CSC309 Data Model

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Schema

- User(<u>uID</u>, username, password, name, email, avatar, phoneNumber, role)

- CodeTemplate(<u>ctID</u>, uID, title, explanation, code, forkID, private) The forkID is the ctID of the original template, null if the template is not forked. **Integrity Constraints:**

    - CodeTemplate[uID] $\subseteq$ User[uID]
    - CodeTemplate[forkID] $\subseteq$ CodeTemplate[ctID]

- Blog(<u>bID</u>, uID, title, content, up, down, flags, difference, absDifference, hide) **Integrity Constraints:**

    - Blog[uID] $\subseteq$ User[uID]

- BlogRating(<u>brID</u>, <u>uID, bID</u>, upvote, downvote) **Integrity Constraints:**

    - BlogRating[uID] $\subseteq$ User[uID]
    - BlogRating[bID] $\subseteq$ Blog[bID]

- CommentRating(<u>crID</u>, <u>uID, bID</u>, upvote, downvote) **Integrity Constraints:**

    - CommentRating[uID] $\subseteq$ User[uID]
    - CommentRating[bID] $\subseteq$ Blog[bID]

- ContentReport(<u>contentRID</u>, uID, bID, cID, reason) **Integrity Constraints:**

    - contentRID[uID] $\subseteq$ User[uID]
    - contentRID[bID] $\subseteq$ Blog[bID]
    - contentRID[cID] $\subseteq$ Comment[cID]

- Comment(<u>cID</u>, bID, uID, up, down, content, difference, absDifference, hide, parentCommentID, childComments) **Integrity Constraints:**

    - Comment[uID] $\subseteq$ User[uID]
    - Comment[bID] $\subseteq$ Blog[bID]
    - Comment[parentCommentID] $\subseteq$ Comment[cID]
    - Comment[childComments] $\subseteq$ Comment[cID]

- Tag(<u>tID</u>, bID, ctID, tag) **Integrity Constraints:**

    - Tag[ctID] $\subseteq$ CodeTemplate[ctID]
    - Tag[bID] $\subseteq$ Blog[bID]