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Bracket 8

Account

Get User ()

- It will get current user and check whether the user exists or not in the data store.
  - If the user exist then allows the user to login.
- If the user does not exist then it will add a record to the Data store and redirected to account.
- In this method it will send the login URL, login text and current user.

AddAnagramPage

Get ()

- It displays anagram and add anagram UI.

Post ()

- It will generate the anagram key using email and alphabetical order of word.
- It will check with the Data store whether the anagram exists or not.
- If anagram doesn't exist new anagram record will be created.
- Then user table is also updated with anagram count and word count by one.
- If anagram key exists, then the existed anagram will be appended to anagram word list.
- Then the count of anagrams is increased by one.

Main Page

Get ()

- Show the homepage for guest users
- If the user already logged in a welcome page and search anagram section will be shown
- Current user is sent to show the count of words and anagrams
- Search anagrams form will also be sown for logged users

Post ()

- Validate the input for invalid characters.
- Generate the key using word and the current user.
- Check the search query against the Data store.
- If result fount, it will be shown on the homepage.
- If empty results came, an error will be shown.

SubAnagramPage

Get ()

- It displays the sub anagram view with a form.

Post ()

- It will get the word.
- It will get the word and generate the combinations for the word, and then it will generate the key for those words then check in database for all combinations.
- Then the founded combination will append to list.
- Then it will pass it to sub anagram view. If not show the error.

PhotoUploadHandler

Get ()

- It display sub anagram page.
- Create upload URL using blog store and pass it to view.

Post ()

- It will get the file content from the blog store.
- File will be read by line by line. It will be separated using lexicographical order of word and will check against the database.
- In this method the user entity is also updated.
- In the user table limit by anagram count and word count will be 1.
- It will check whether the word exists in anagram list or not.
- If it is not there then it will append to the anagram words otherwise it will be ignored.
- If the key of a particular word is not found a new record will be added and user table also updated word count by one.

Bracket 9

Two models have been generated they are user model and User model. Anagram model has entities in the Data store.

User model

- It stores the user information.
- In this model, email id is unique for all the users so, the email that we entered is considered as a key for all entities and it will be added to the string property.
- In this model count of anagram and count of words are added and taken as integer property and they will incremented when we add a new word.

Anagram model

- It stores the Anagrams and words.
- In this model by combining email and word the anagram key will be generated.
- Anagram words contain letters, so it is considered as a string property.
- Anagram count and letter count contains only numbers so they considered as integer properties.

Bracket 10

- UI consideration
  - At the top of every page the main navigation has been located in the header.
- Forms

    - Labels have been placed beside each other for every HTML component.
- Colors
    - Color scheme was chosen to make the site look nice. To give high contrast for visually impaired.
- Messages
    - Green color was used to show the function heading.
    - Yellow color was used to show the warning message.

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