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In each layer of responsibility, modules know each other and the layer below



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#### In each layer of responsibility, modules know each other and the layer below



Your Application Modules

Framework Core

Framework Base

Cross-Browser Library



Browser JavaScript Engine



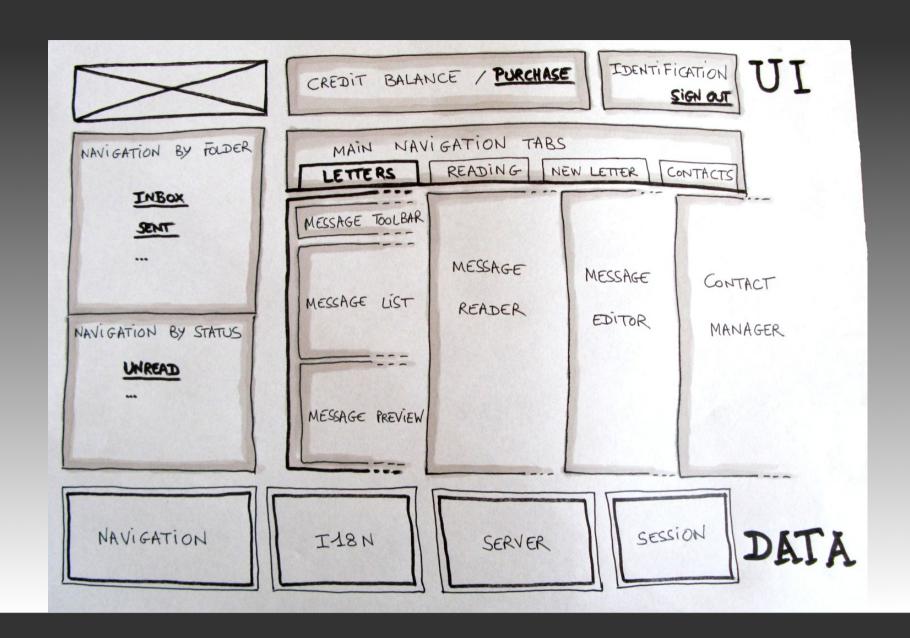








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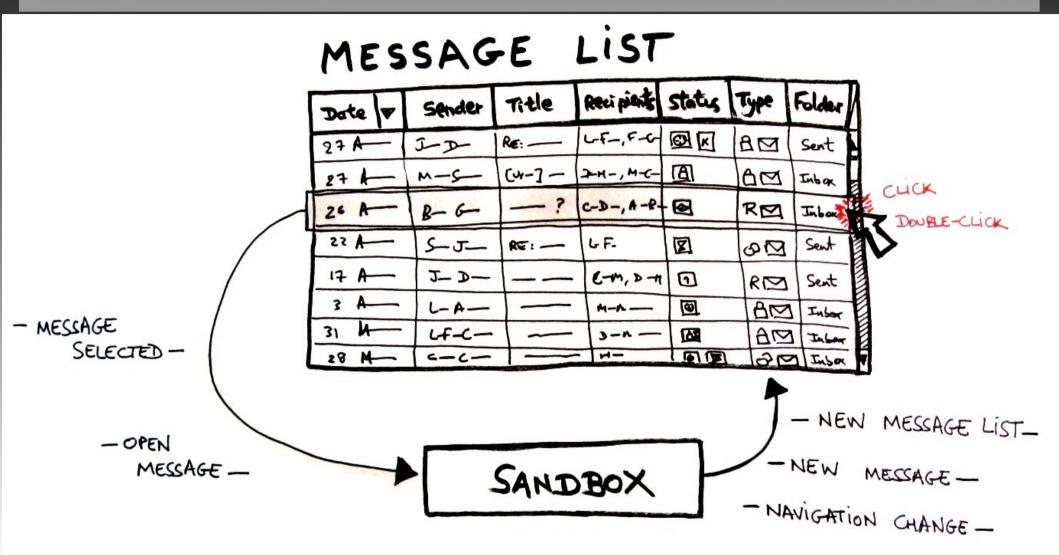


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Application modules don't talk to each other. They publish and subscribe to application events.

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# Application modules don't talk to each other. They publish and subscribe to application events.



