**Observer pattern**

***Code Snippet***

Uma imagem com texto

Descrição gerada automaticamente

This pattern is caracterized by mantaining a list of observers and notify them, thus update them of any change of state.

**Code location**

IndexUpdateListener class, encapsulated in the LibratyTab class

Uma imagem com texto

Descrição gerada automaticamente

**Justification**

The observer pattern is being utilized beacuse the methods listen(EntriesAddedEvent addedEntryEvent) and listen(EntriesRemovedEvent removedEntriesEvent) update each one of their observers when occurs a change of state, in this case is being represented as an insertion or removal of an entry.