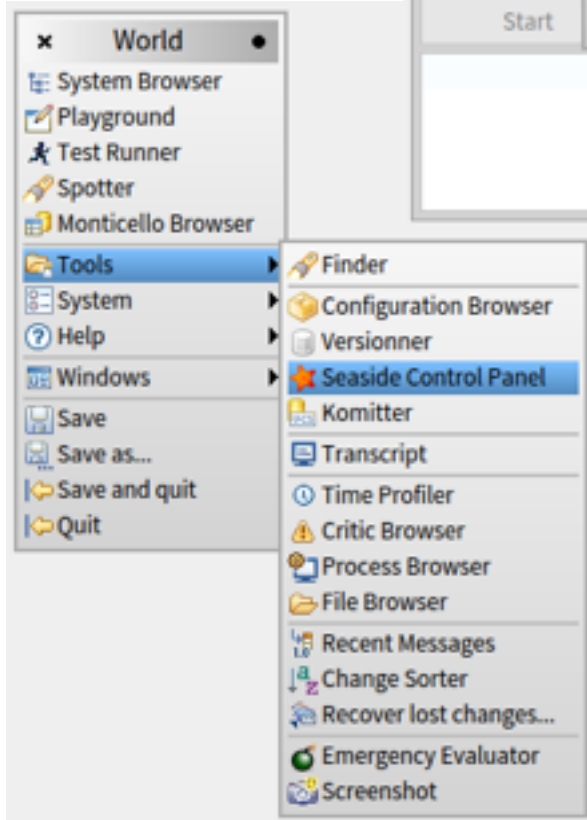


# Configurar un servidor

2

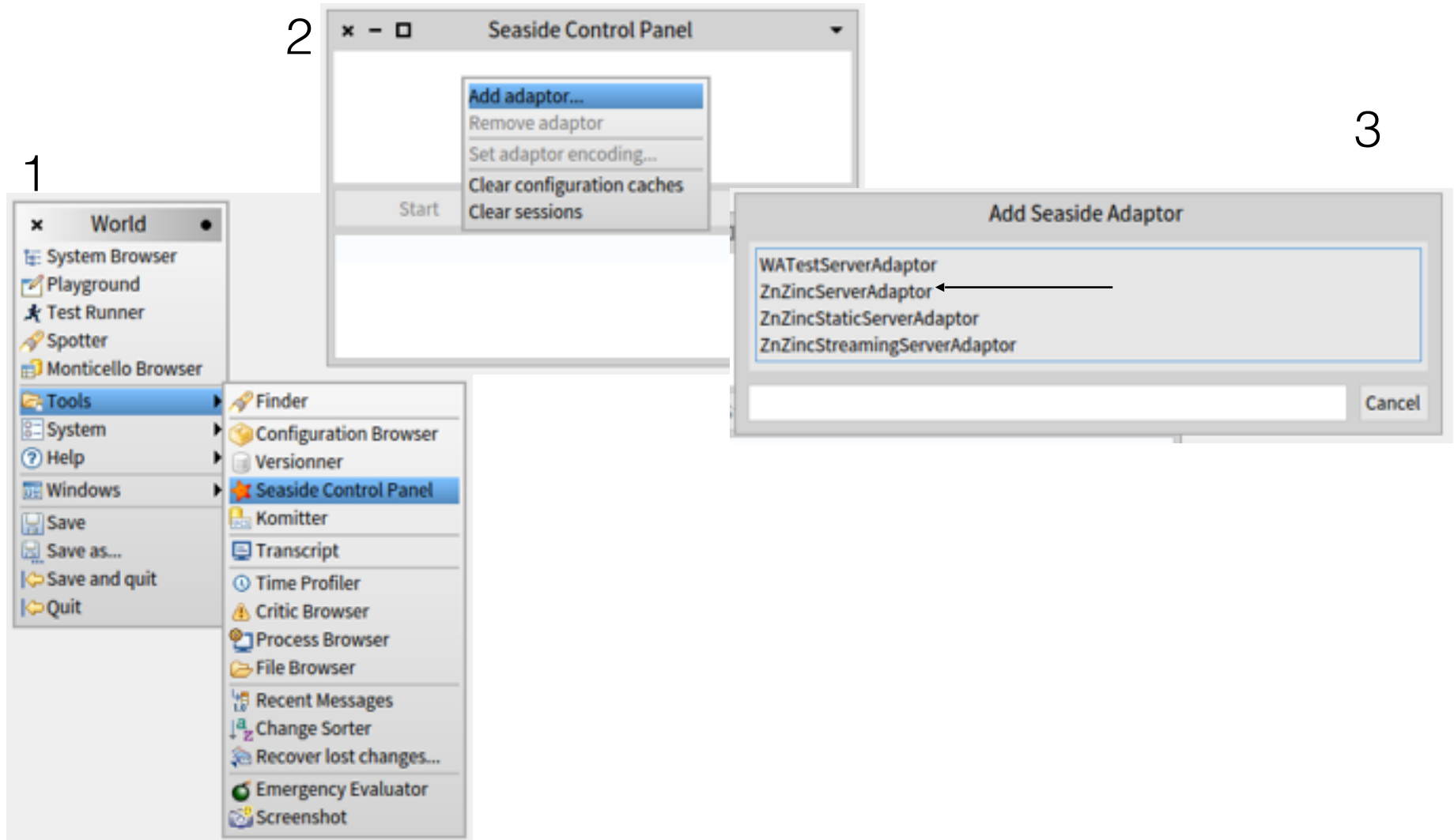


1

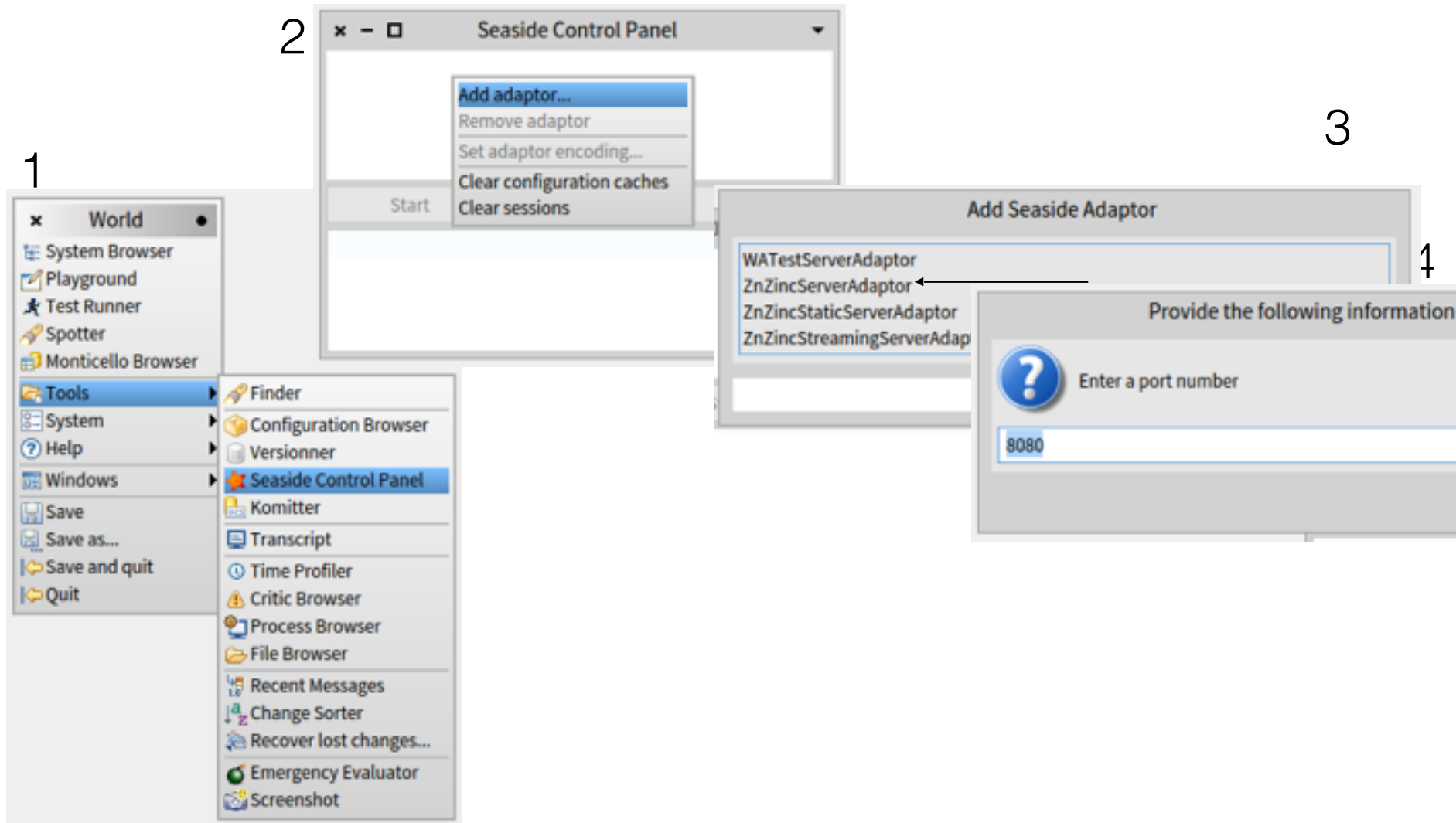




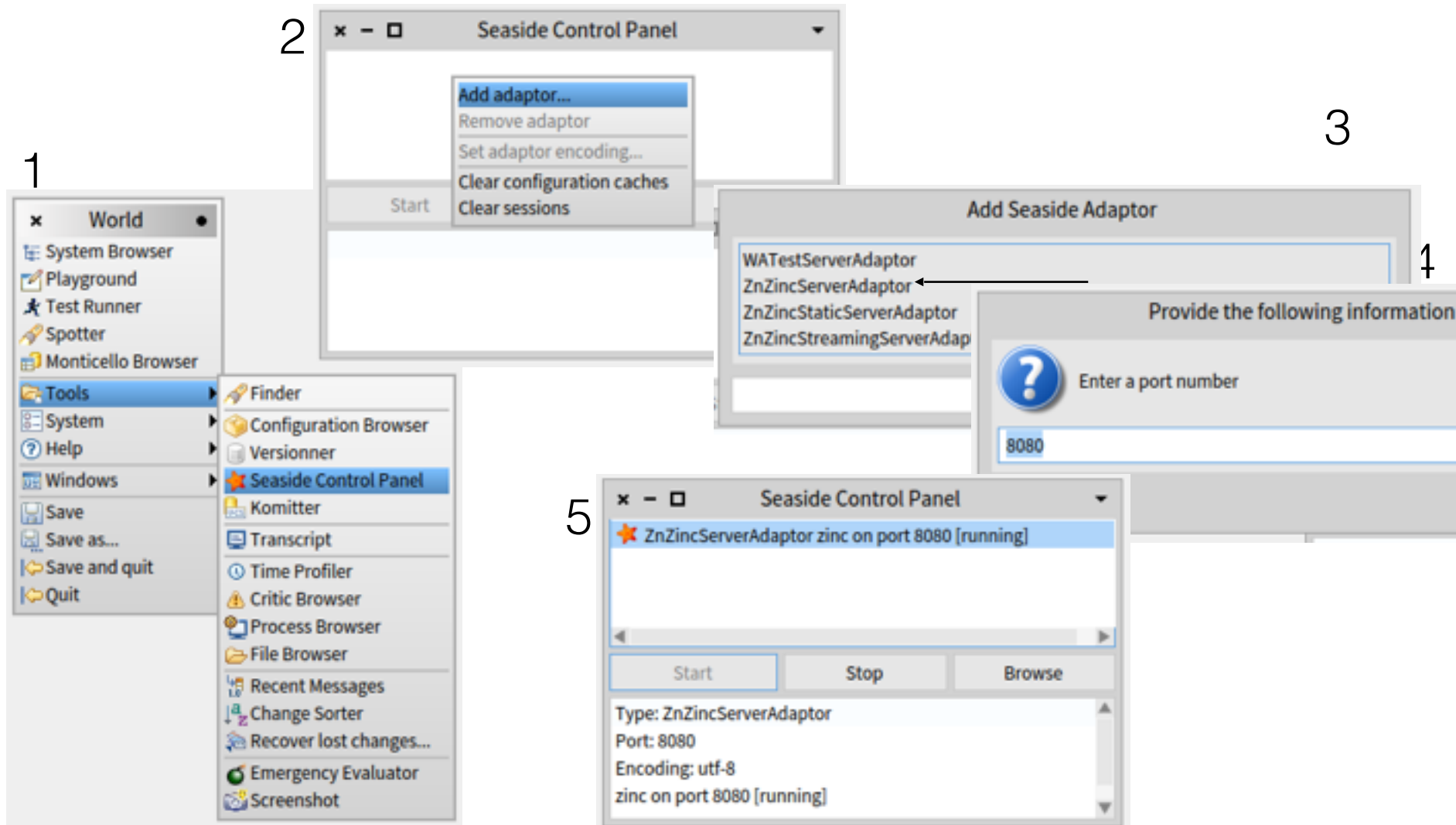
# Configurar un servidor



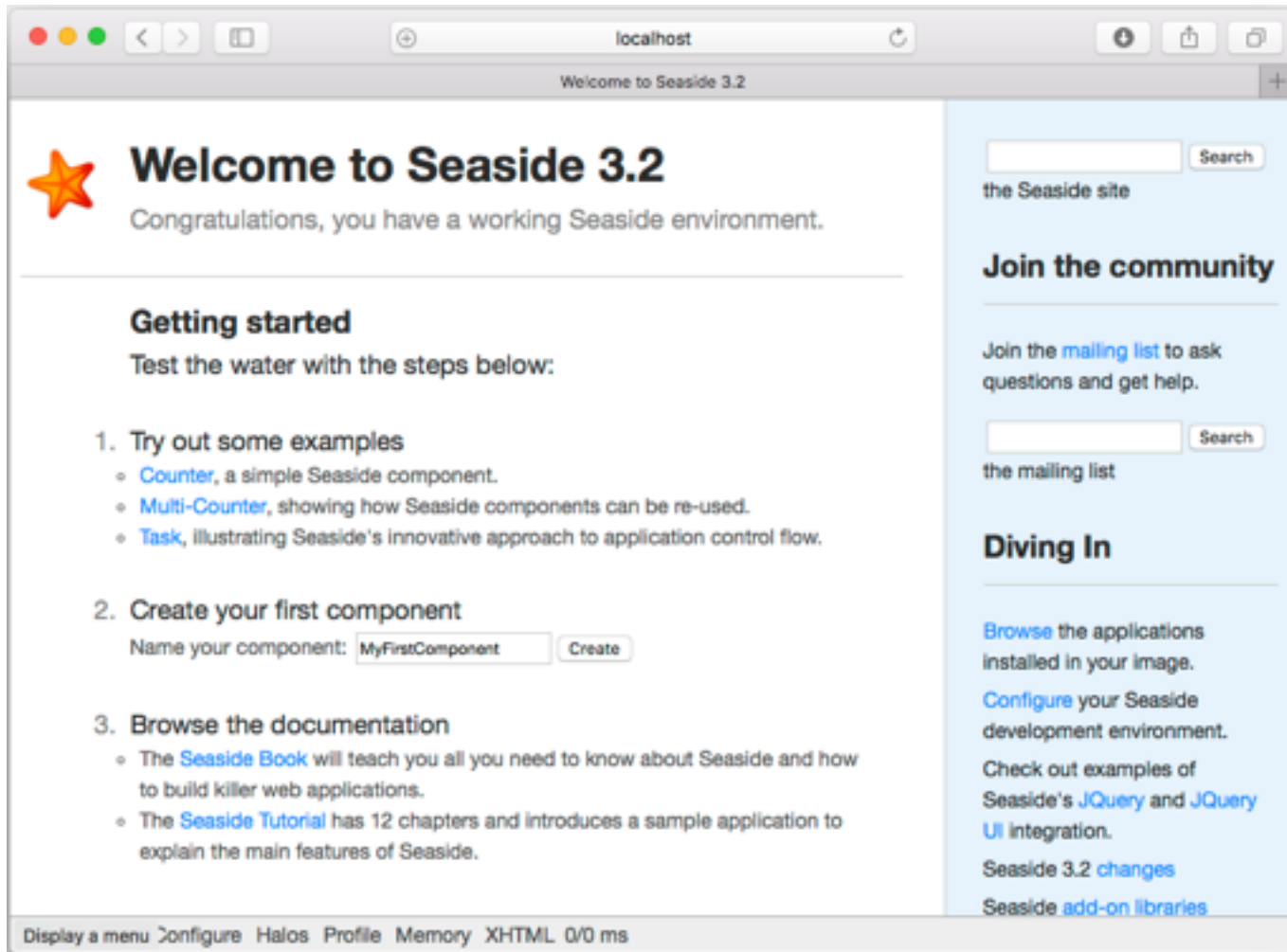
# Configurar un servidor



# Configurar un servidor



# Comprobar que funciona



A screenshot of a web browser window displaying the "Welcome to Seaside 3.2" page. The browser's address bar shows "localhost". The page has a light blue header with a star icon and the title "Welcome to Seaside 3.2". Below the title, it says "Congratulations, you have a working Seaside environment." The main content area is divided into two columns. The left column, titled "Getting started", lists three steps: 1. Try out some examples (with sub-points for Counter, Multi-Counter, and Task), 2. Create your first component (with a form to name the component "MyFirstComponent" and a "Create" button), and 3. Browse the documentation (with sub-points for the Seaside Book and Seaside Tutorial). The right column, titled "Join the community", includes a search bar for "the Seaside site", a section for "Join the community" with a search bar for "the mailing list", and a "Diving In" section with links to browse applications, configure the environment, and check out examples of Seaside's JQuery and JQuery UI integration. At the bottom, there is a status bar with links like "Display a menu", "Configure", "Halos", "Profile", "Memory", "XHTML", and "0/0 ms".

localhost

Welcome to Seaside 3.2

## Welcome to Seaside 3.2

Congratulations, you have a working Seaside environment.

### Getting started

Test the water with the steps below:

1. Try out some examples
  - [Counter](#), a simple Seaside component.
