

Seaside Hotwired

Johan Brichau
johan@yesplan.be





- Server-side web application framework
- Page-based navigation
- jQuery-Javascript integration for “SPA” behaviour

<https://github.com/SeasideSt/Seaside>

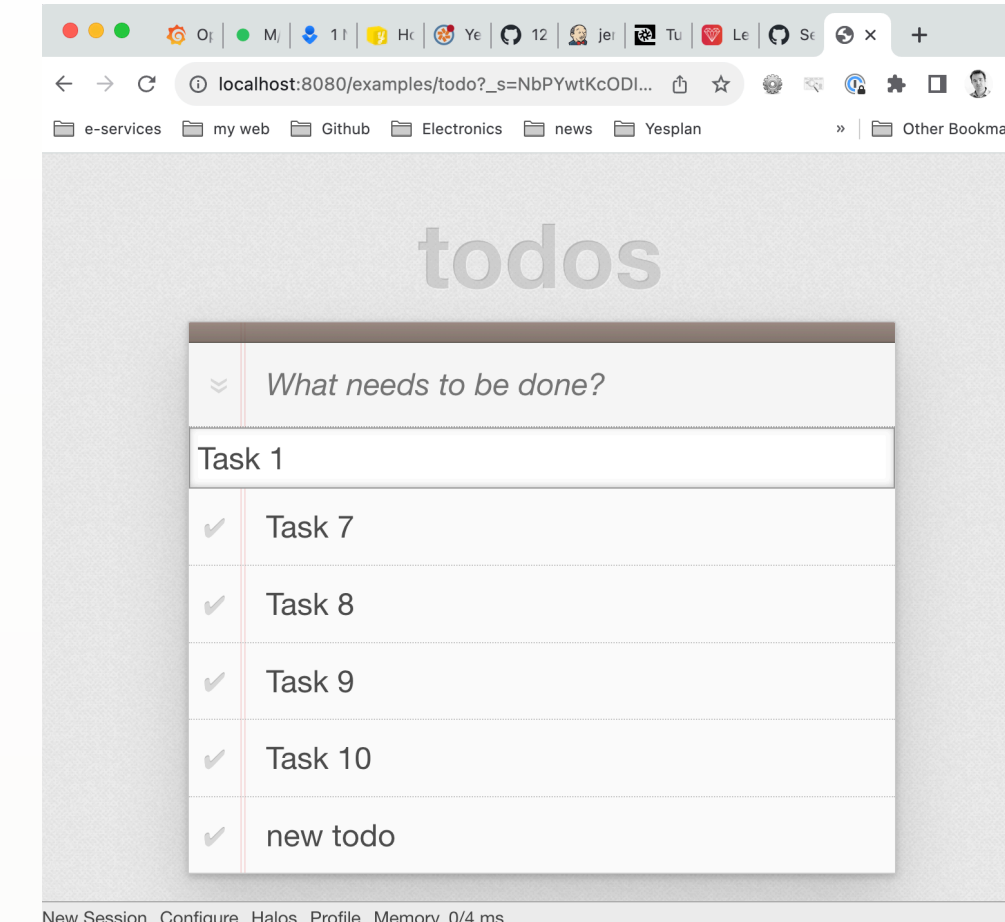
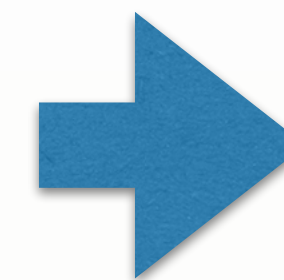
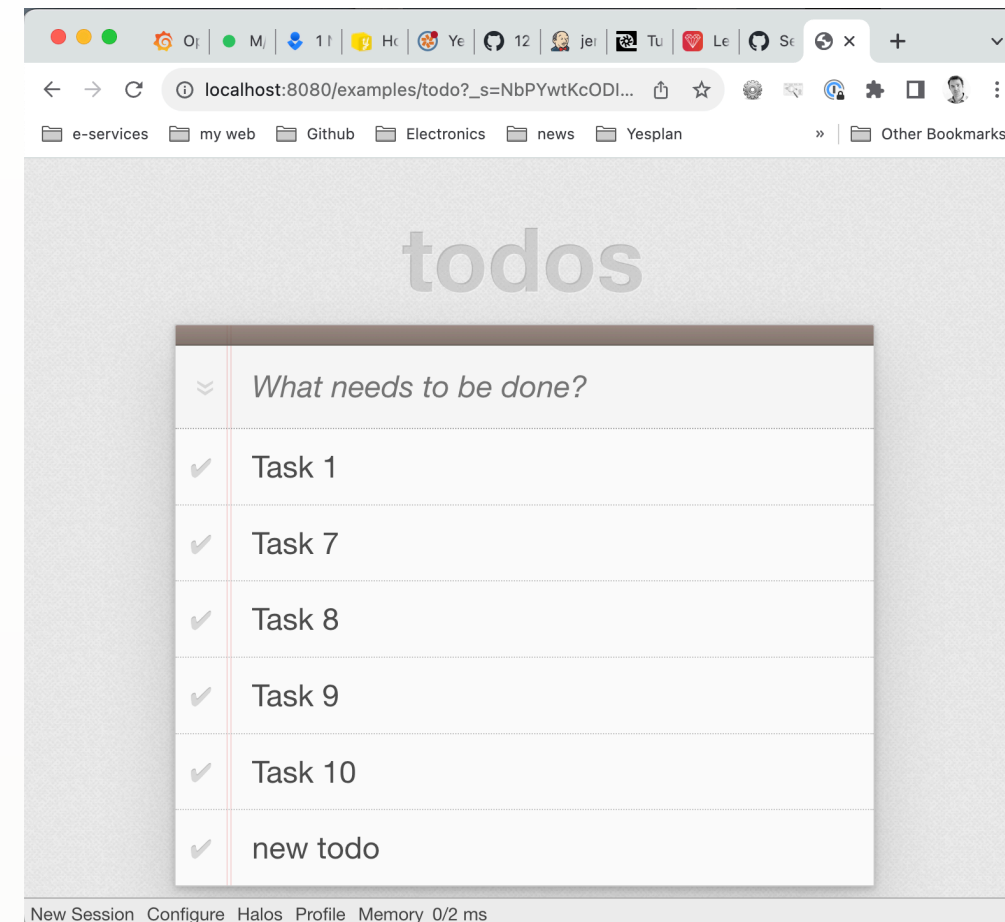
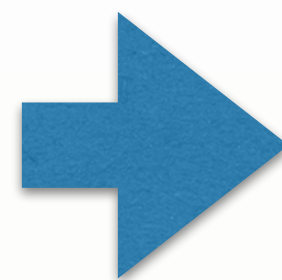
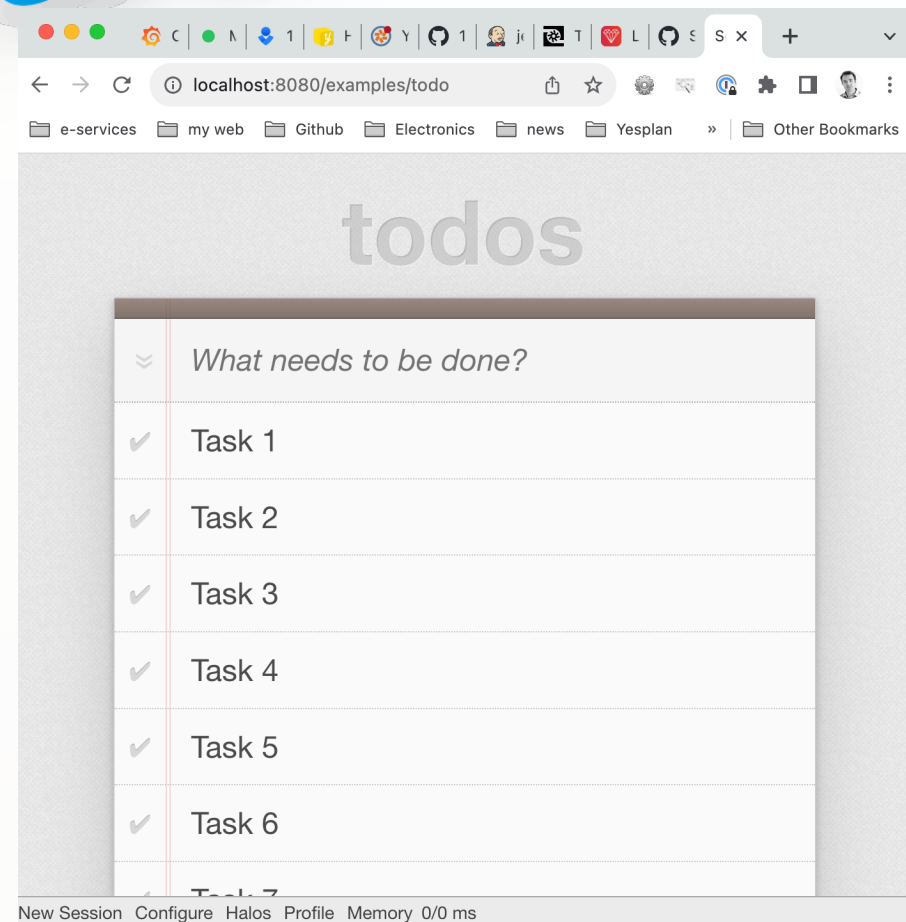
<https://seaside.st>



