```clojure
(defn created-by-details [{:keys [name email]
                           :or {name "Unknown" email "Unknown"}}]
  {:createdByName name :createdByEmail email})

(defn with-metadata! [metadata-service doc]
  (when doc
    (let [creator (user-by-id metadata-service (:created-by doc))
          updater (user-by-id metadata-service (:last-modified-by doc))]
      (merge doc
             (created-by-details creator)
             (updated-by-details updater)))))
```

ardoq

from java to process