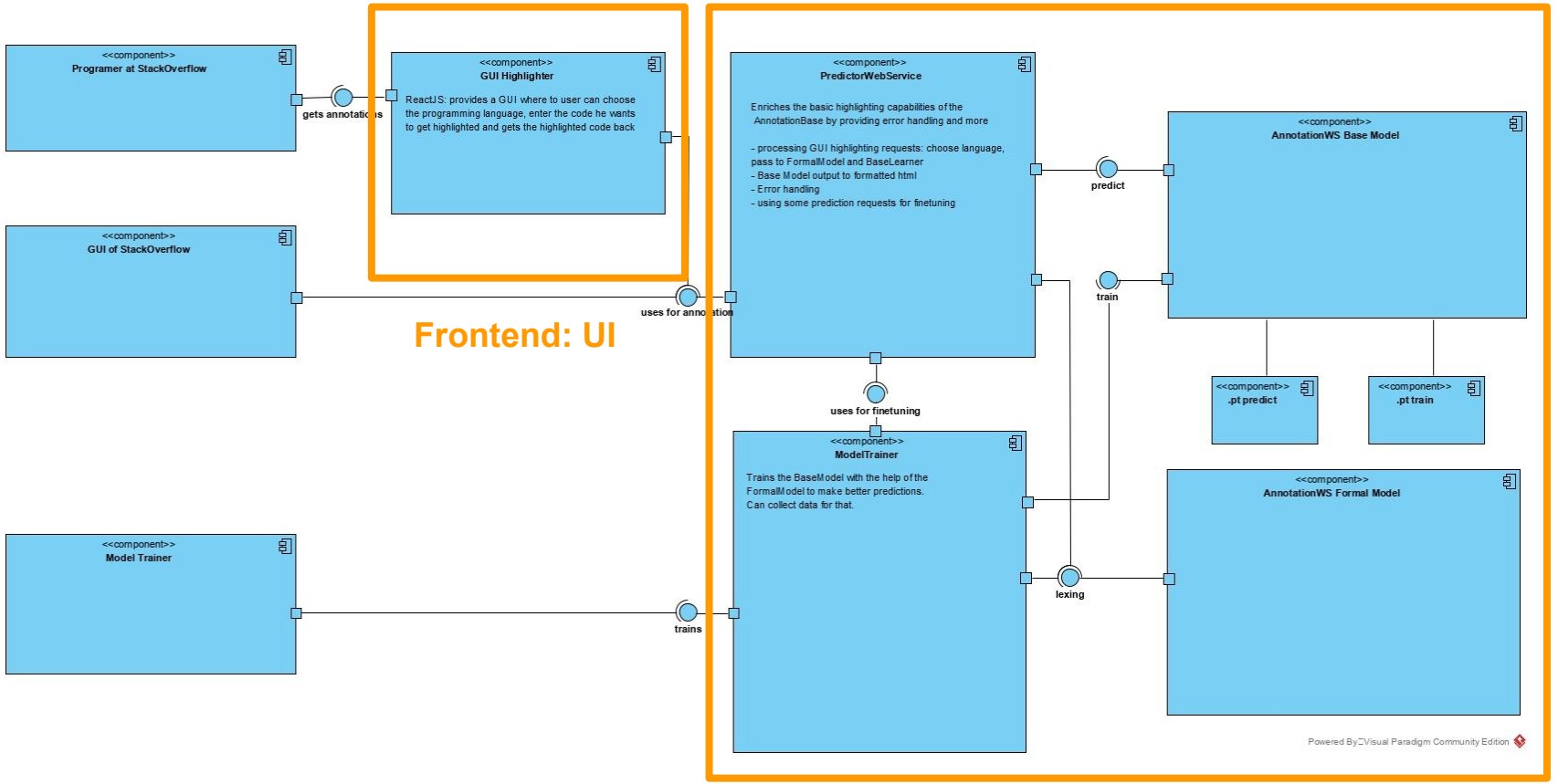
Option A: 2 Container

Backend: Provides Highlighting



Option A: 2 Container

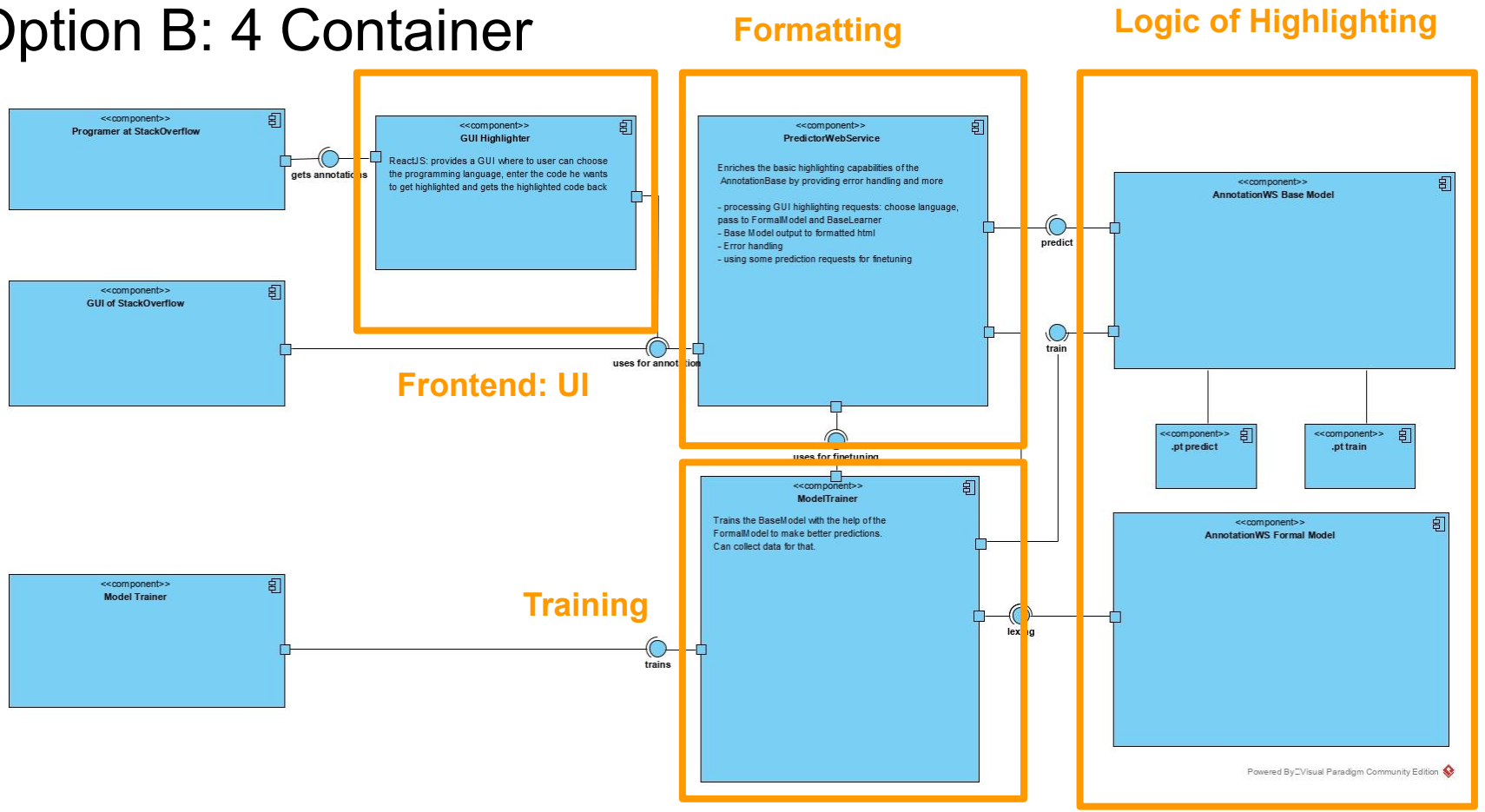
Pros:

- low complexity
- most of our code can be reused (no new APIs)
- Decoupling given via function calls
- fast communication between classes since communication via command line (has to be verified)

Cons:

- Container rebuilding is slow (Tensorflow)
- size of Container
- maybe more difficult to scale since container is bigger

