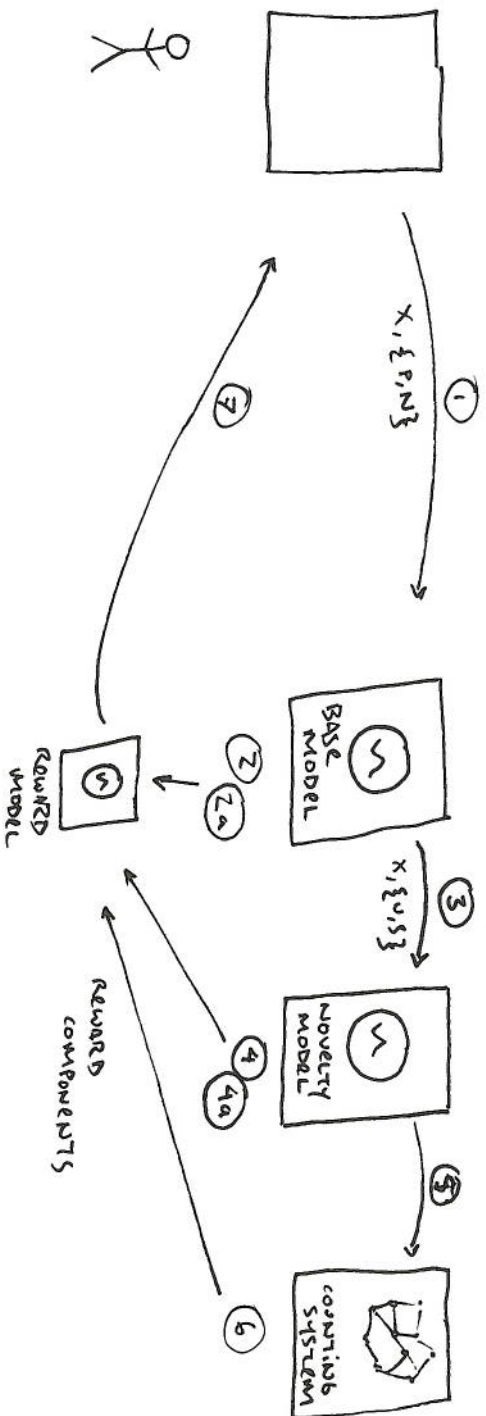


BTM USER INTERFACE

BACK-END



- ① user submits {url, category, classification}
- ② compute predicted classification for submission, generate "surprise score" (2a) (optional) incorporate new probe's info via a
- ③ base model re-labels probe url based on success of BTM
- ④ meta "novelty" model predicts {successful, unsuccessful} for current probe generate novelty score → (4a) update model, incorporate new info
- ⑤ generate explanation of why successful probe is successful build query based on this explain, pass to next component
- ⑥ using a search engine API, estimate relevance of this kind of mistake on the web compute frequency score
- ⑦ some component computes total reward from components, returns to user API