- Client-side framework to augment server-side rendered pages
- Implement “SPA” behaviour without JS*
- Origins in Ruby-on-Rails but server-framework agnostic
- Turbo & Stimulus

<https://hotwired.dev/>

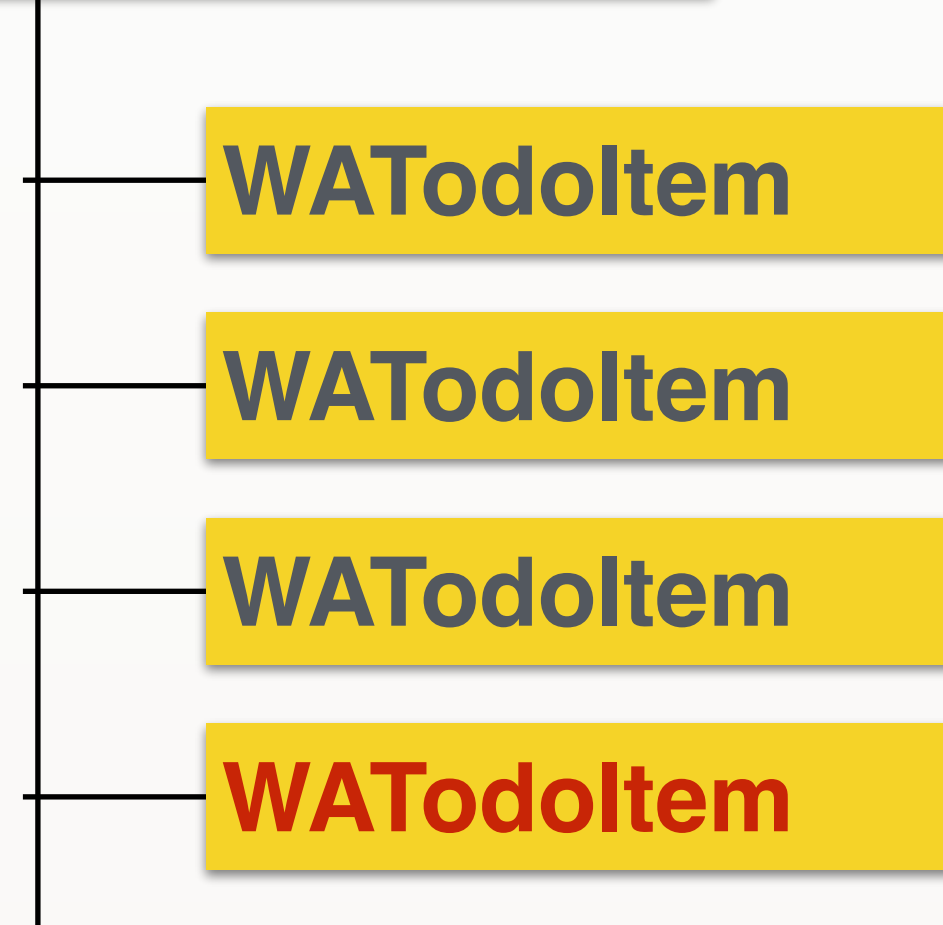
seaside