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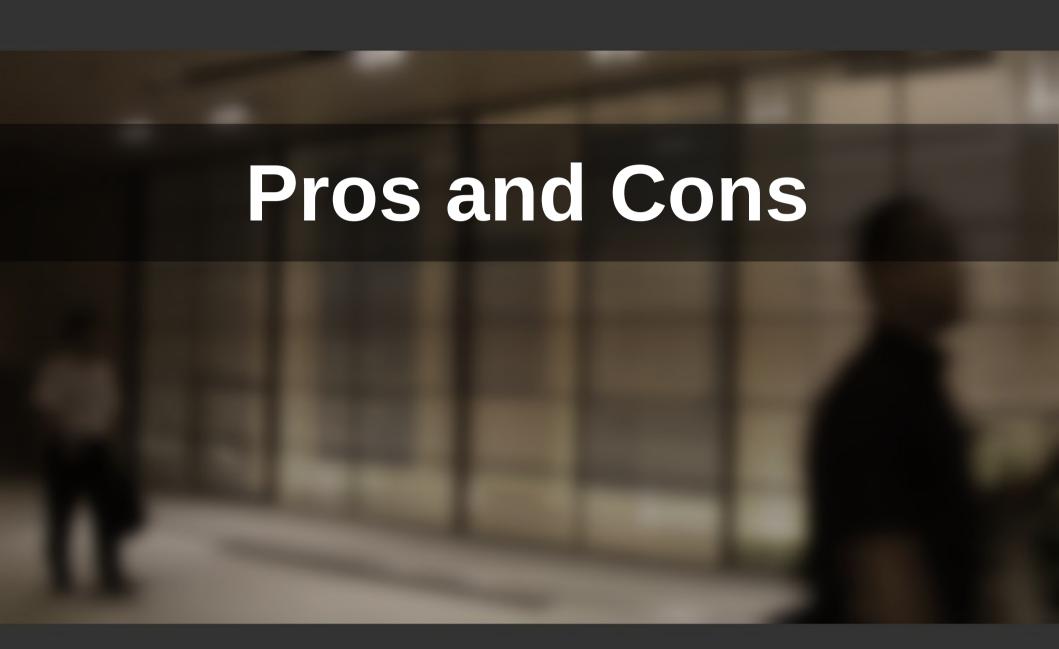


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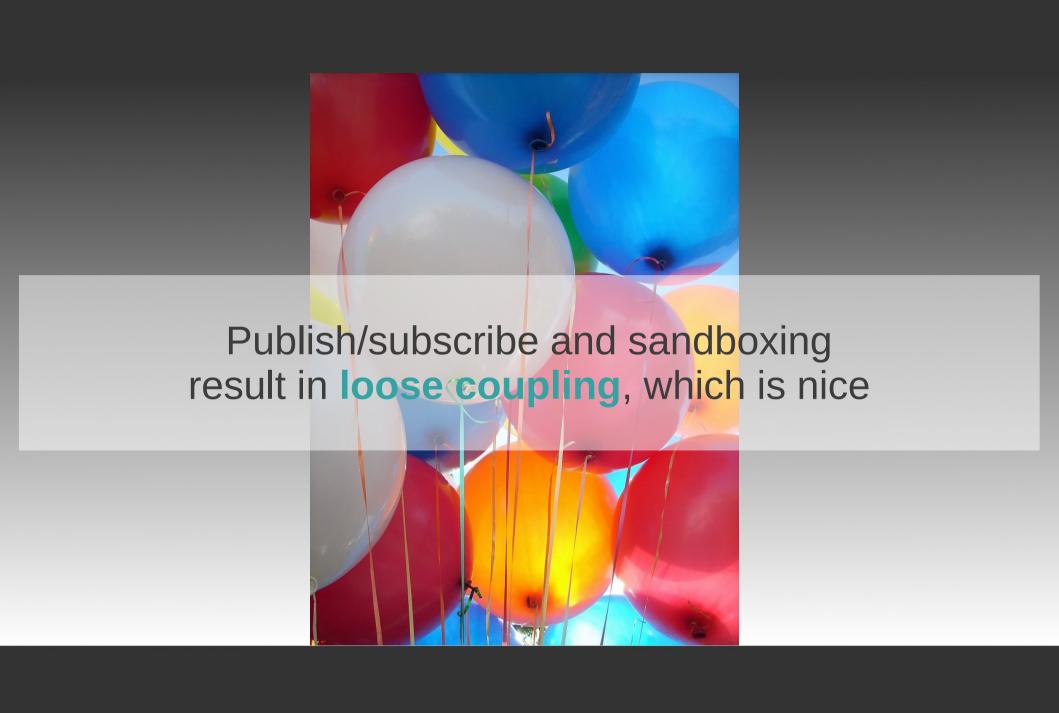
## Each application module works in **isolation** with its **sandbox**, oblivious to the outside



