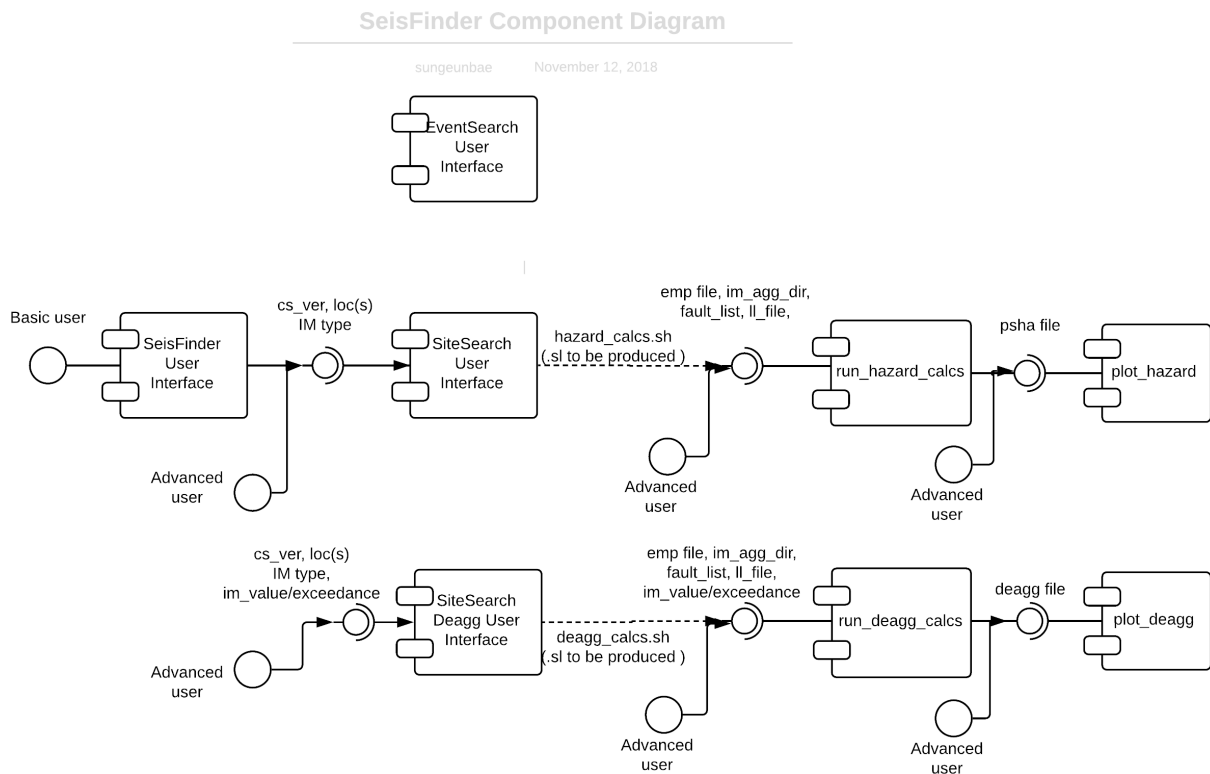


**SiteSearch: Unify hazard/Deagg/GM selection**

# Background



## Summaries

Reading from CSVs took 6.5sec for each set of (loc, IM type)

Reading from IMDB also takes 6.5sec for each set of (loc, IM type) for adding the data to the column. **BUT** if user varies IM level, it only takes 1 sec.

Calculation of Hazard and Deagg is streamlined, and it submits the auto-generated slurm scripts.

## Story / Deliverable

When calculating deagg with IM type, location and cs\_ver, varying IM\_level or exceedance should not force the program to re-read raw IM agg data and process them.

When calculating GM selection, user should be able to use the same set of parameters as deagg calculation

Streamline hazard/deagg calculation steps

## Tasks/Progress

			Who	Status	Deliverables
(1)	Precompute SQLite db for all IM_agg data	1 day	Viktor	Done	
(2)	Develop an API that outputs all IMs in a numpy array for given IM type, station name	1 day	Viktor	Done	
(3)	Update setup process to do step (1) automatically.	1 day	Sung	Done	
(4)	Fix hazard to use the API from (2)	1 day	Sung	Done	
(5)	Fix deagg to use the API from (2)	1 day	Sung	Done	
(6)	Write site_search_gm_sel.py that mimics the interface of site_search_deagg.py	1 day	Viktor	Done(to be revisited)	
(7)	Automatically generate sl scripts and submit for hazard/deagg calc	2 days	Sung	Done	

## Known Issues / To Dos

1. Fault screening based on user specified loc vs. simulation domain is no longer necessary as the API from (2) does all the filtering already.