  - [Multi-Counter](#), showing how Seaside components can be re-used.
  - [Task](#), illustrating Seaside's innovative approach to application control flow.
2. Create your first component

Name your component:
3. Browse the documentation
  - The [Seaside Book](#) will teach you all you need to know about Seaside and how to build killer web applications.
  - The [Seaside Tutorial](#) has 12 chapters and introduces a sample application to explain the main features of Seaside.

### Join the community

Join the [mailing list](#) to ask questions and get help.

the mailing list

### Diving In

[Browse](#) the applications installed in your image.

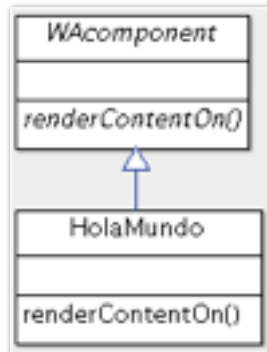
[Configure](#) your Seaside development environment.

Check out examples of Seaside's [JQuery](#) and [JQuery UI](#) integration.

Seaside 3.2 [changes](#)

Seaside [add-on libraries](#)

Display a menu Configure Halos Profile Memory XHTML 0/0 ms



```

renderContentOn: htmlCanvas
  htmlCanvas heading
    level: 1;
    with: 'Hola Mundo!'.
  htmlCanvas image
    resourceUrl: 'http://www.seaside.st/styles/logo-plain.png';
    altText: 'Logo de seaside'
  
```

```

WAAdmin register: self asApplicationAt: 'HolaMundo'
  
```

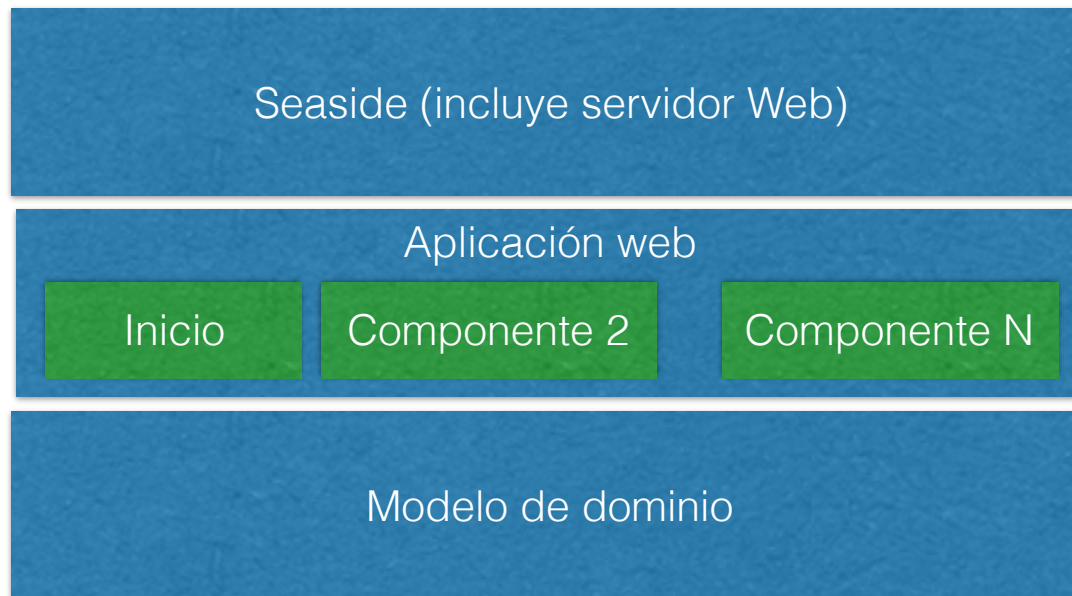
Seaside genera el HTML

```

<html>
  <head>
    <title>Seaside</title>
  </head>
  <body>
    <h1>Hola Mundo!</h1>
    
  </body>
</html>
  
```



# Esqueleto de una aplicación Web de Seaside





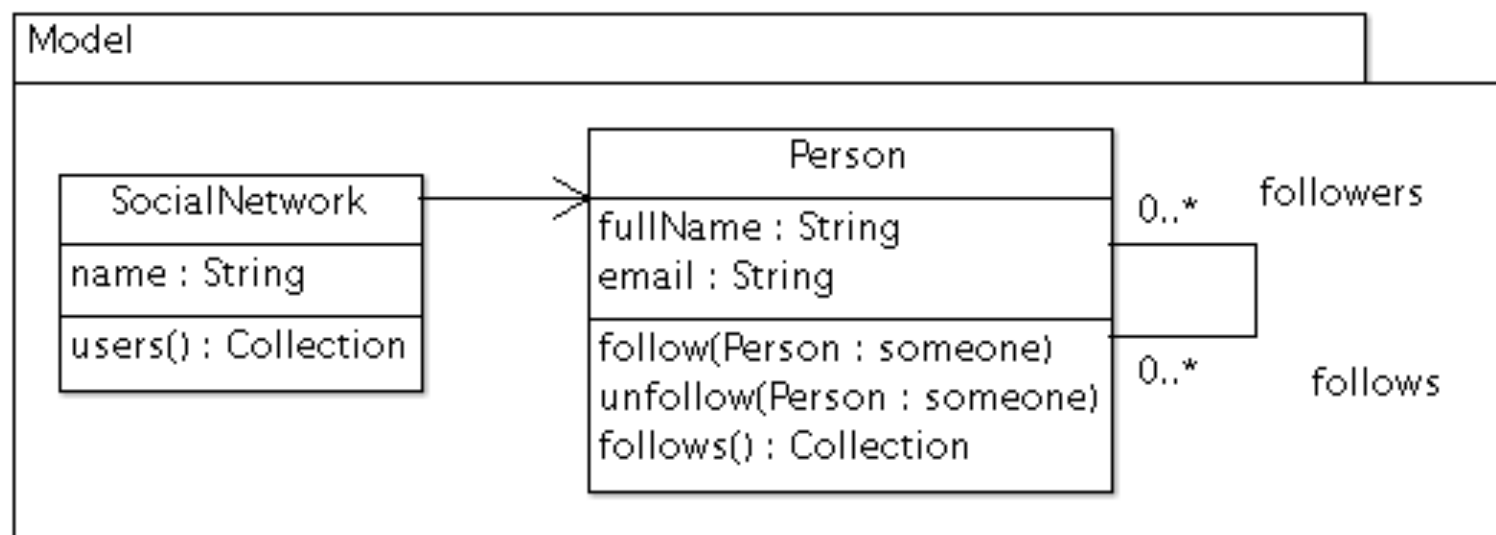
- El servidor escucha pedidos de los navegadores web
- Por cada primer pedido, crea una sesión que recordará el estado de la interacción de ese usuario
- Los pedidos son derivados a componentes (objetos) que se encargan de construir las páginas que ve el usuario

