Final Project

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A GoogleAppEngine App that allows you to create/vote on items in categories

Files:

- Models/Handlers:
    - app.py
- Templates:
    - index.html
    - edit.html
    - new.html
    - results.html
    - vote.html
    - export.xml
- Stylesheets:
    - stylesheets/bootstrap.css
- Config:
    - app.yaml
    - index.yaml

Models:

- Category
    - author: String
    - name: String
    - date: DateTime
- Item
    - content: String (name of item)
    - category: Category
    - votes: int
    - losses: int
    - percent_win: int

A Category has many fields.

An Item has a Category.

Controllers/Templates:

- MainPage
    - lists all the categories
    - renders index.html
    - gives the following options for each category listed:
        - Edit, Vote, Results, Delete, Export
- Create
    - creates a new Category
    - renders new.html
    - user either enters a new category name + item or imports a .xml file
    - redirects to MainPage when Category has been created
- Edit
    - edits a Category
    - renders edit.html
    - user can add items, remove items, or import a .xml file to add new items/replace items of the category
    - will throw an error if user tries to Edit a Category he/she has not authored
    - will throw an exception if imported category file has a different category name
- Delete
    - deletes an Item or a Category by its id
    - will throw an error if user tries to delete a category/item he/she has not authored
- Vote
    - votes on a Category Item
    - renders vote.html
    - any user can vote on any item
    - user is presented with 2 random items from the chosen category
    - user can vote or skip
    - shows win/losses of both items after the vote
    - Item.win_percent is recalculated at the end of each vote and saved
- AllResults
    - shows all results for all categories
    - renders results.html
- Results
    - shows results for the given category
    - renders results.html
    - shows item, wins, losses, percent win
- Export
    - exports a Category to a .xml file
    - renders export.xml

Users:

You must have a google account to Log in. You can create a category as an anonymous user, but you cannot edit it.

Extra Features:

- Users can delete items in a category. If a user imports a Category to an existing category, the duplicated items will be deleted and replaced with the new items of the same name.
- All category leaderboard