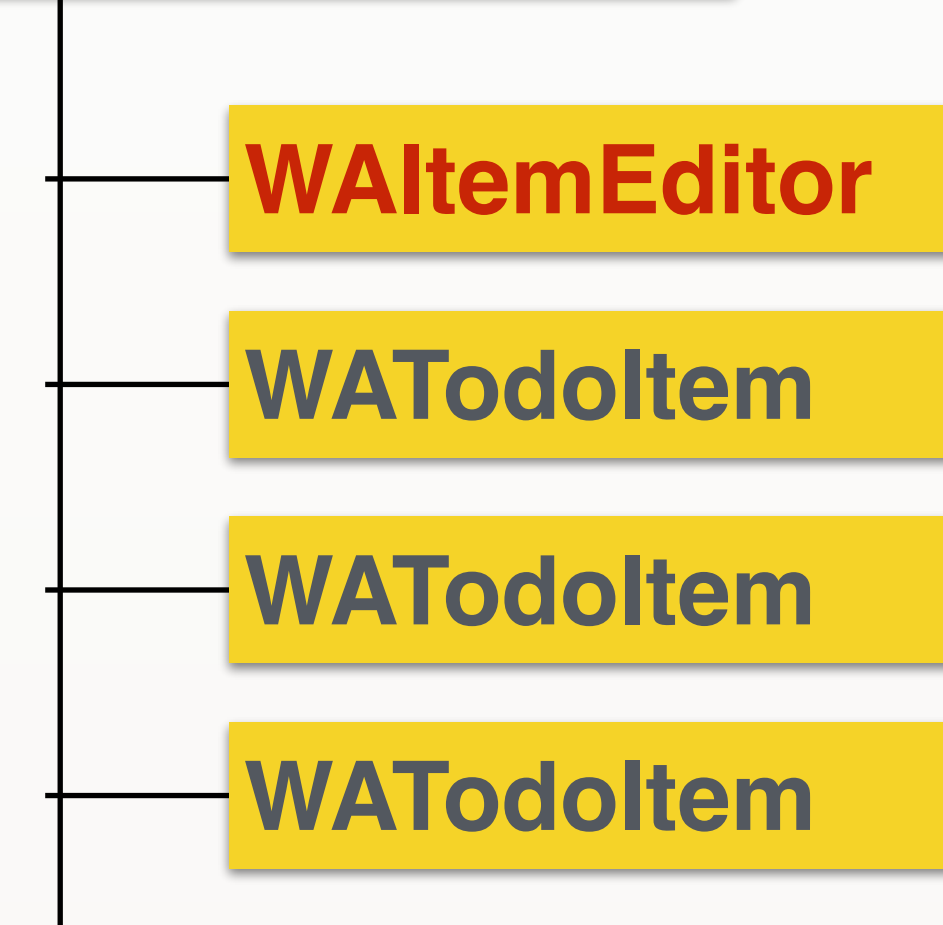
WATodo



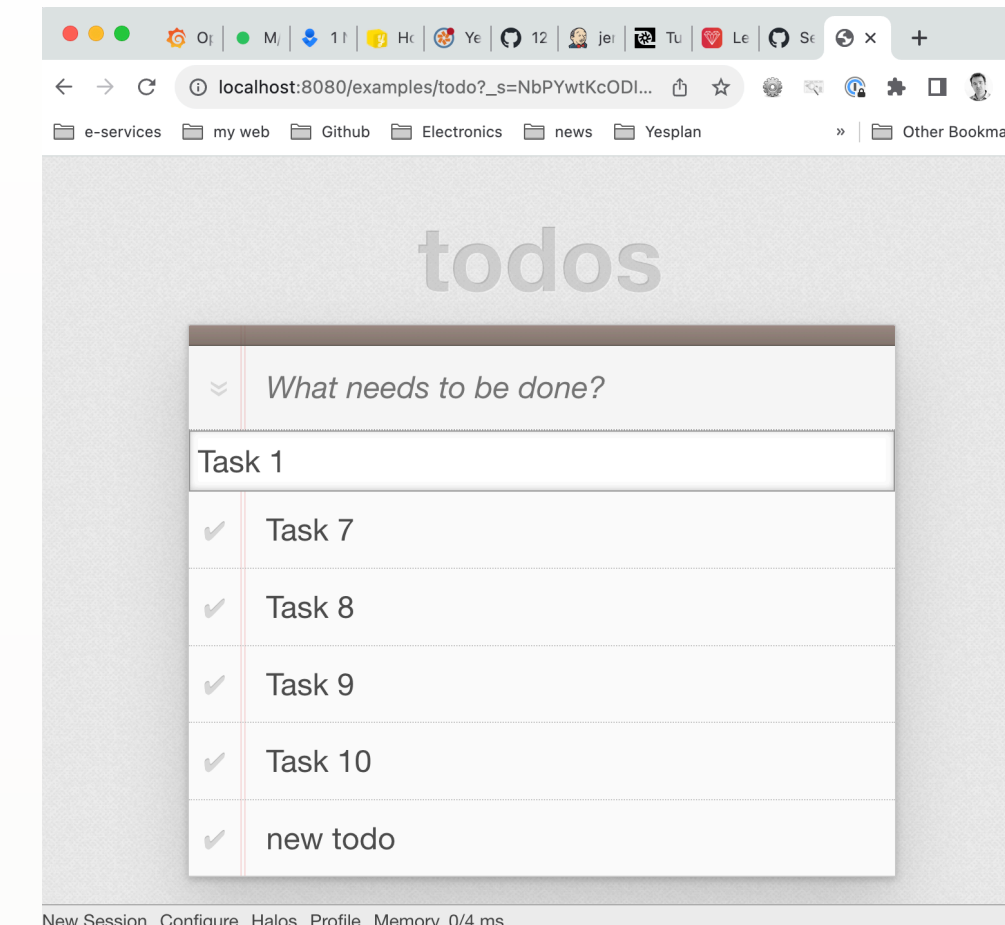
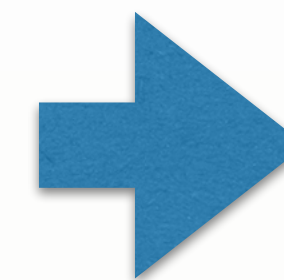
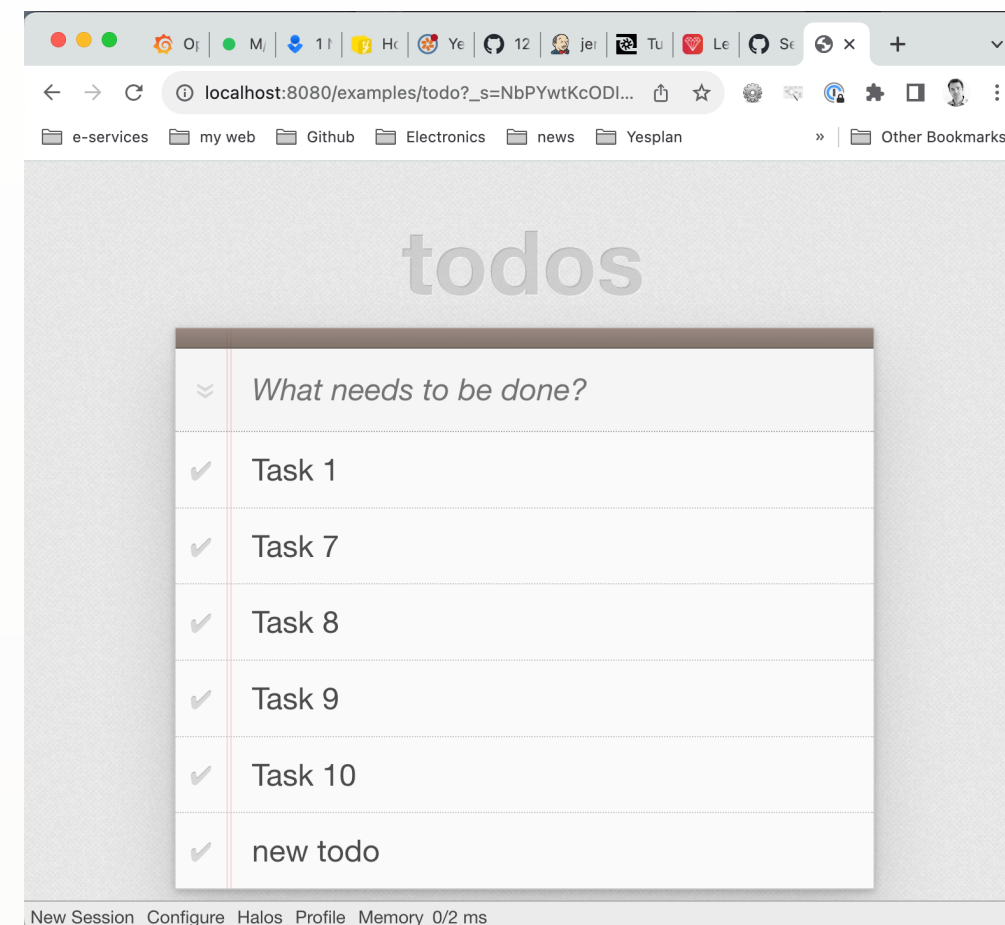
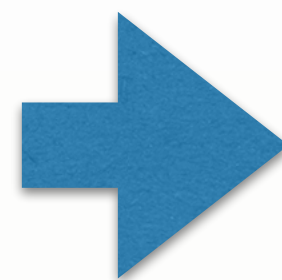
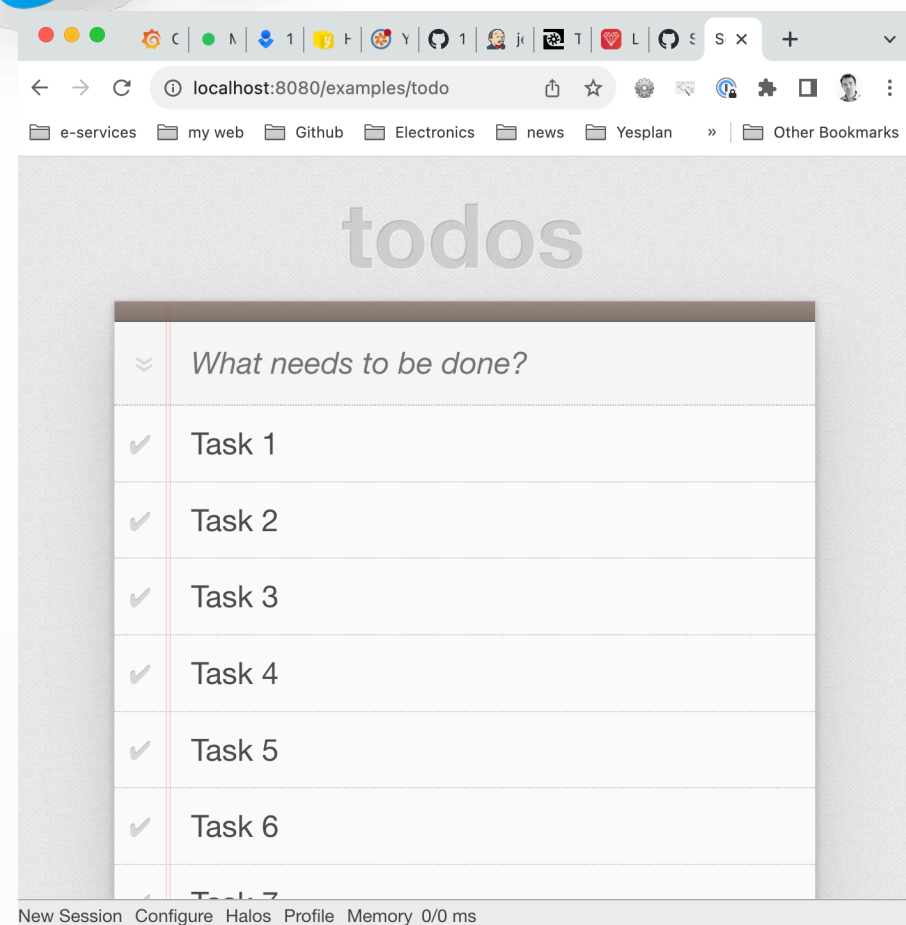
WATodo