# Modelo vs. UI

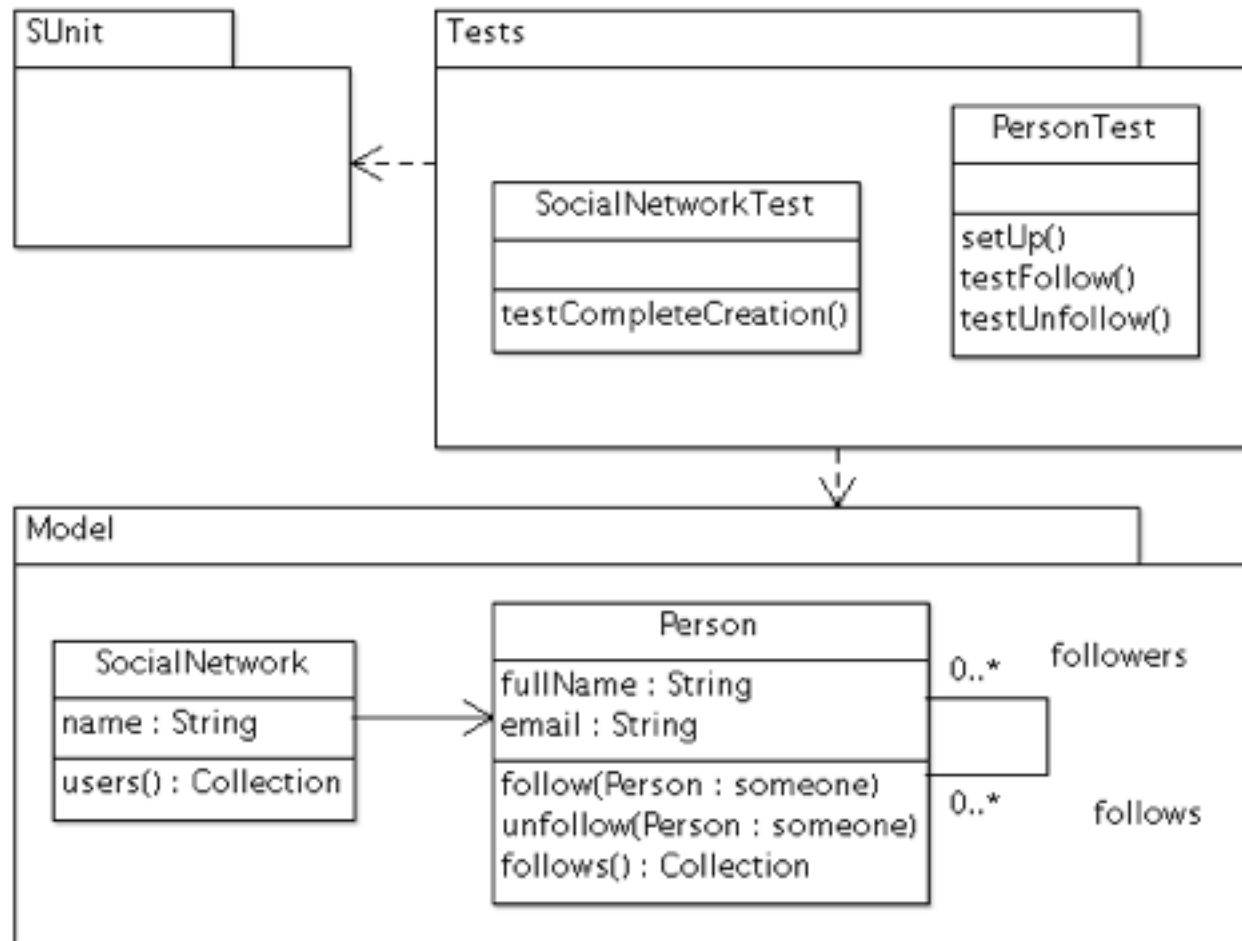


- Es crítico separar bien el comportamiento genérico de dominio del comportamiento específico de la interfaz de usuario (UI)
  - Así testamos el modelo antes de construir la interfaz (Unit testing– Sunit)
  - Nos permite tener múltiples interfaces de usuario para una misma aplicación
  - La interfaz puede evolucionar por separado sin ensuciar el modelo





# Tests de unidad



# Aplicación Seaside

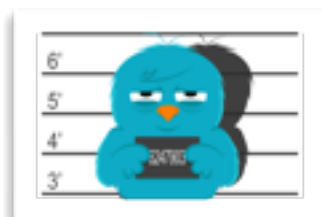
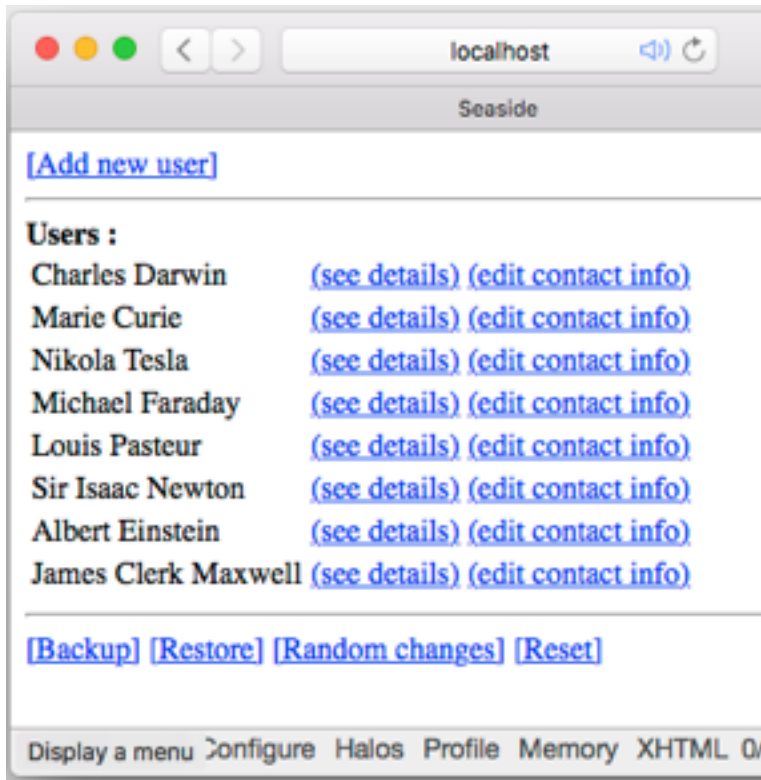


- Las “páginas” de mi aplicación web son componentes (y pueden tener componentes hijos)
- Unas páginas llaman a otras (navegación)
- Conocen a objetos de dominio (los muestran y modifican)

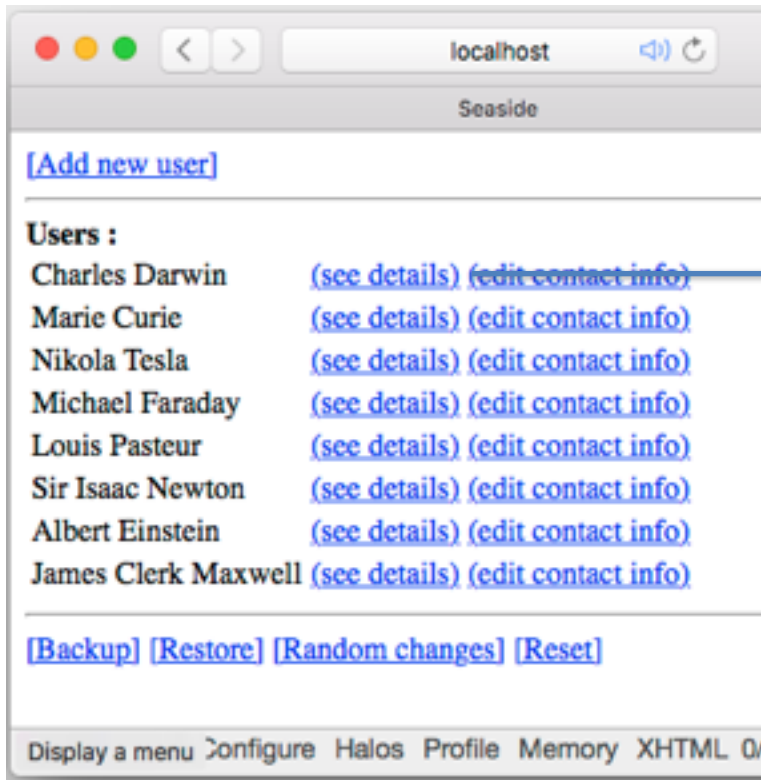
# Ejemplo conductor: Explorador de red social



# Ejemplo conductor: Explorador de red social



# Ejemplo conductor: Explorador de red social



# Ejemplo conductor: Explorador de red social

The image displays two browser windows from a social network explorer application running on localhost. The left window shows a list of users, and the right window shows the detailed profile of Charles Darwin. Blue arrows indicate the navigation flow from the user list to the profile page.

**Left Window (Users List):**

- [\[Add new user\]](#)
- Users :**
  - Charles Darwin ([see details](#)) ([edit contact info](#))
  - Marie Curie ([see details](#)) ([edit contact info](#))
  - Nikola Tesla ([see details](#)) ([edit contact info](#))
  - Michael Faraday ([see details](#)) ([edit contact info](#))
  - Louis Pasteur ([see details](#)) ([edit contact info](#))
  - Sir Isaac Newton ([see details](#)) ([edit contact info](#))
  - Albert Einstein ([see details](#)) ([edit contact info](#))
  - James Clerk Maxwell ([see details](#)) ([edit contact info](#))
- [\[Backup\]](#) [\[Restore\]](#) [\[Random changes\]](#) [\[Reset\]](#)
- Display a menu Configure Halos Profile Memory XHTML 0/

**Right Window (Charles Darwin Profile):**

- [Home](#)
- Charles Darwin**
- Email:** nomail@science.com
- Follows (3) :**
  - James Clerk Maxwell ([see details](#)) ([unfollow](#))
  - Sir Isaac Newton ([see details](#)) ([unfollow](#))
  - Nikola Tesla ([see details](#)) ([unfollow](#))
- Followers (1) :**
  - Nikola Tesla ([see details](#)) ([unfollow](#))
- Everyone else (4) :**
  - Michael Faraday ([see details](#)) ([follow](#))
  - Marie Curie ([see details](#)) ([follow](#))
  - Louis Pasteur ([see details](#)) ([follow](#))
  - Albert Einstein ([see details](#)) ([follow](#))
- Display a menu Configure Halos Profile Memory XHTML 0/

**Bottom Center:**

A small cartoon penguin character is positioned next to a height scale. The scale has markings for 3', 4', 5', and 6'. The penguin is standing at the 4' mark.

