

Technology

Language:

- Java
- Javascript

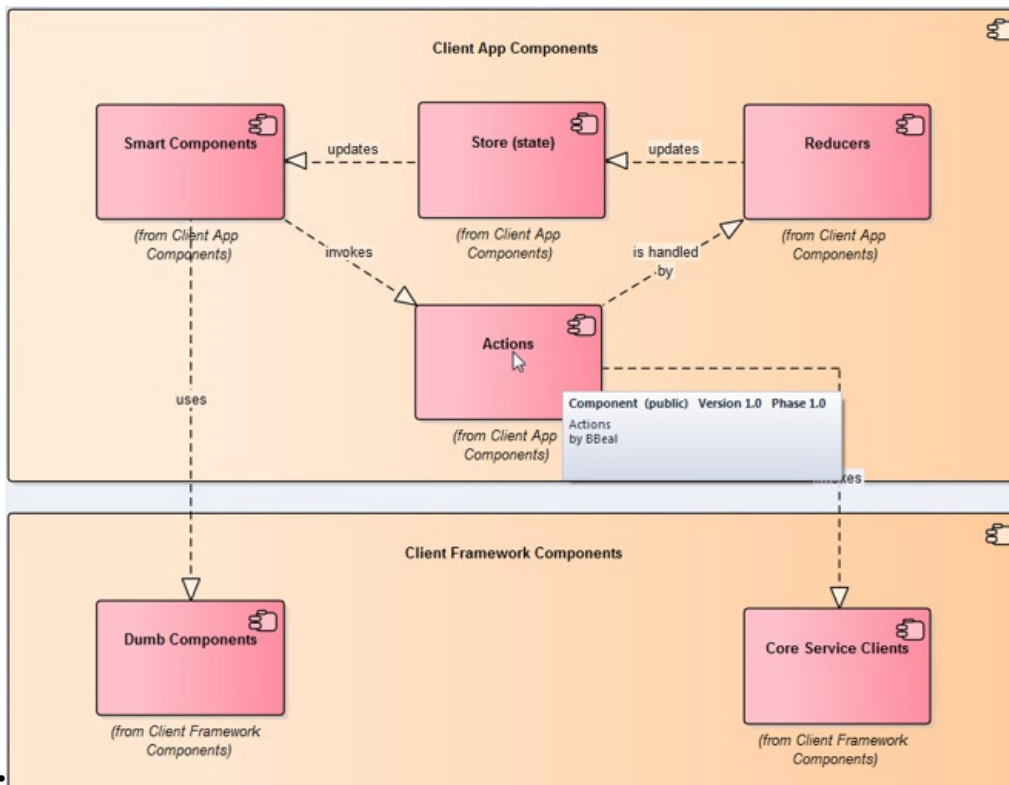
Backend:

- NodeJS / WebAPI
- MongoDB + GridFS
- ES
- Nginx
- DFS
- Docker
- Big data - Map-reduce (-)

Front-End:

- AngularJS/Angular2
- JQuery (-)
- D3 (-)

- Product Core is using WebAPI. But suggest to use WebSocket or similar technology (e.g. SocketIO) to set up the dual connection between client and server, meanwhile use message bus/queue to enable the communication.
 - WebSocket requires Windows 8/Win Server 2012 or higher version. Neither does it work with earlier version of IE.
 - Product uses local cache (Sinopia) server for 3rd parties but would like to have global server, too. It seems Taiji use some local cache, too.
 - Product supports Copy/Paste deployment, so far only do smoke test on continuous deployment
 - Product uses gulp for build, but WebPack may be a better choice especially for managing external modules
 - Product will drop JSPM since it's not keep updating and some functions are not properly defined
 - Brandt suggests for common web Uis like plots/gauges, using INT may not be necessary. But for domain display, like WellLog, etc, INT is a good choice, they have improved a lot recently. From Eric, we're setting up the communication channel with INT.
 - Product support latest IE and Chrome, with basic workflow support in Safari. Most of the users will use Chrome though it is not SLB IT standard yet.
 - Product uses immutable model (Flux=>Redux/Rx? Wrappers in ng include ngrx, ng-redux, ng2-redux), and model is stored as state tree which is very easy to restore.
 - Product uses Redux on client side to store the model(state), Smart components updates according to the stated model.
- Angular2 is used inside SmartComponent.



- Product is hosted in IIS, which provides functions like DOS which are not available in self-hosted. Another approach is to use NGINX.
- Both client and server are deployed on the same machine. Need config IIS after installing kit, web server is always on
- Product this year will try to adapt Angular2 + Redux, and integration them with WebWorker to achieve better performance. See roblog.io.