WATodo



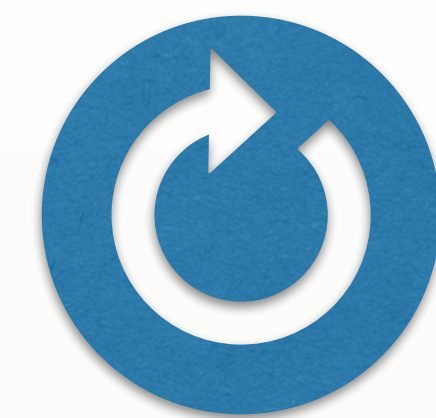
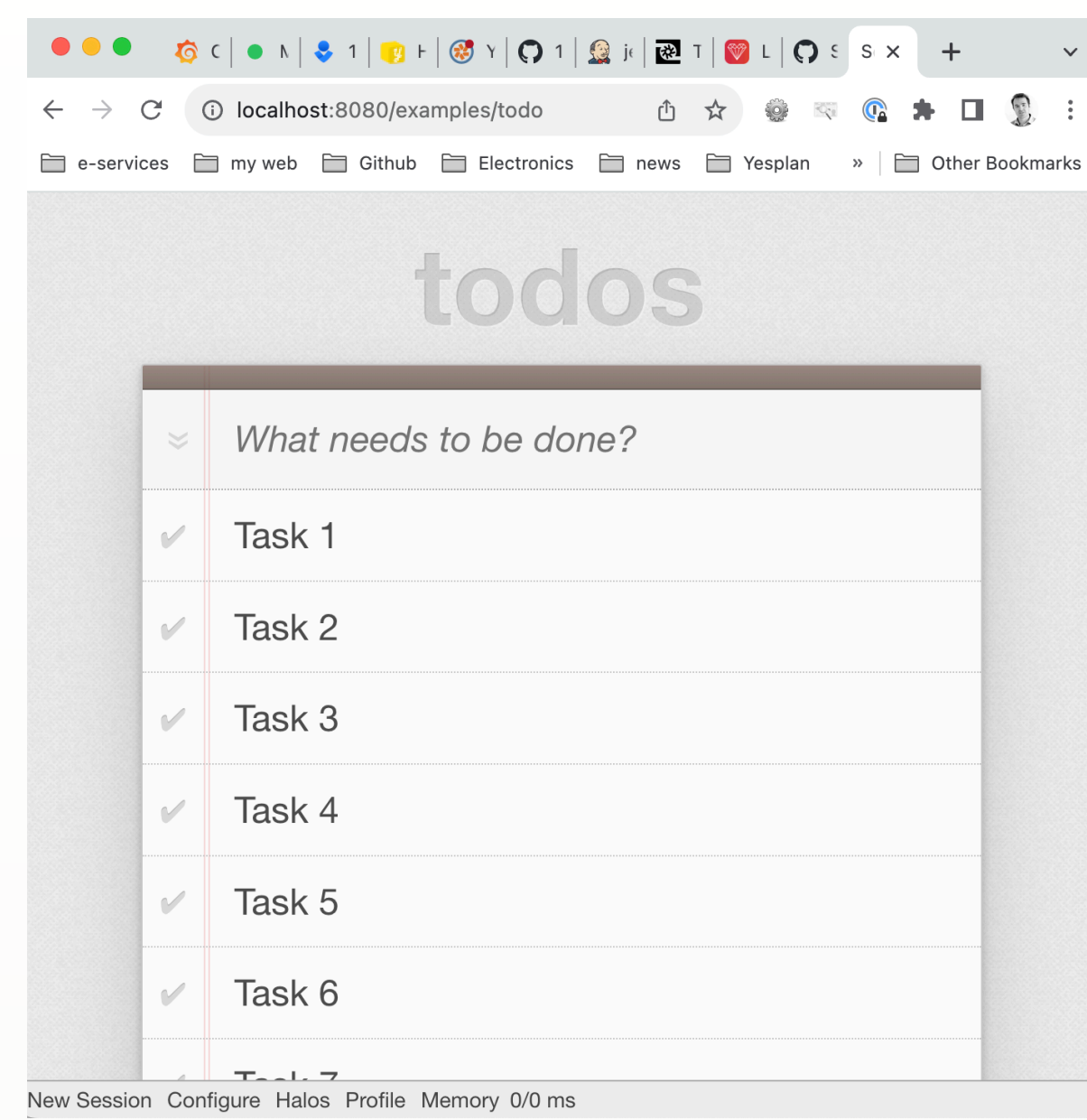
seaside