# Ejemplo conductor: Explorador de red social

The diagram illustrates a social network explorer interface with three main components:

- User List Window (Top Left):** Displays a list of users with links to view details or edit contact info. A blue arrow points from the 'Home' link in the profile window to this window.
- User Profile Window (Top Right):** Shows the profile of Charles Darwin, including his email (nomail@science.com) and lists of users he follows and is followed by. A blue arrow points from the 'Add new user' link in the user list window to this window.
- User Creation Form Window (Bottom Left):** Allows creating a new user by entering a full name and email address. A blue arrow points from the 'Add new user' link in the user list window to this window.

**User List Window Content:**

[Add new user]

**Users :**

Name	(see details)	(edit contact info)
Charles Darwin	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Marie Curie	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Nikola Tesla	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Michael Faraday	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Louis Pasteur	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Sir Isaac Newton	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Albert Einstein	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
James Clerk Maxwell	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>

[Backup] [Restore] [Random changes] [Reset]

Display a menu Configure Halos Profile Memory XHTML 0/

**User Profile Window Content:**

[Home](#)

## Charles Darwin

**Email:** nomail@science.com

**Follows (3) :**

Name	(see details)	(unfollow)
James Clerk Maxwell	<a href="#">(see details)</a>	<a href="#">(unfollow)</a>
Sir Isaac Newton	<a href="#">(see details)</a>	<a href="#">(unfollow)</a>
Nikola Tesla	<a href="#">(see details)</a>	<a href="#">(unfollow)</a>

**Followers (1) :**

Name	(see details)	(unfollow)
Nikola Tesla	<a href="#">(see details)</a>	<a href="#">(unfollow)</a>

**Everyone else (4) :**

Name	(see details)	(follow)
Michael Faraday	<a href="#">(see details)</a>	<a href="#">(follow)</a>
Marie Curie	<a href="#">(see details)</a>	<a href="#">(follow)</a>
Louis Pasteur	<a href="#">(see details)</a>	<a href="#">(follow)</a>
Albert Einstein	<a href="#">(see details)</a>	<a href="#">(follow)</a>

Display a menu Configure Halos Profile Memory XHTML 0/

**User Creation Form Window Content:**

Full name:

Email address:

**Avatar:** A small cartoon penguin character is shown in a separate window at the bottom center.



# Ejemplo conductor: Explorador de red social

The diagram illustrates a social network explorer interface with three windows and a character.

**Top Left Window:** Displays a list of users with links to view details and edit contact info.

Users :	(see details)	(edit contact info)
Charles Darwin	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Marie Curie	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Nikola Tesla	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Michael Faraday	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Louis Pasteur	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Sir Isaac Newton	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Albert Einstein	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
James Clerk Maxwell	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>

Buttons: [\[Add new user\]](#), [\[Backup\]](#), [\[Restore\]](#), [\[Random changes\]](#), [\[Reset\]](#)

Footer: Display a menu Configure Halos Profile Memory XHTML 0/

**Top Right Window:** Displays the profile of Charles Darwin.

**Home**

**Charles Darwin**

**Email:** nomail@science.com

**Follows (3) :**

- James Clerk Maxwell [\(see details\)](#) [\(unfollow\)](#)
- Sir Isaac Newton [\(see details\)](#) [\(unfollow\)](#)
- Nikola Tesla [\(see details\)](#) [\(unfollow\)](#)

**Followers (1) :**

- Nikola Tesla [\(see details\)](#) [\(unfollow\)](#)

**Everyone else (4) :**

- Michael Faraday [\(see details\)](#) [\(follow\)](#)
- Marie Curie [\(see details\)](#) [\(follow\)](#)
- Louis Pasteur [\(see details\)](#) [\(follow\)](#)
- Albert Einstein [\(see details\)](#) [\(follow\)](#)

Footer: Display a menu Configure Halos Profile Memory XHTML 0/

**Bottom Left Window:** Displays a form for adding a new user.

**Full name:**

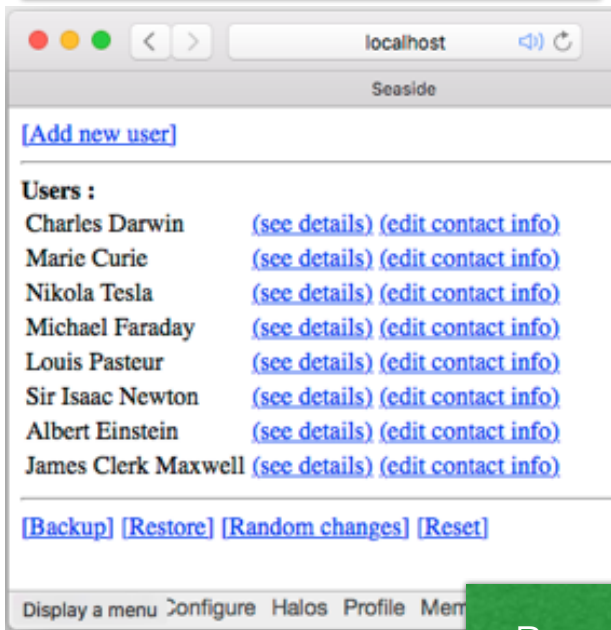
**Email address:**

**Character:** A blue cartoon bird-like character standing next to a height scale.

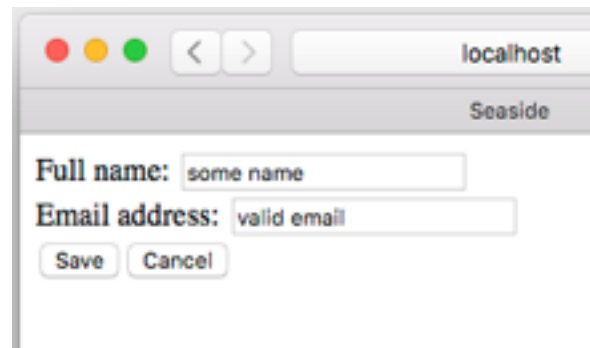
Height scale: 6', 5', 4', 3'

# Componentes del ejemplo conductor

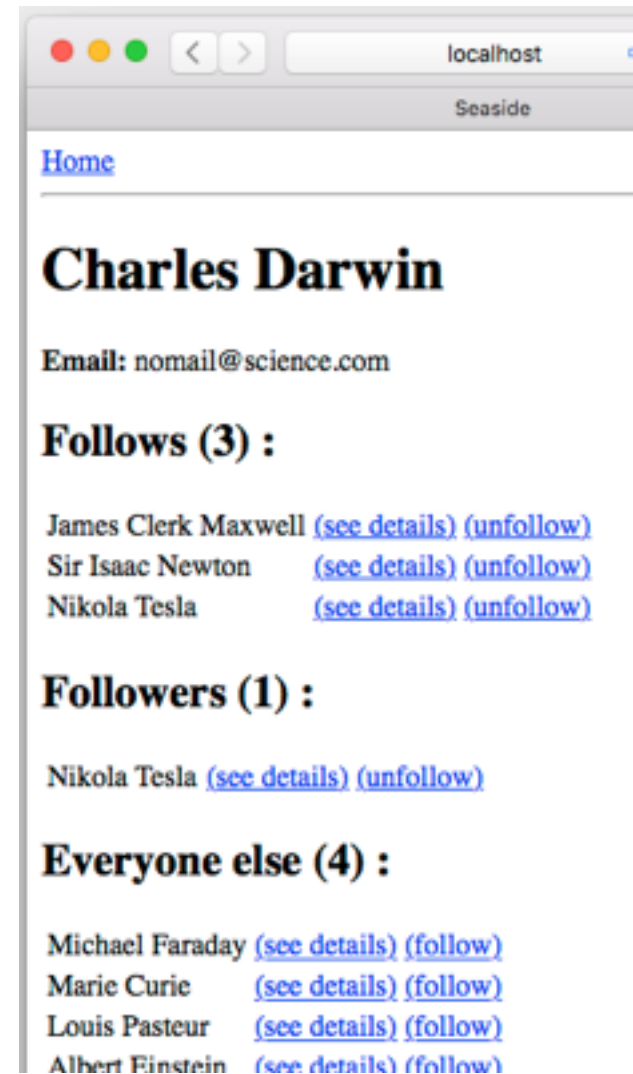
SocialNetworkComponent  
(inicio)



