# Assignment 06(Project)

### Bear Feed

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## 1 OBJECT CONSTRAINT LANGUAGE(OCL)

#### 1.1 UserInterestList Constraint:

- **Description:** It has to be a registered user and for all the tags which a user interests, they have to relate to at least one article.
- context User

inv: interestList  $\rightarrow forAll(e|e.belong \rightarrow size() > 0)$ 

#### 1.2 DeleteComment Constraint:

- Constraint: Only a logged in user can delete a comment and that comment has to exist and created by the user.
- **Description:** If user wants to delete a comment, user can click on the delete button in the comment section and the comment will be deleted.
- context User :: deleteComment(commentID : Long)
  pre: self.loginState=#Logged and self.comment() → exists(commentID = e.id)

### 1.3 LikeCount Constraint:

- Constraint: Only a logged in user can like an article.
- **Description:** If user wants to like an article, user clicks on the like button and the like count number of that article will be increased by 1.
- **context** User :: addToLikes(articleID : Long, userID : Long) **pre:** self.loginState=#Logged let article = findByID(articleID)

**post:** article.likeCount = article.likeCount @ pre+1 and likes  $\rightarrow append(article)$