- Each action triggers a full page rendering
- Each page is a continuation in Seaside
- Server-side implementation only



for



WATodo

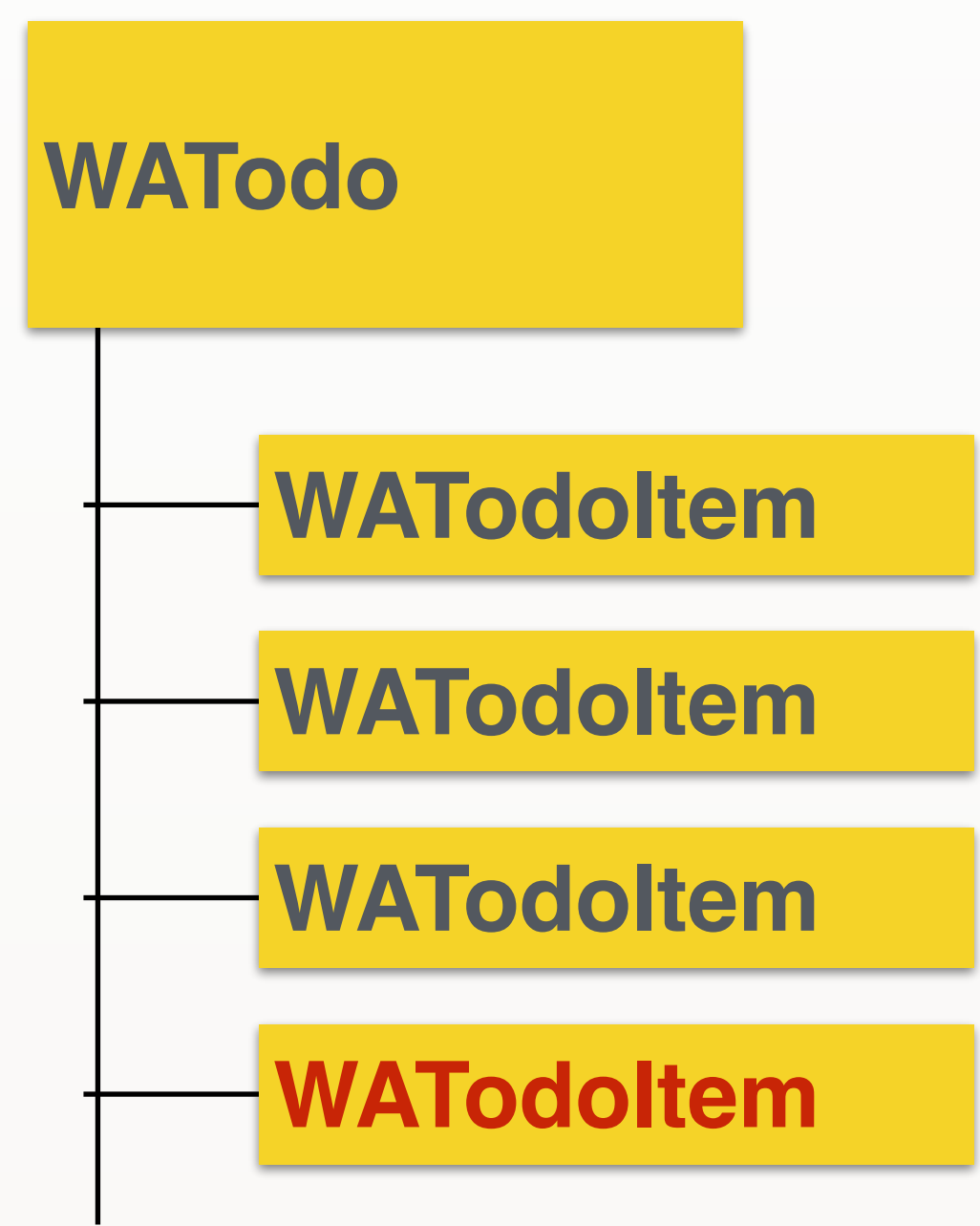
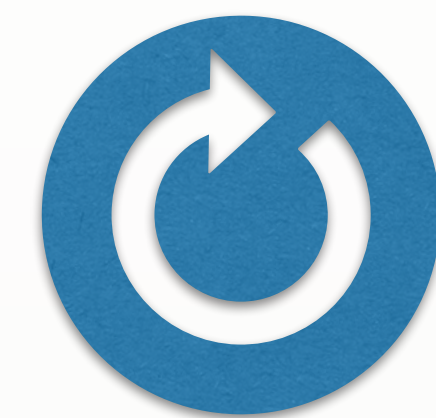
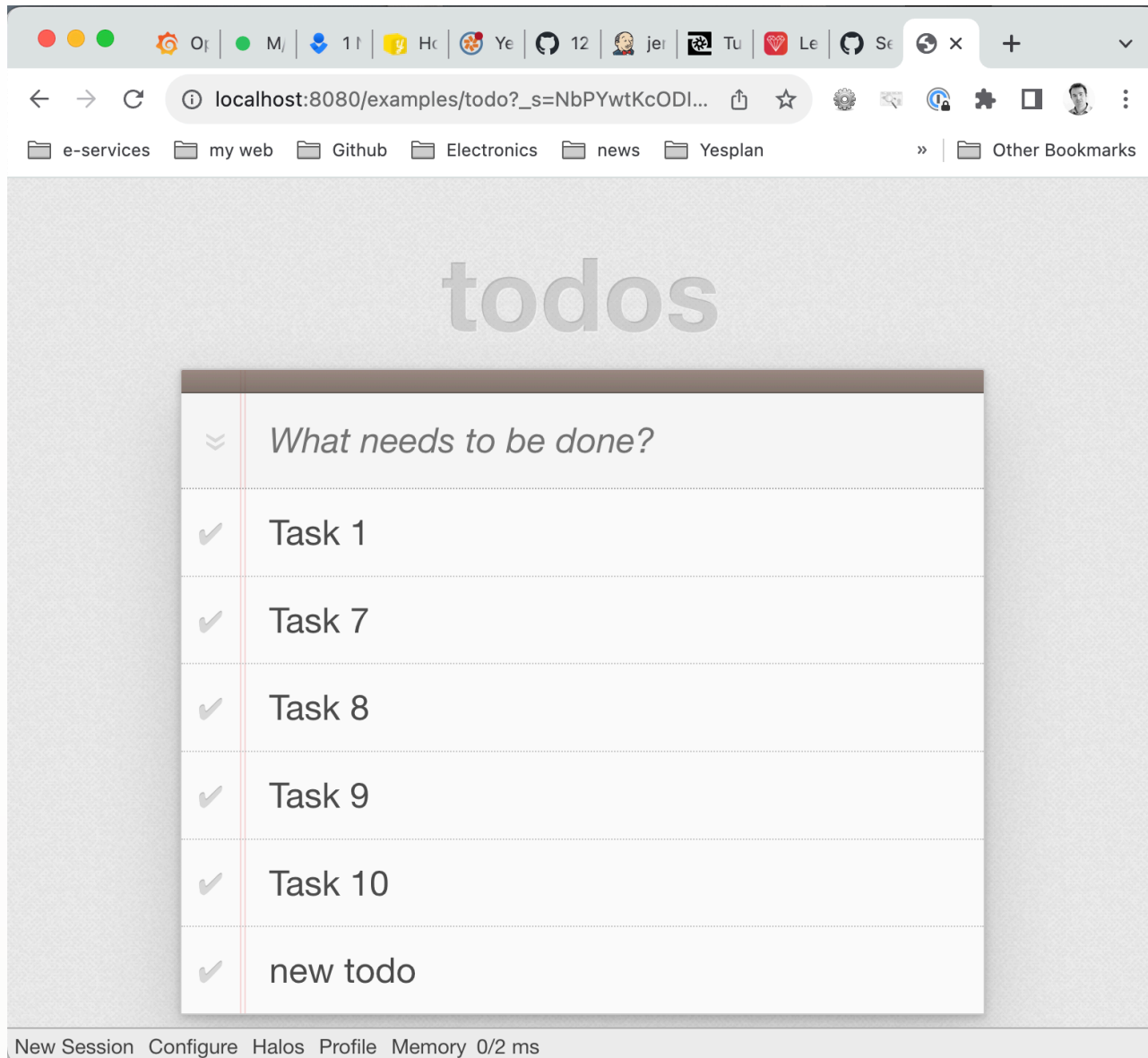
WATodoItem