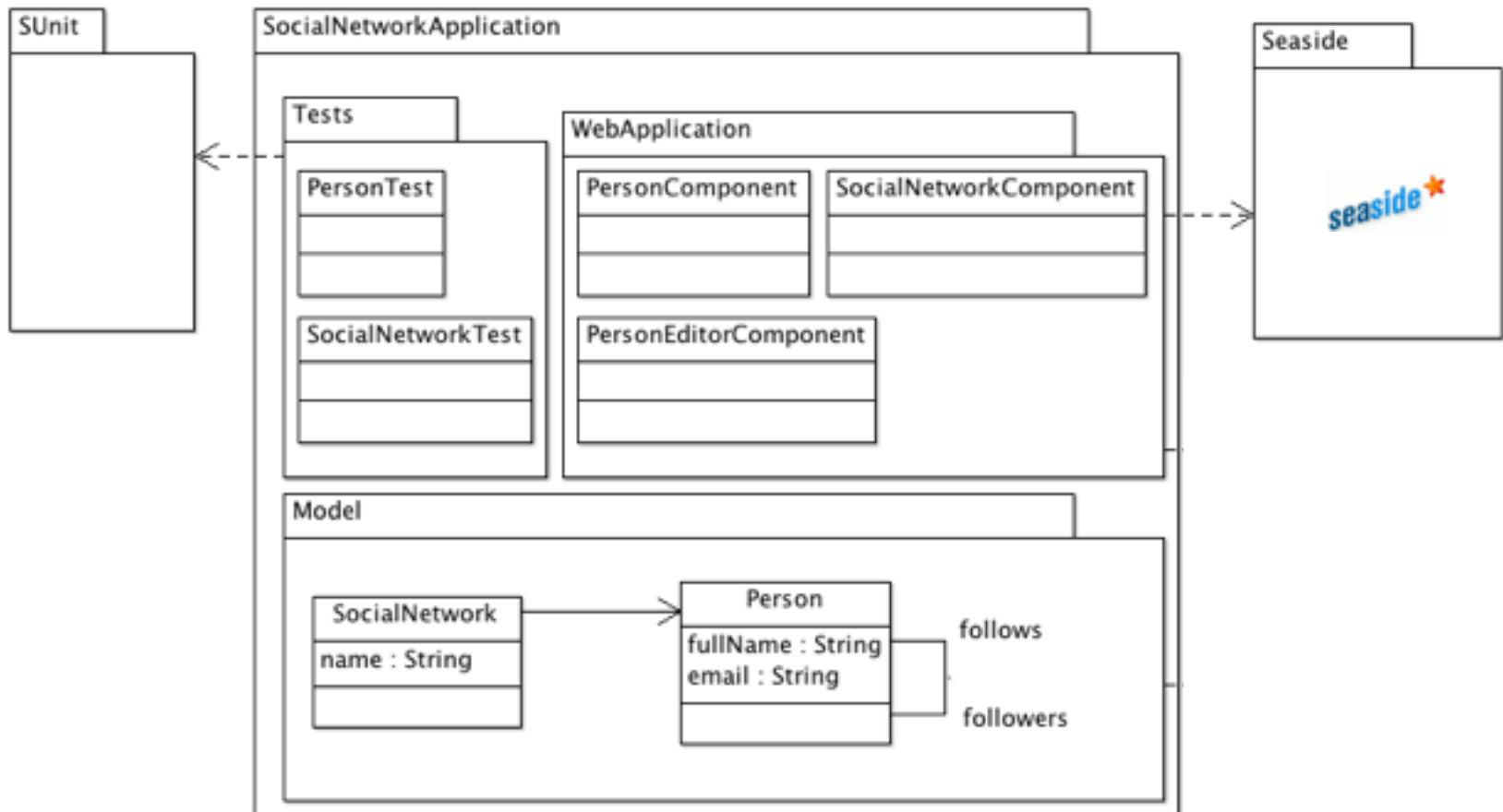
PersonEditorComponent



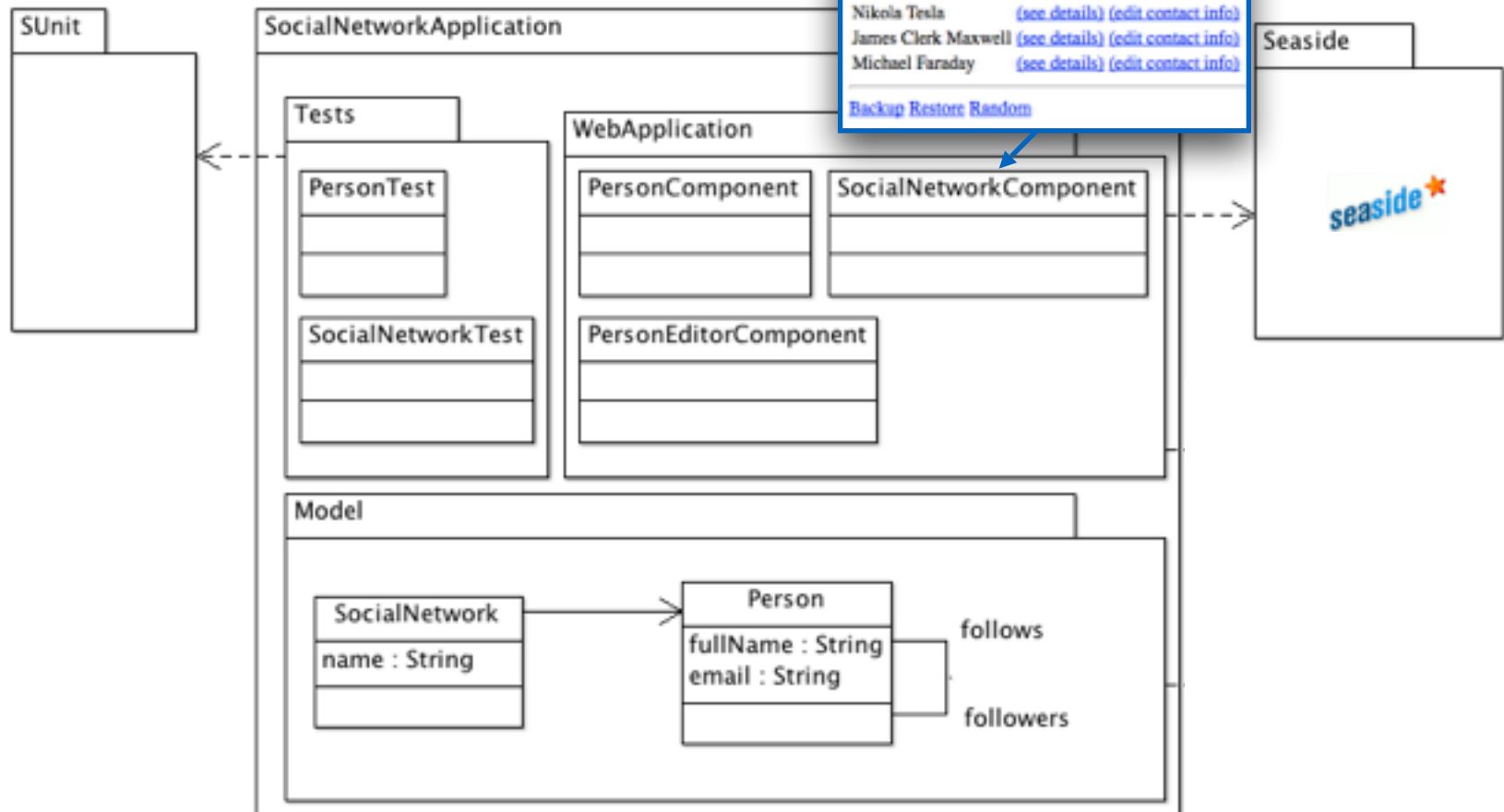
PersonComponent



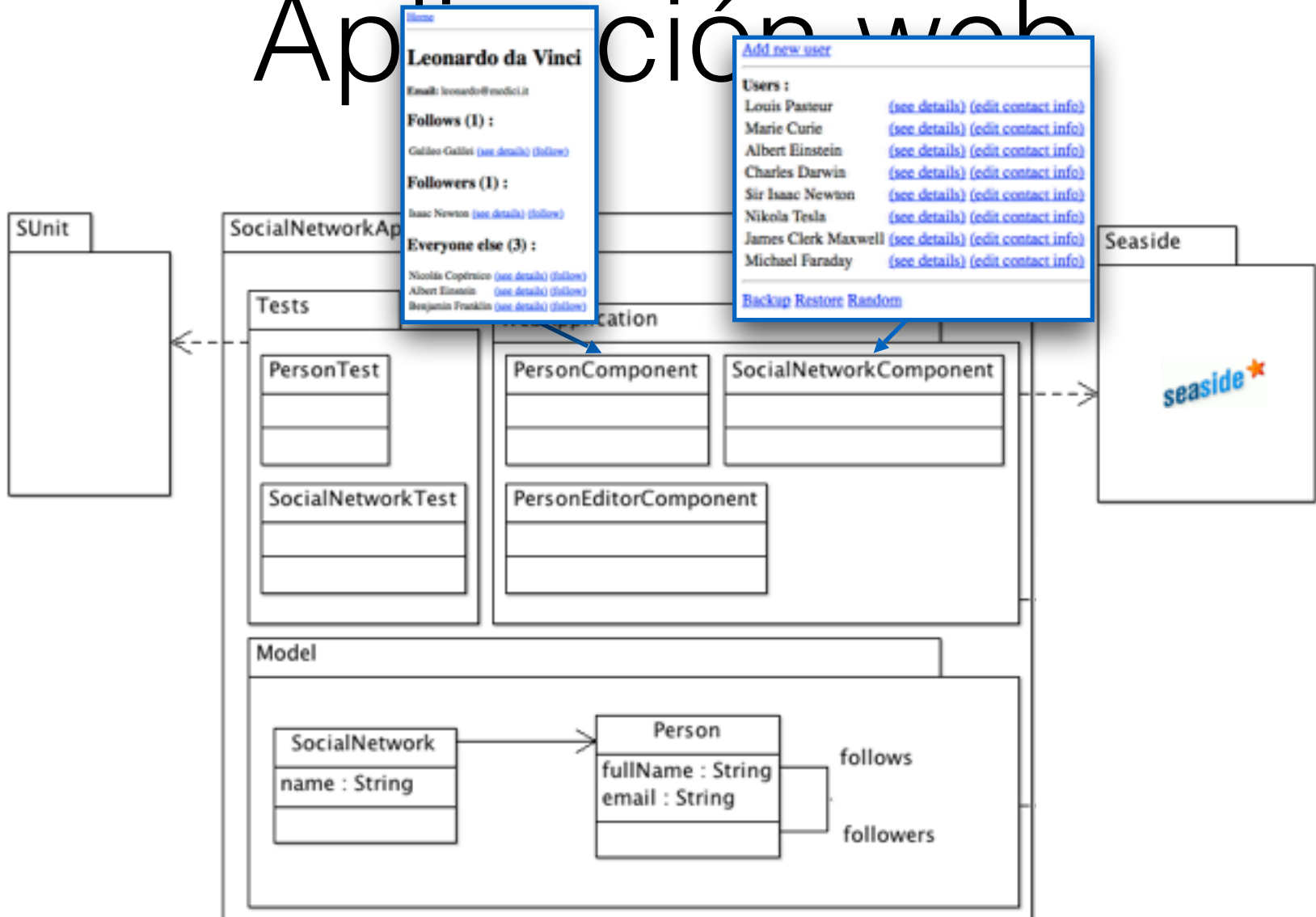
# Aplicación web



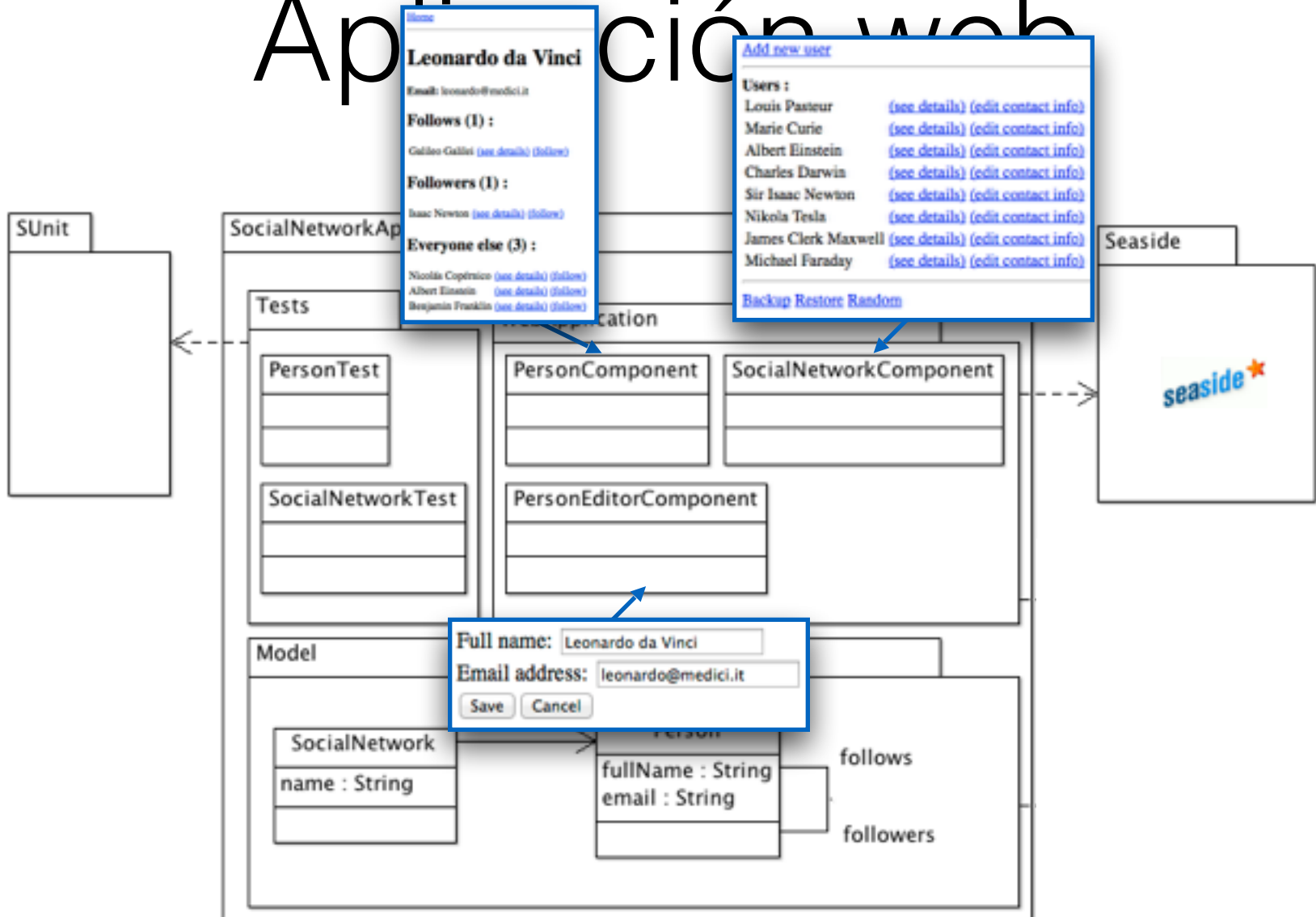
