SDM HW2 - Design Document

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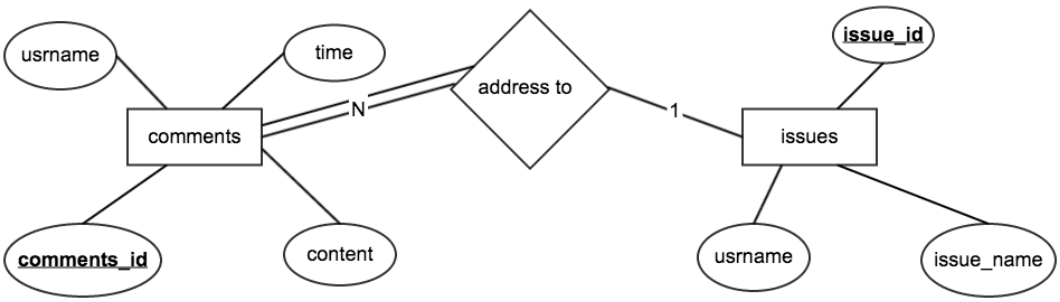
I. Database Overview

ER - Diagram



Relational Schema

Comments

comments_id	content	usrname	time	issue_id

Issues

issue_id	issue_name	usrname

- *Issues* stores all the issues that have been raised so far with an unique *issue_id*. The topic of an issue is stored as *issue_name*, and the user who creates the issue as *usrname*.
- *Comments* stores all the comments addressing each issue with an unique *comments_id*. The content of a comment is stored as *content*, *usrname* is the user who posts the comment, and timestamp is also stored in *time*.
- Since an issue may have more than one comment, *issue_id* should be added in table *Comments* for addressing a particular issue.

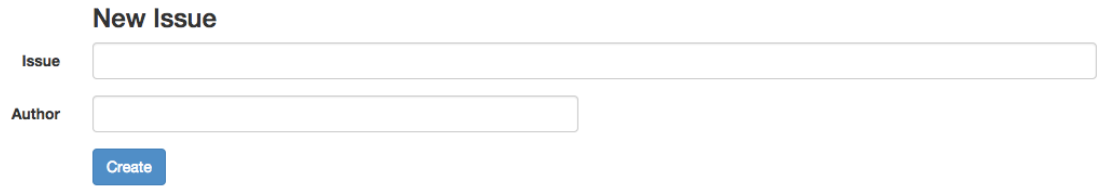
II. Rationale of the Design

- Description:

  System backend is written in php to add or extract value from the database. System frontend is written in angularJS to handle http request and to dynamically display the web page.

- Create a new issue:

  User types in the issue to raise and a name he/she wish to display.



Then, a post request with issue name, user name, and an issue_id(specified as the largest issue_id in the database plus one) is sent. A php program handles this post request and insert the value into *Issues* in the database.

- Display issues:

The system sends a get request to retrieve values from database when main page is loaded.

All issues that have been raised so far and the person that creates the issue will be display at the main page. Users can click on the issue name to add or view comments to this issue.

- Add comments to an issue:

Adding a comment is done in a similar rationale as creating a new issue. All comments associate with this issue and the newly add comment is displayed below.