WATodoItem

WATodoItem

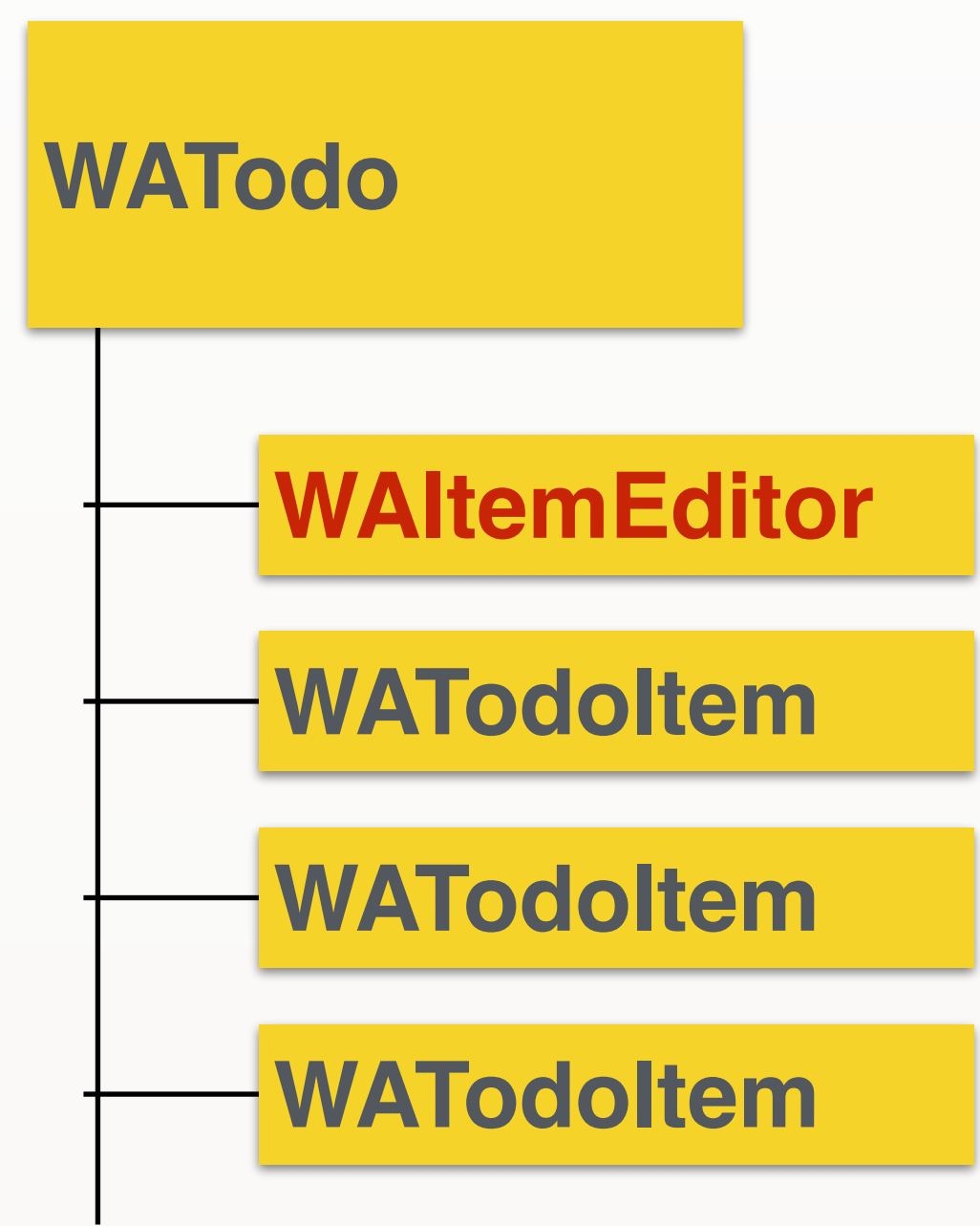
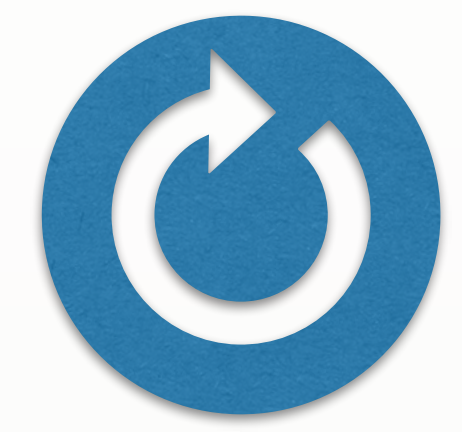
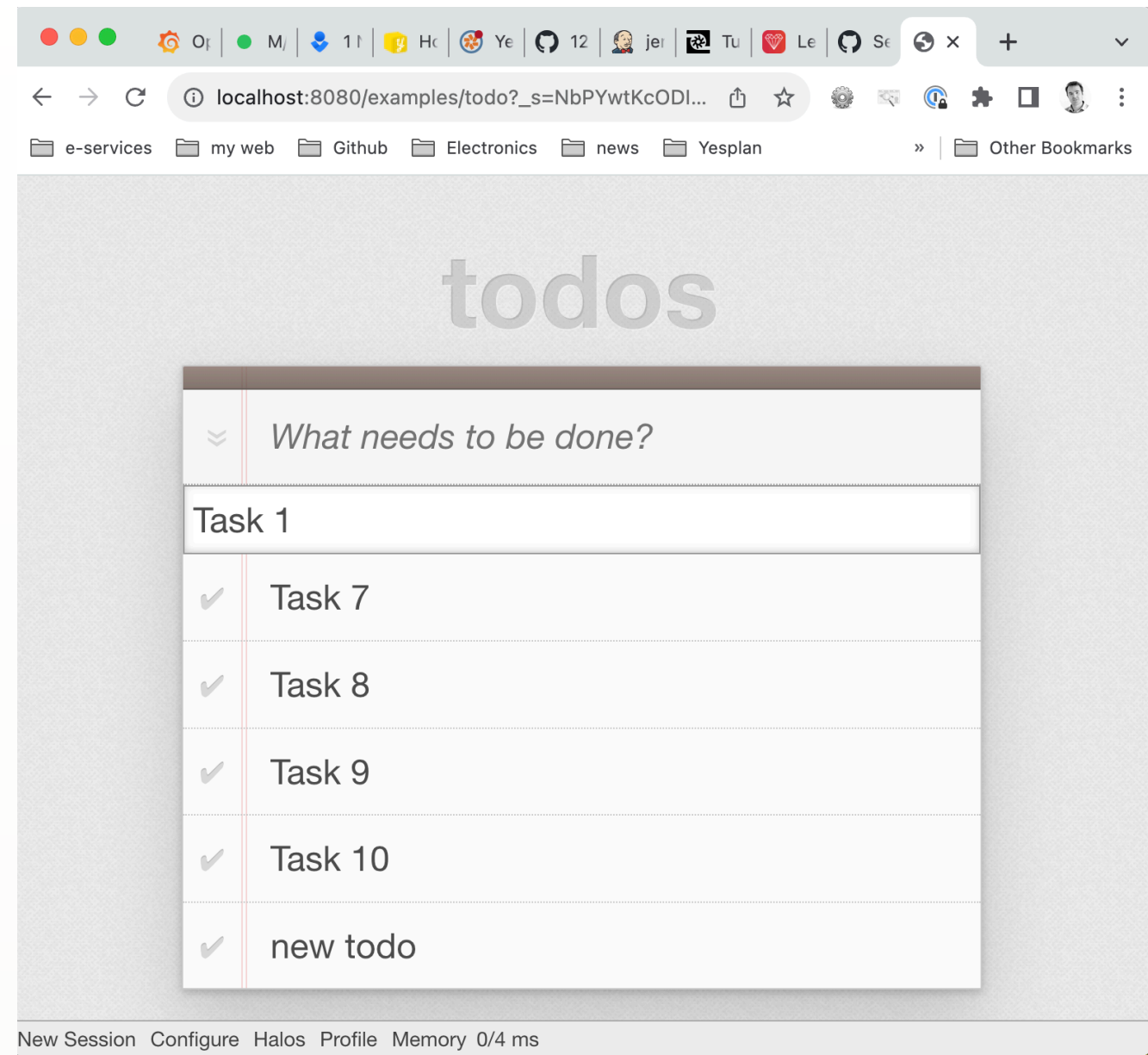