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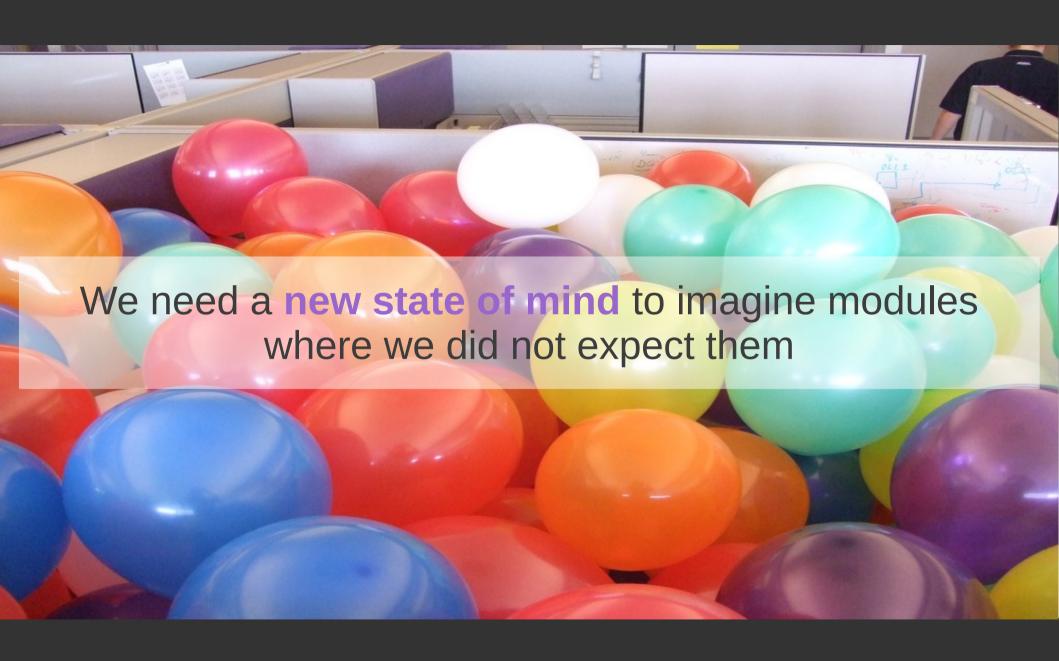
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```
B.ui.fileUploader.js + (~/www/lb js fileUploader/src) - VIM
 function onNewSession(event){$
   // Function: onNewSession(event)$
   // Callback for new session event.$
   // Store the user login and session identifier, needed to send gueries to$
      the remote server.$
      Parameter:$
     event - object, the event properties?
ication modules subscribed to the same events
       often end up with duplicate code for local
            state and accessors, which is sad
            sessionId: '...', // session identifier, e.g. 'WByLDysaTvjzwgXVt'$
        1 38
   setUserId(event.userId); $
   setSessionId(event.sessionId); $
lb.ui.fileUploader.js [+]
                                                            645,1
 // Module Creation$
 subscribe({topic:'session',type:'new'},onNewSession);$
lb.ui.fileUploader.js [+]
                                                            795,42
                                                                          95%
```

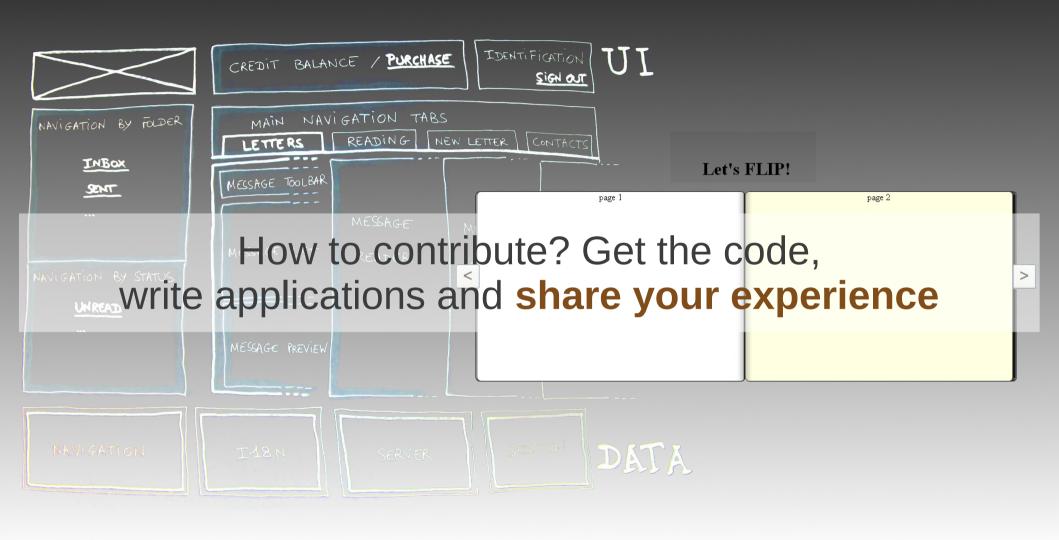
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#### How to Contribute?