Option B: 4 Container



Option B: 4 Container

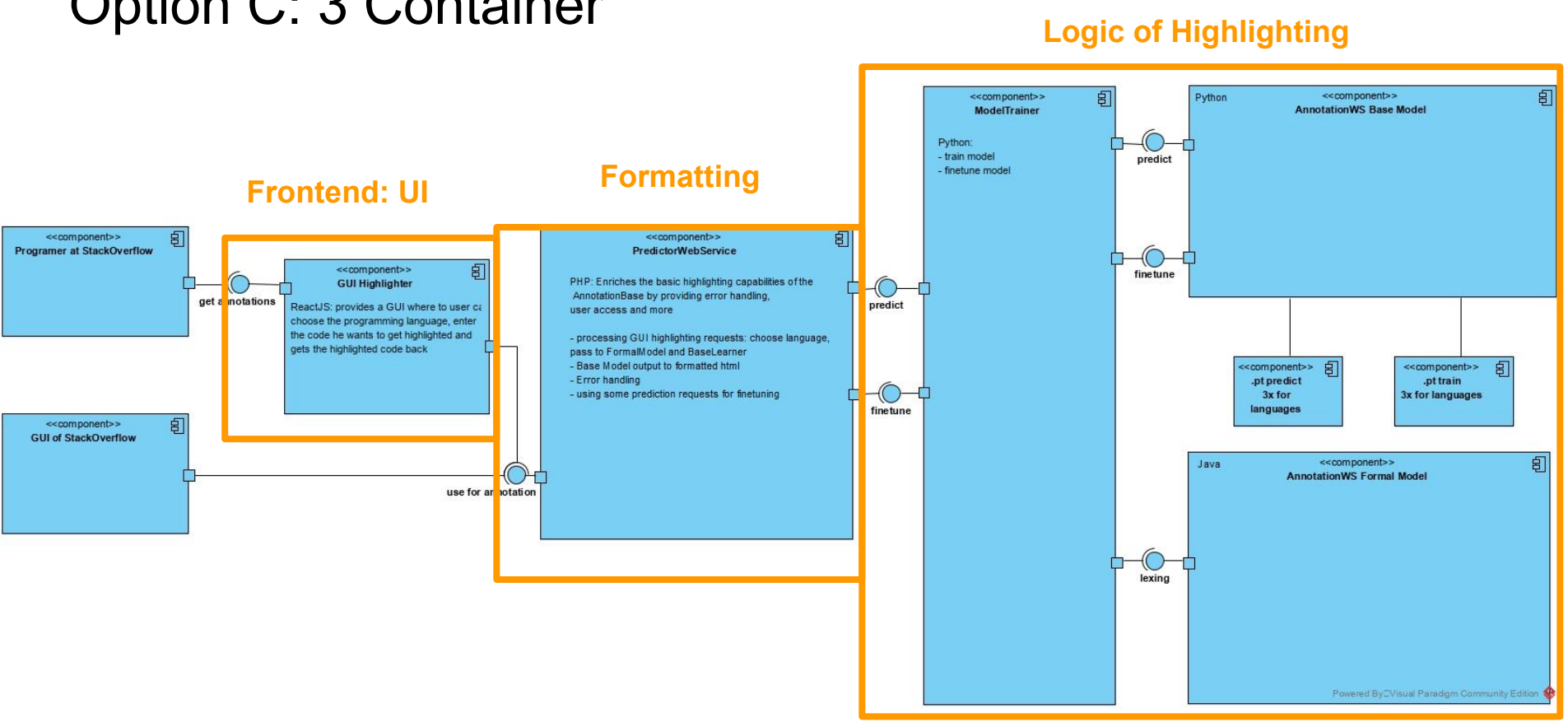
Pros:

- When people are working on the training and prediction components, they do not have to run the very big Logic of Highlighting Component on their local machine but can rather use the one deployed on AWS
- Maybe better scalability

Cons:

- Introduction of many APIs -> very big overhead for the actual purpose of our application?
- A lot of rewriting to create the APIs
- maybe slower since prediction traffic is passed over multiple containers

Option C: 3 Container



Option C: 3 Container

Pros:

- medium complexity
- one functionality per container

Cons:

- communication speed?
- Flask API needs to be written

Decision: Option C

Reasoning:

- Adding Flask API is reasonable amount of work
- in future sprints, we will add more logic into PHP component -> very helpful to have it independent from baseLearner because of its size