for





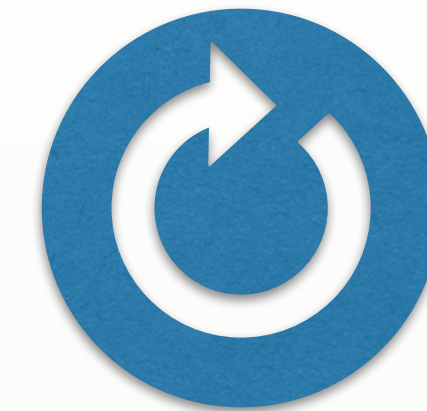
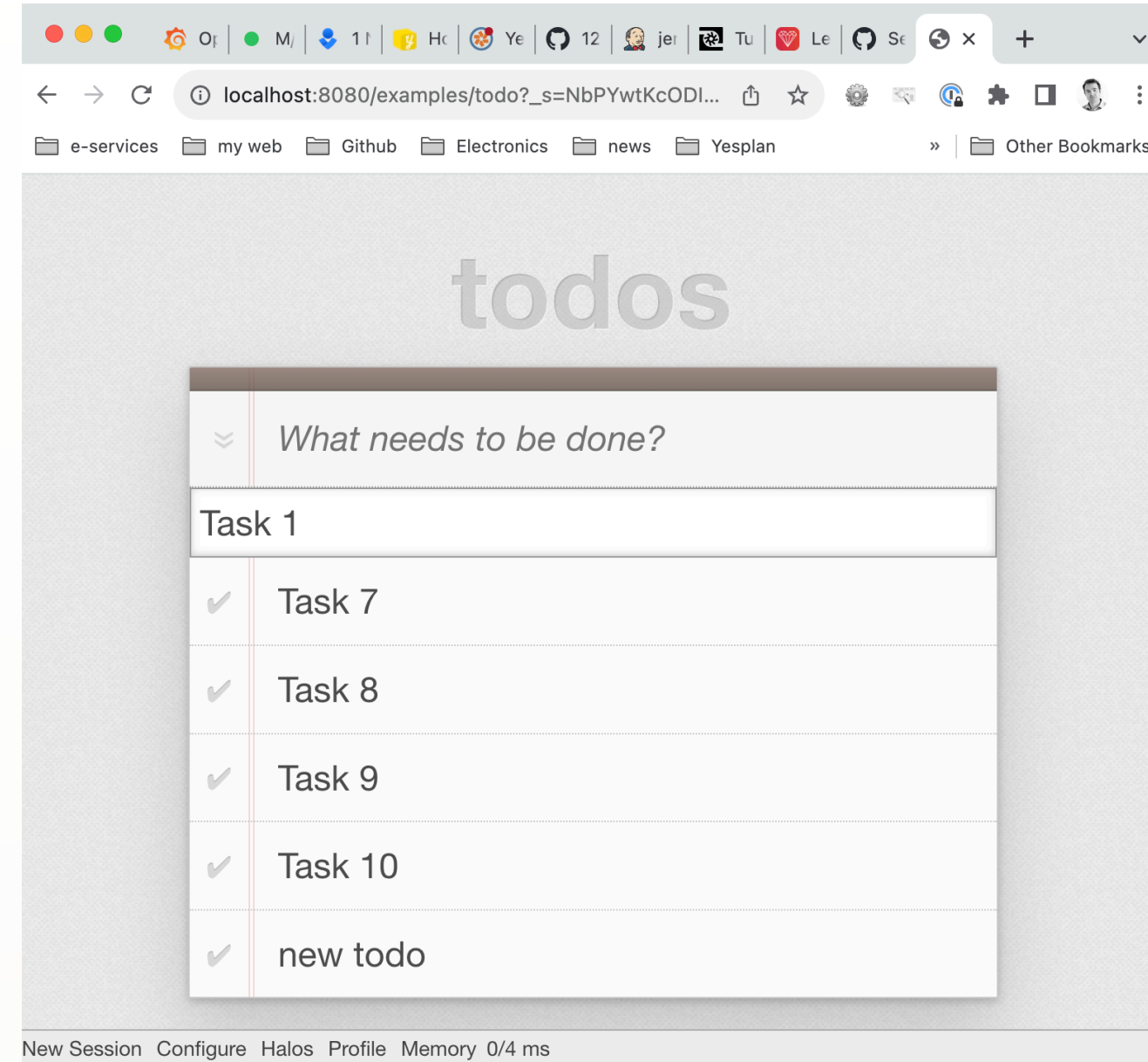
for