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### How to contribute? Fork the project on GitHub and suggest improvements

https://github.com/legalbox/lb\_js\_scalableApp

Hint: JavaScript module loading

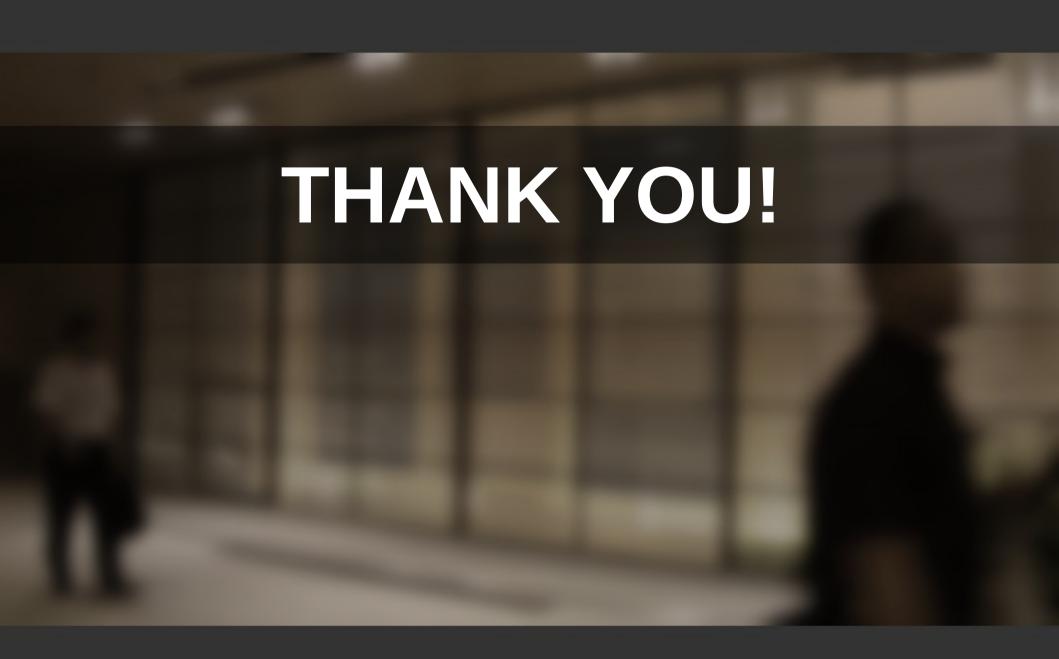
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### How to contribute? **Join Legal-Box**. We're hiring!



contact@legal-box.com

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#### References

- Scalable JavaScript Application Architecture by Nicholas C. Zakas
  - Video on Yahoo! Developer Network
  - Slides on Slideshare
- The Scalable JavaScript Application Framework by Legal-Box
  - Home Page on GitHub
  - Code on GitHub



#### **Credits**

- Slide Template
  - Adapted from "tokyo-midtown-1.otp"
     CC-BY-SA Chih-Hao Tsai
- Pictures
  - "Balloons" CC-BY befuddledsenses / Accretion Disc
  - "Make a wish..." CC-BY Theresa Thompson
  - "Skatechair" CC-BY-SA Max Braun
  - "Balloons make everything more fun"
     CC-BY Waponi / Kathryn Decker-Krauth
  - "Office Prank" CC-BY-SA disterics

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https://github.com/legalbox/introduction\_to\_lb\_js\_scalableApp