# Aplicación web



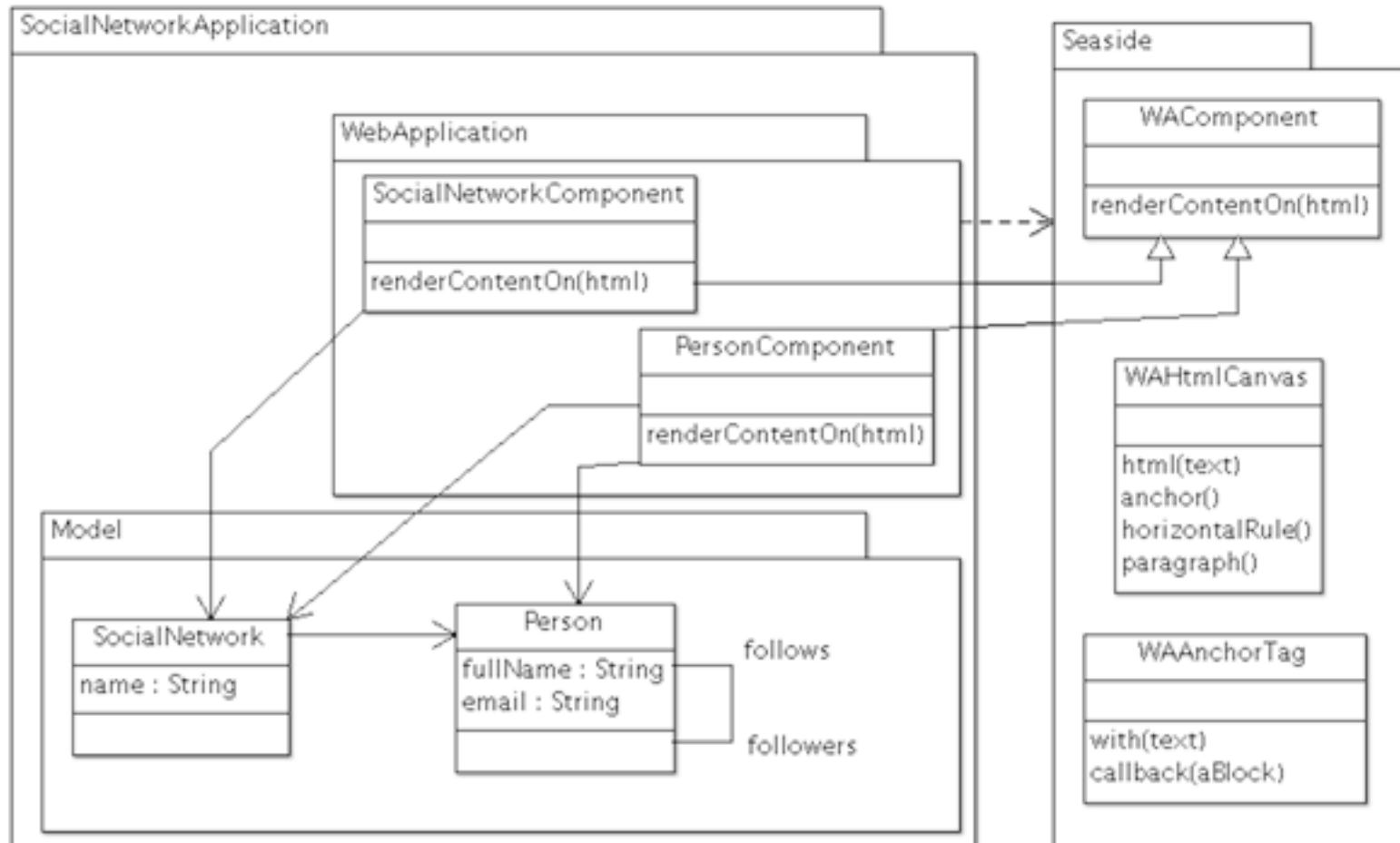
# Aplicación web



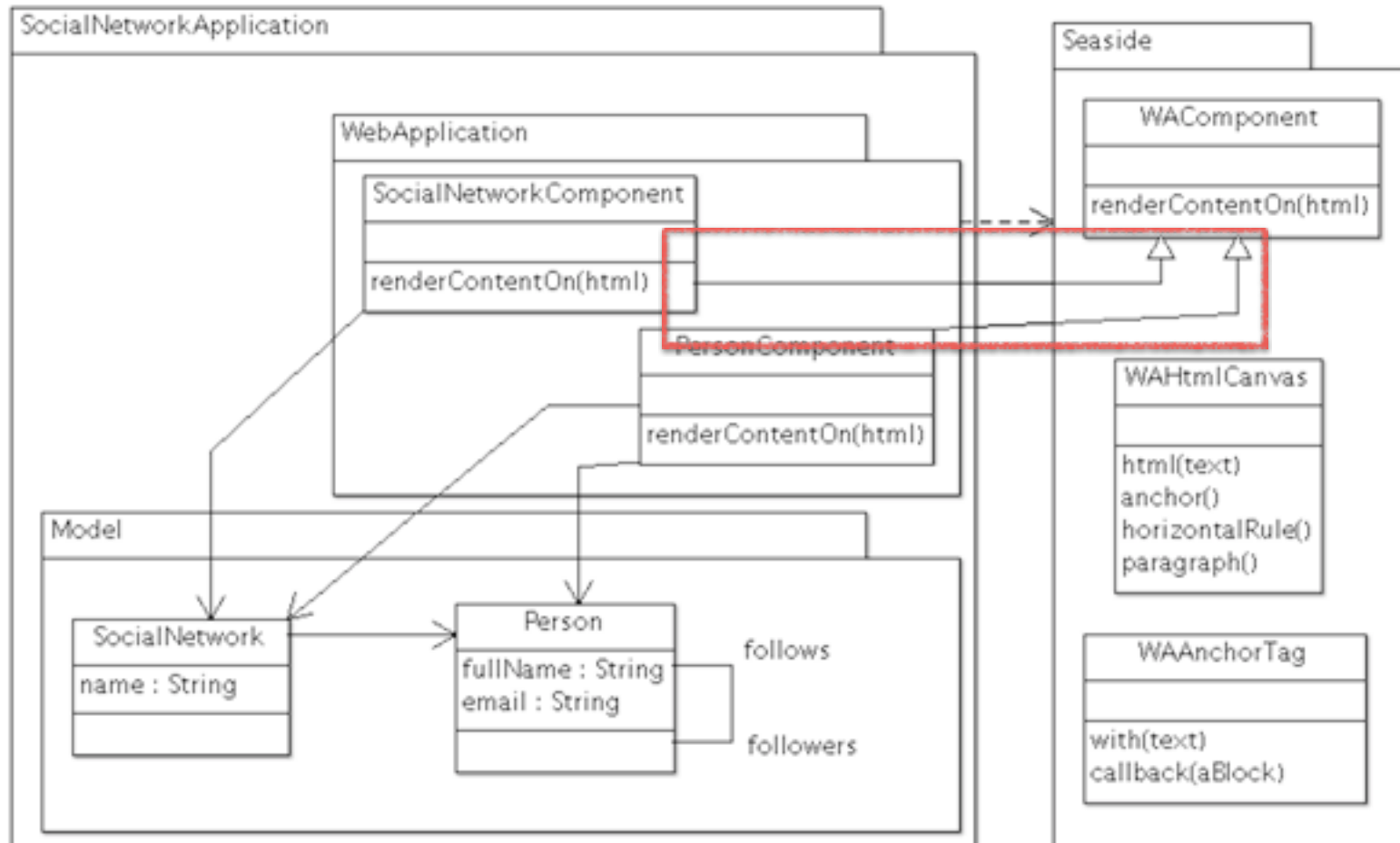
# Aplicación web



# Clase abstracta WAComponent

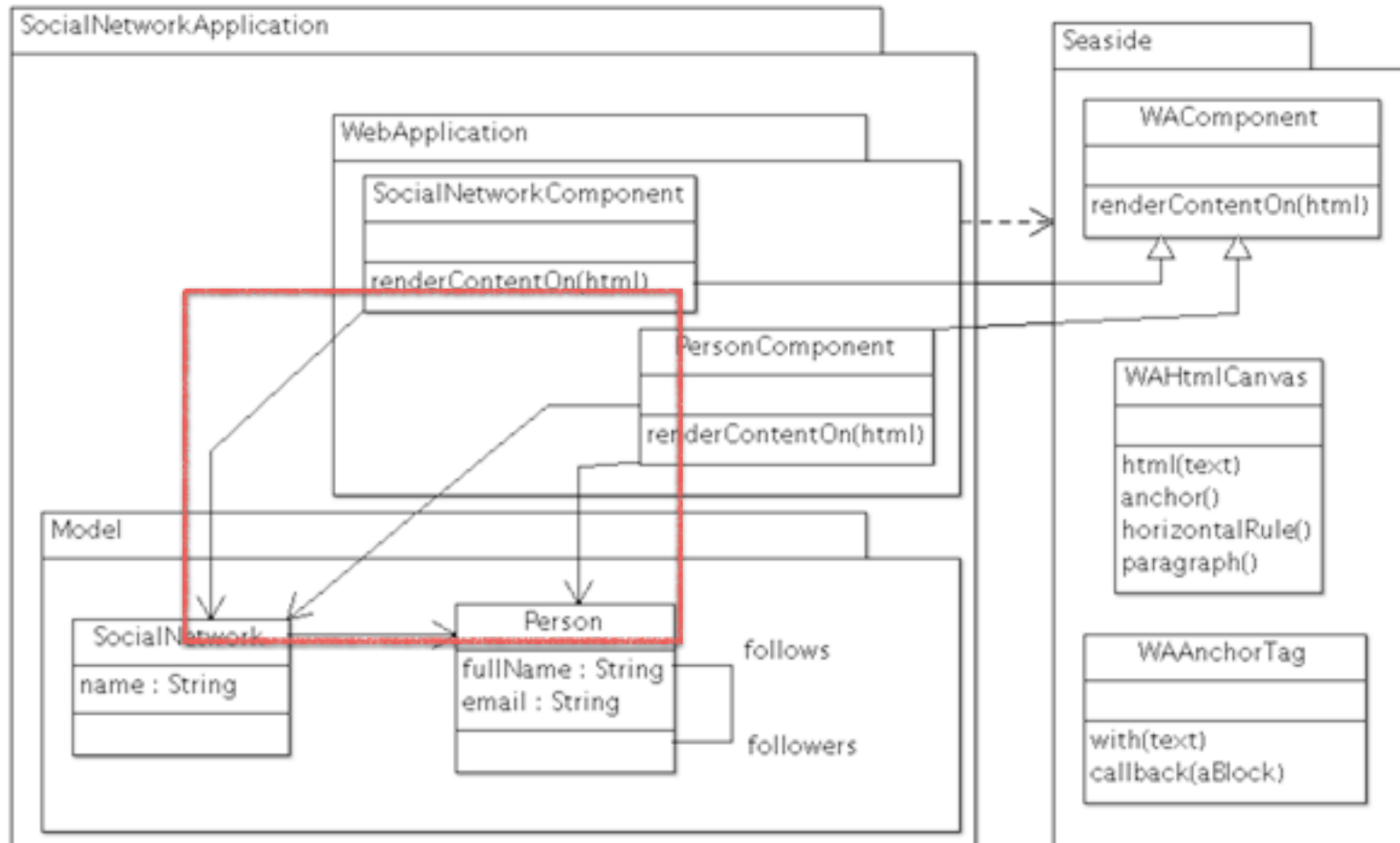