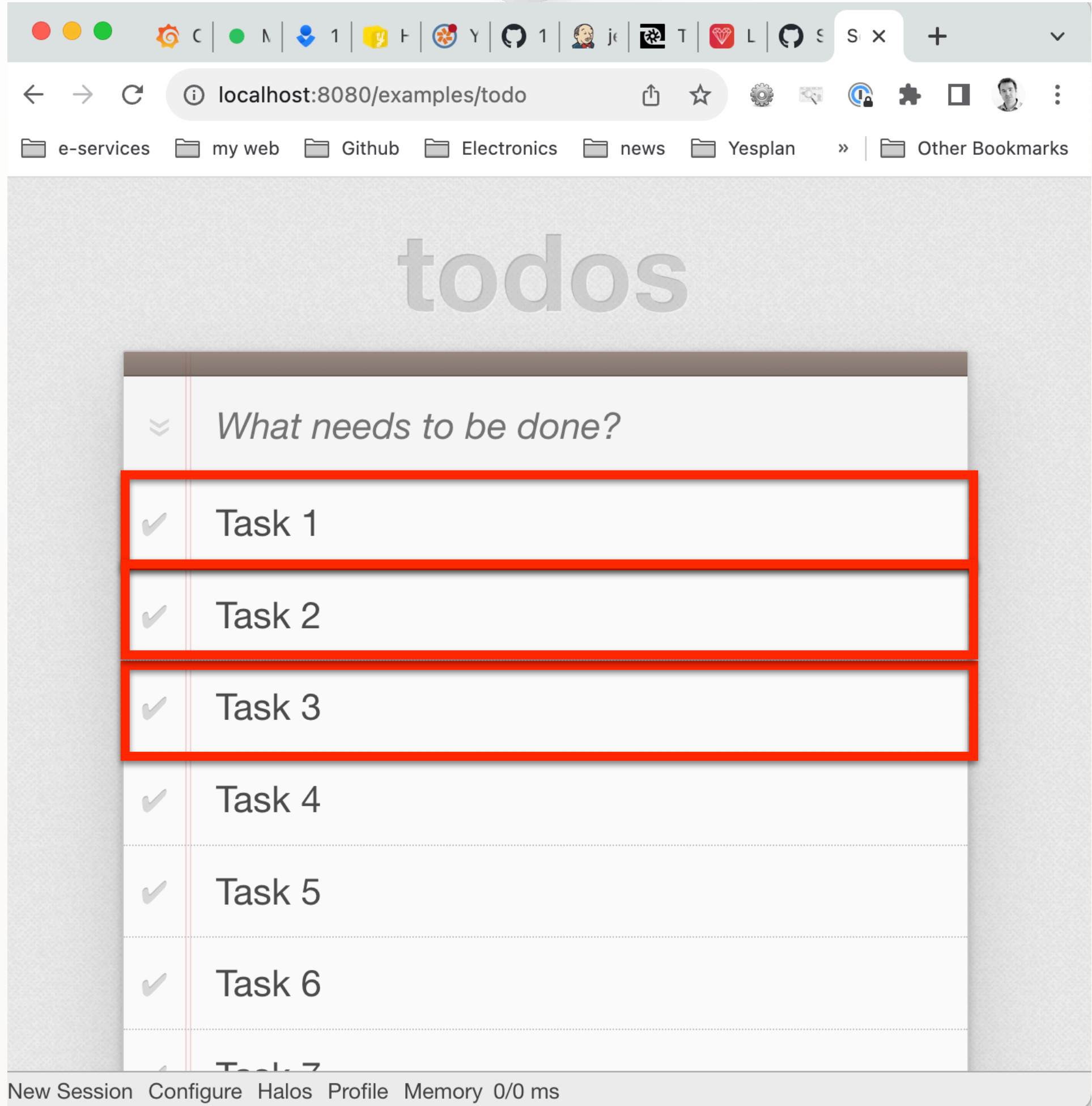
for

seaside 



- Each action triggers a XMLHttpRequest (jQuery AJAX)
- One page, one continuation in Seaside
- Server side (Smalltalk) and client-side (Javascript) implementation

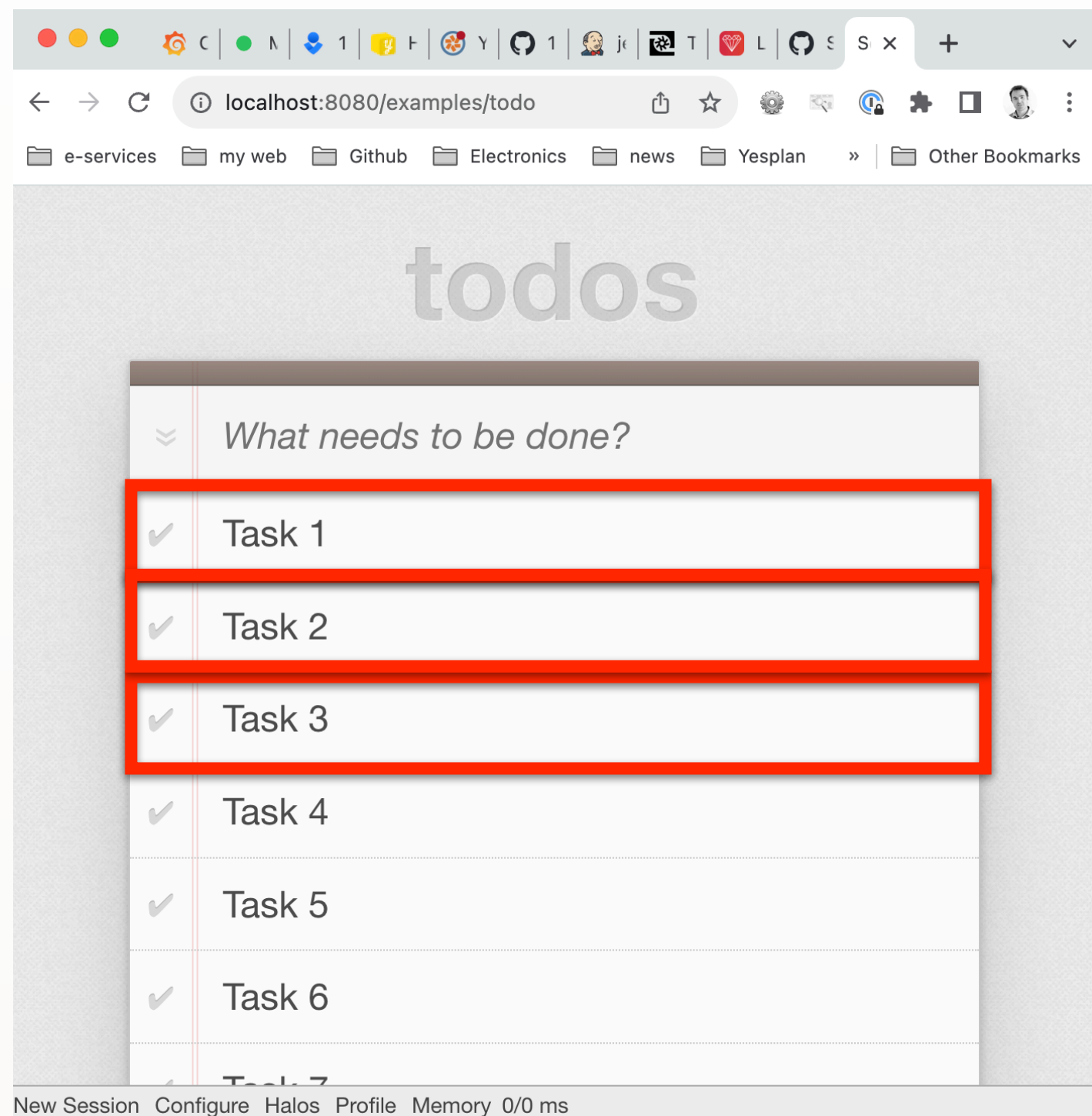
seaside



Turbo frames



Turbo Frames are independent pieces of a web page that can be appended, prepended, replaced, or removed without a complete page refresh



- **Call/answer replaces the receiving component with the called component**
- **Action callback changes state of one or more components**

- **Action link inside a turboframe replaces that frame**
- **Turbostream of actions:**
 - **Replace / Update**
 - **Remove**
 - **Append / Prepend**
 - **Before / After**



- **In summary:**
 - **Divide a page in Turbo Frames by decorating existing components**
 - **Adapt Links & Forms to do partial page updates with `turboCall:` & `turboStreamCallback:`**
- **Advantages:**
 - **No jQuery/Javascript (or less :-)**
 - **Optimisation of Seaside rendering: partial rendering on the server side**
 - **Remove unneeded callbacks from session state [WIP]**



- **Currently in alpha preview mode**
 - **API is not settled**
 - **E.g. WATurboFrame decoration vs WATurboFrameComponent subclass ?**
 - **Limitation: Turbo links with 'replace' rather than 'advance' action**
 - **Turbo Streams via Websockets [WIP]**
 - **Error handling needs improvements**

Thank you for listening!

Seaside Hotwired

Johan Brichau
johan@yesplan.be