# Clase abstracta WAComponent

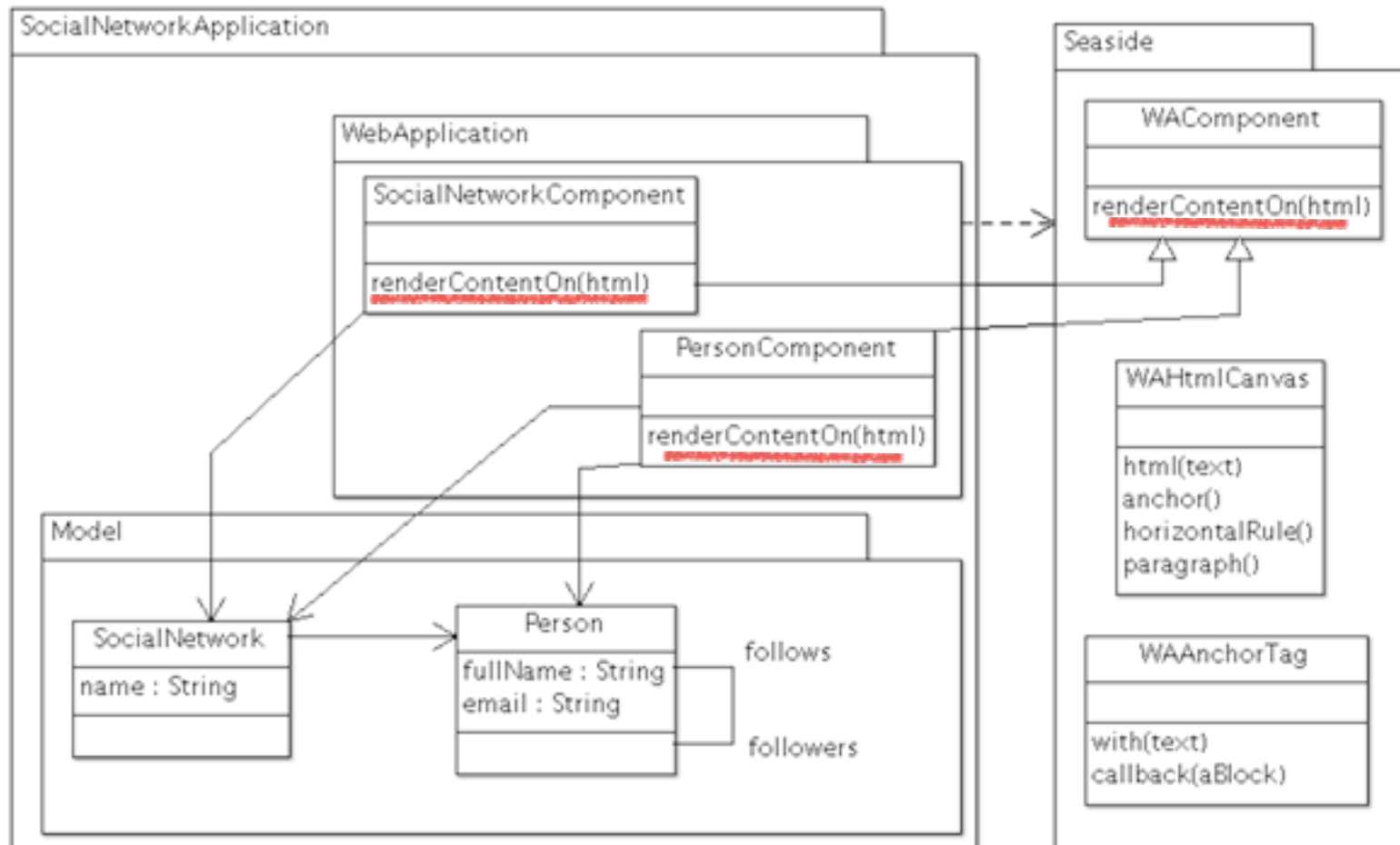




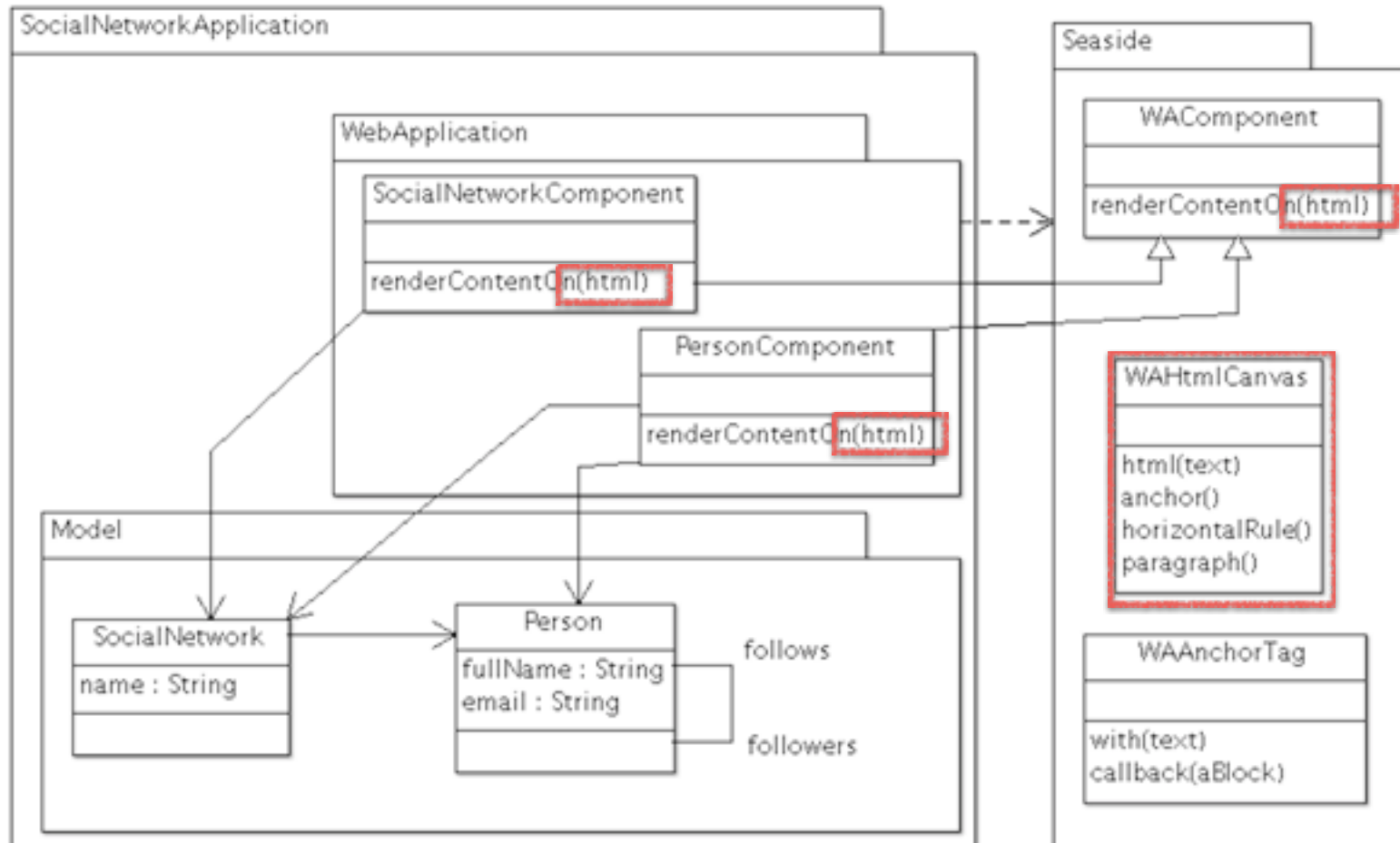
# Clase abstracta WAComponent



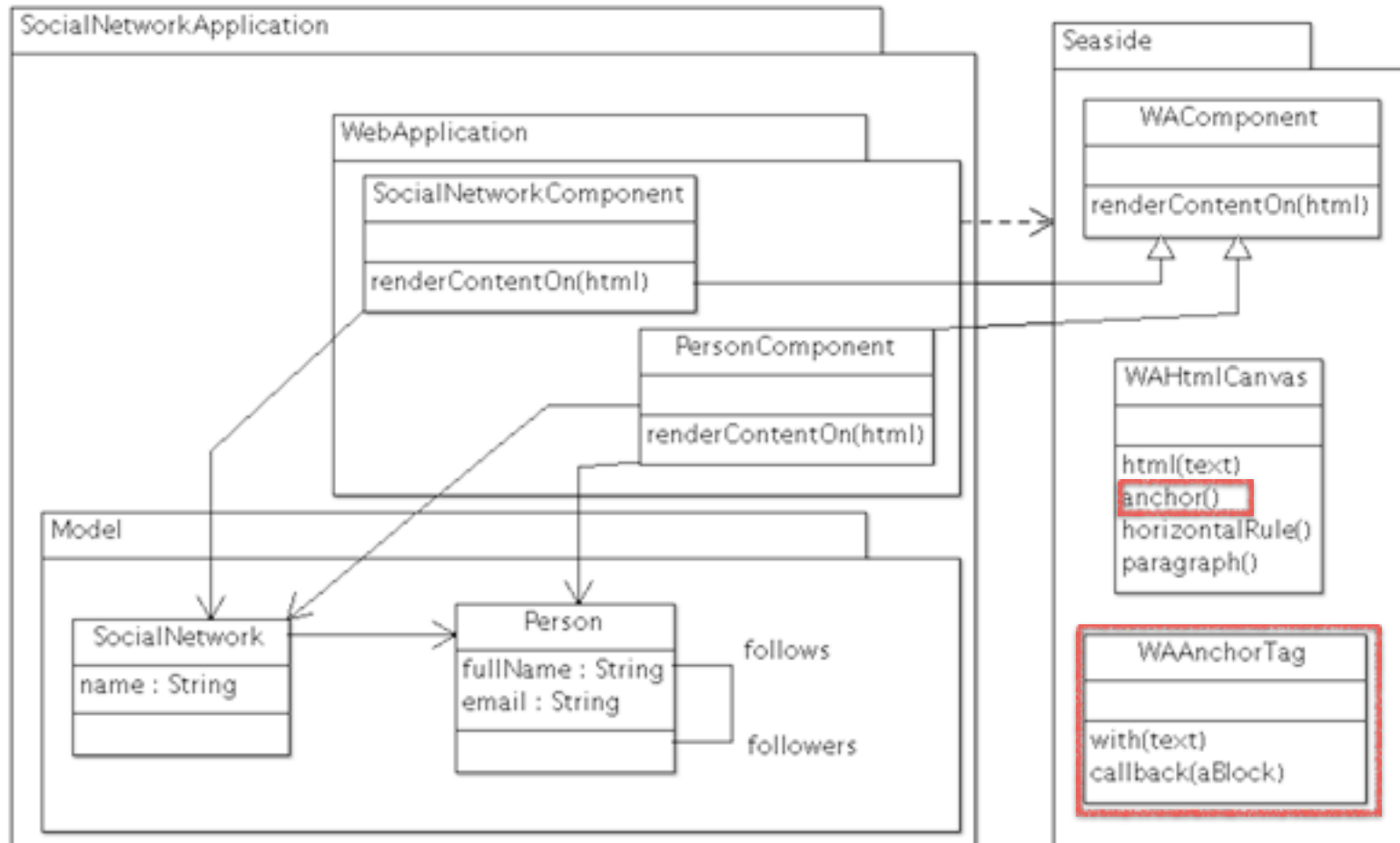
# renderContentOn:

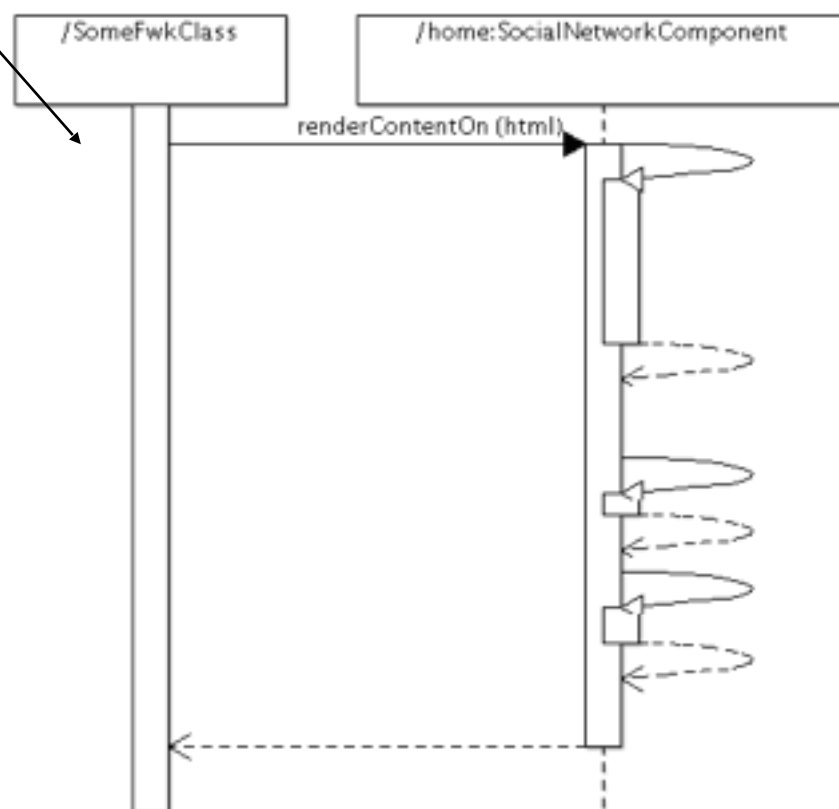
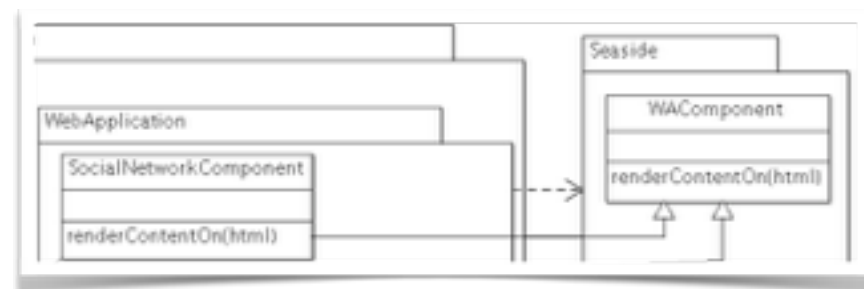


# El Canvas



# Pinceles / brushes





# renderContentOn: / Home

The screenshot shows a web application interface. At the top, there is a link [Add new user](#). Below this is a section titled **Users :** containing a list of names and their corresponding action links. The names are Louis Pasteur, Marie Curie, Albert Einstein, Charles Darwin, Sir Isaac Newton, Nikola Tesla, James Clerk Maxwell, and Michael Faraday. Each name has two links: [\(see details\)](#) and [\(edit contact info\)](#). At the bottom, there is a section with three links: [Backup](#), [Restore](#), and [Random](#). Annotations with arrows point to these sections: 'Upper toolbar' points to the 'Add new user' link, 'Users' points to the list of users, and 'Lower toolbar' points to the 'Backup', 'Restore', and 'Random' links.

[Add new user](#) ← **Upper toolbar**

---

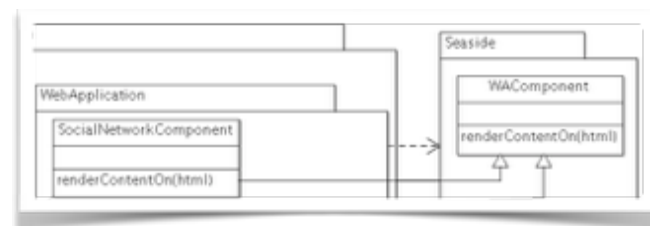
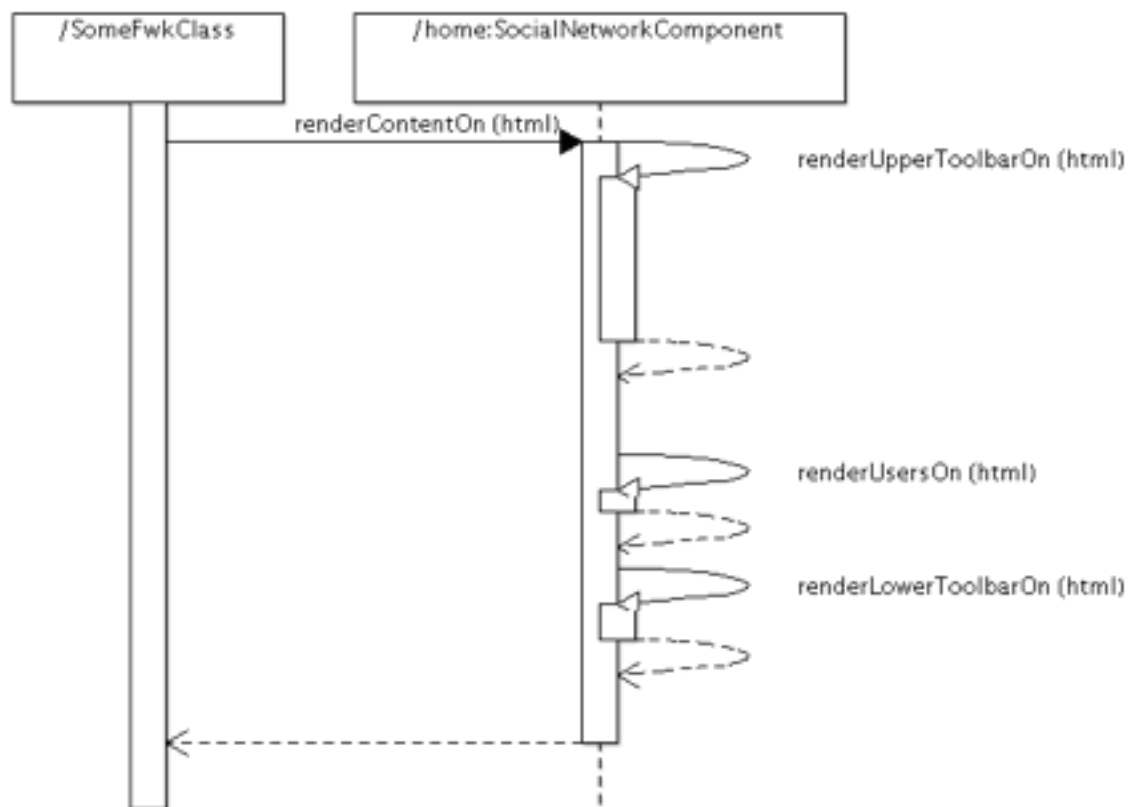
**Users :**

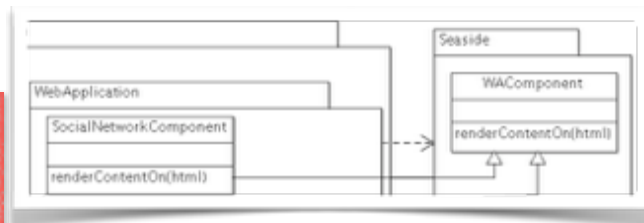
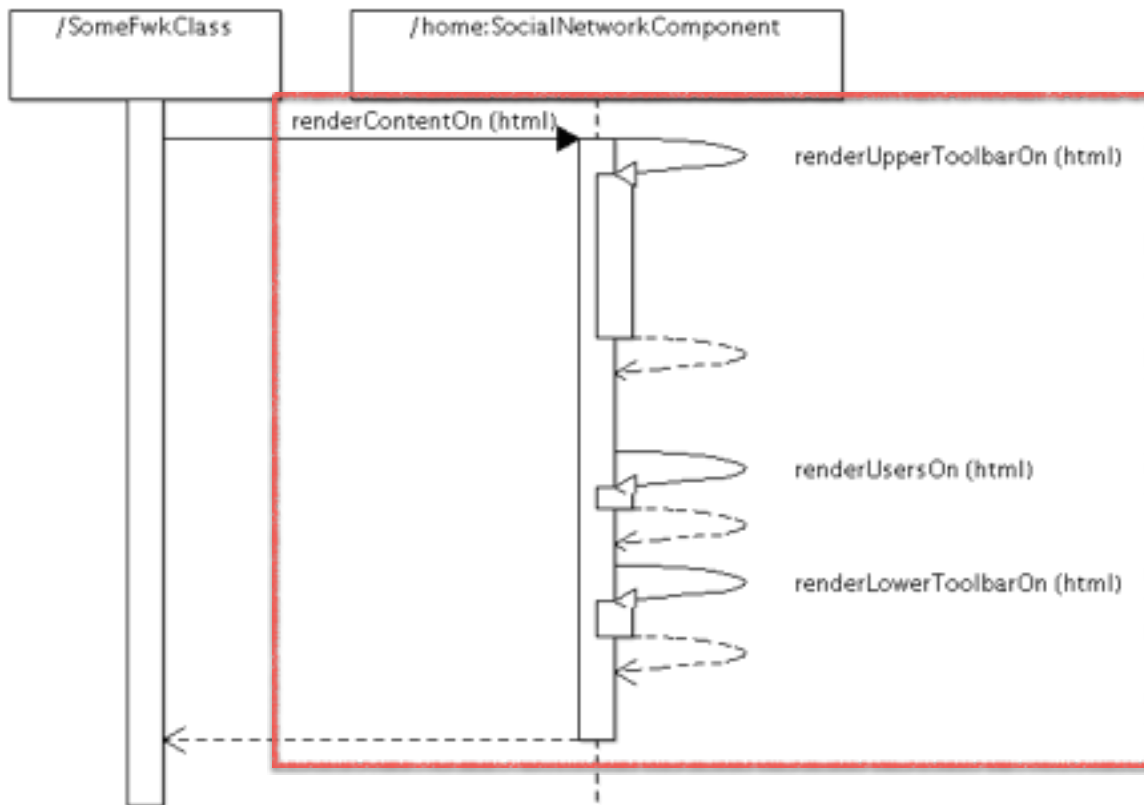
Louis Pasteur	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Marie Curie	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Albert Einstein	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Charles Darwin	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Sir Isaac Newton	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Nikola Tesla	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
James Clerk Maxwell	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>
Michael Faraday	<a href="#">(see details)</a>	<a href="#">(edit contact info)</a>

← **Users**

---

[Backup](#) [Restore](#) [Random](#) ← **Lower toolbar**





```

renderContentOn: html
self renderUpperToolbarOn: html.
self renderUsersOn: html.
self renderLowerToolbarOn: html
  
```

[Add new user](#)

**Users :**

Louis Pasteur	<a href="#">(see details)</a> <a href="#">(edit contact info)</a>
Marie Curie	<a href="#">(see details)</a> <a href="#">(edit contact info)</a>
Albert Einstein	<a href="#">(see details)</a> <a href="#">(edit contact info)</a>
Charles Darwin	<a href="#">(see details)</a> <a href="#">(edit contact info)</a>
Sir Isaac Newton	<a href="#">(see details)</a> <a href="#">(edit contact info)</a>
Nikola Tesla	<a href="#">(see details)</a> <a href="#">(edit contact info)</a>
James Clerk Maxwell	<a href="#">(see details)</a> <a href="#">(edit contact info)</a>
Michael Faraday	<a href="#">(see details)</a> <a href="#">(edit contact info)</a>

[Backup](#) [Restore](#) [Random](#)