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HW 10: Da Art of Storytellin'

Pages:

1. **Home**: root page
    a. If not logged in: show Login / Register page
        i. **Login**: Login to account
        ii. **Register**: Make a new account
    b. If logged in: redirect to Feed
2. **Feed**: stories you haven't contributed to (uses Jinja templating)
    a. Can sort stories by
        i. Time of creation (default)
        ii. Time of last edit
        iii. Title
3. **History**: stories you have contributed to (uses Jinja templating)
    a. Can sort by
        i. Time of creation
        ii. Time of last edit
        iii. Time of user's edit (default)
        iv. Title
    b. Can search for story by title
4. **Contribute**: contribute to a story (uses Jinja templating)
5. **Create**: start your own story

Back-end python processing files:

1. **app.py**
    a. uses Flask and templates
    b. holds all the routes
    c. uses **user account manager** for **Login** and **Register**
    d. uses **database manager** for **Create**, **Contribute**, **Feed**, and **History**
    e. uses templates to format output
2. **database initializer**
    a. only run once
    b. creates database and its tables
3. **user account manager** (inside utils/)
    a. uses SQLite commands in python to:
        i. insert data into tables
            1. **Register**: insert account into user table
        ii. fetch data from the tables
            1. **Register**: make sure username not used
            2. **Login**: authenticate credentials

    b. authenticate logins
    c. create new accounts
4. **database manager** (inside utils/)
    a. uses SQLite commands in python to:
        i. insert entries to the tables
            1. **Create**: insert story into stories table
            2. **Contribute**: insert record of edit into edit_logs table
        ii. edit existing entries in the tables
            1. **Contribute**: edit story in stories table
        iii. fetch data from the tables
            1. **Feed**: pull last edit of stories user has not contributed to
                a. looks at edit_logs table to see which stories the user has contributed to
                b. pulled stories can be sorted by time of creation, time of last edit, or title
            2. **History**: pull full stories user has contributed to
                a. looks at edit_logs table to see which stories the user has contributed to
                b. pulled stories can be sorted by time of creation, time of last edit, time of user's edit, or title
                c. for search bar: pulls stories where title matches search query
            3. **Contribute**: pull last edit of the story the user is contributing to

1 SQLite database, with 3 tables:

1. **Users**. Each record includes:
    a. username
    b. hashed password
    c. unique user id
2. **Stories**. Each record includes:
    a. title
    b. full story (including last edit)
    c. last edit to story
    d. time of original creation
    e. time of last edit
    f. unique post id
3. **Edit Logs**. Each record includes:
    a. user id
    b. post id
    c. time of contribution

Role delegation:

Haley – project manager
Anya – coding account manager
– coding routes and templates for Login and Register
Bayle – coding initialize database and database manager
Jack – coding routes and templates for Feed, History, Create, Edit

Database Schema:

Time values stored as INTEGER – seconds since 1970-01-01 00:00:00 UTC

edit_logs

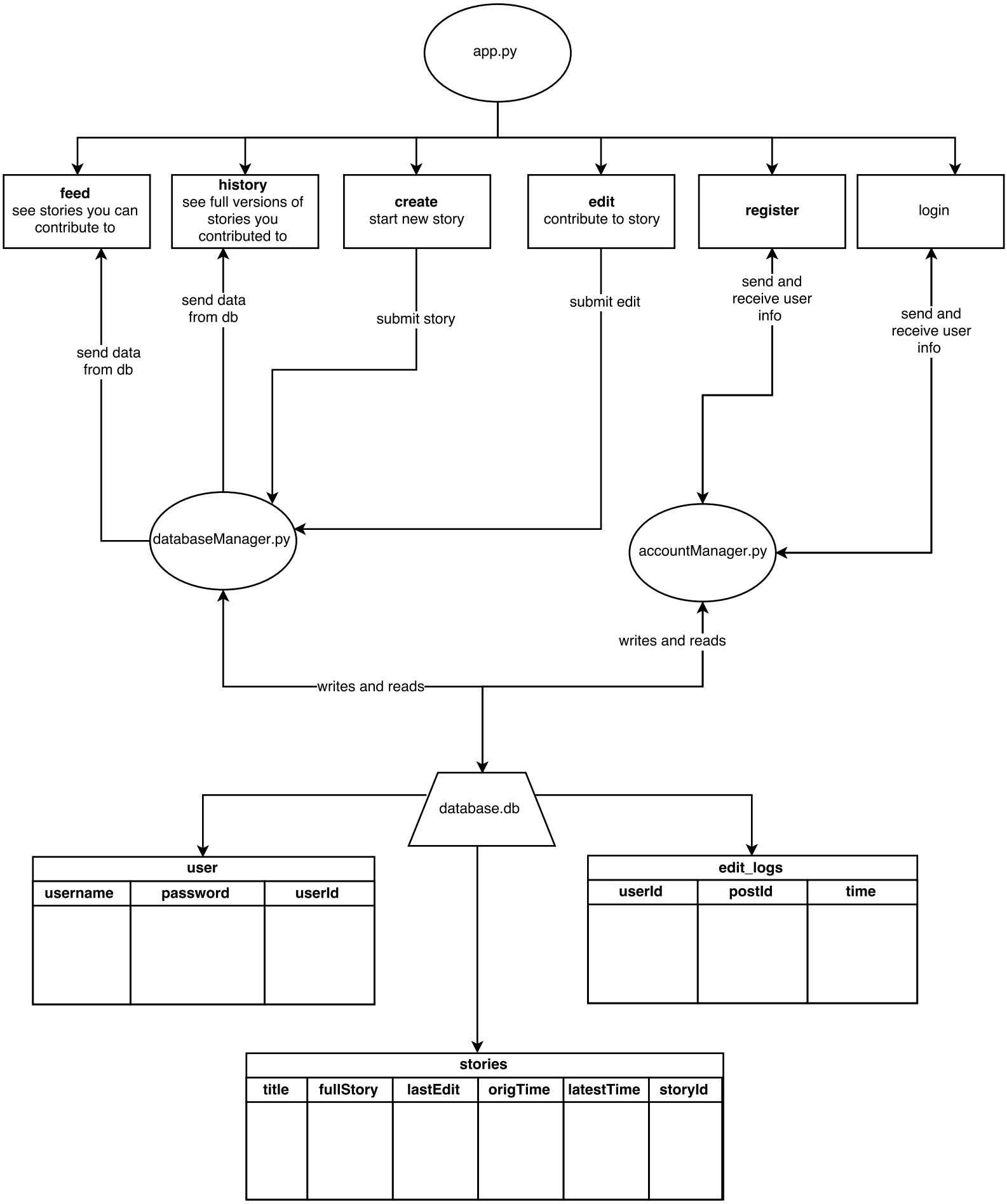
INTEGER	INTEGER	INTEGER
user ID	story ID	contribution time

users

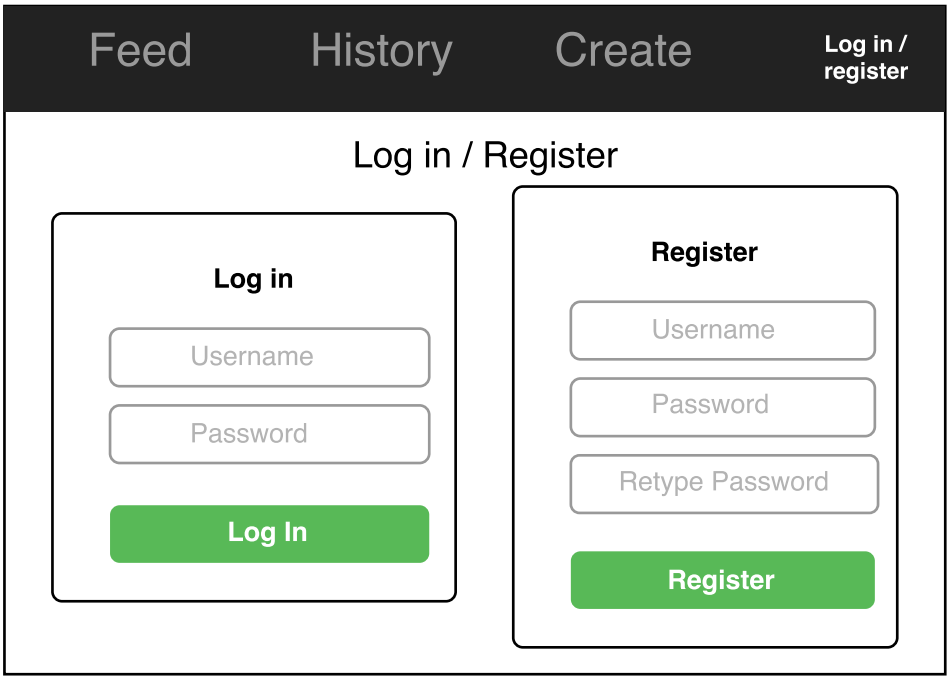
TEXT	TEXT	INTEGER
username	password	user ID

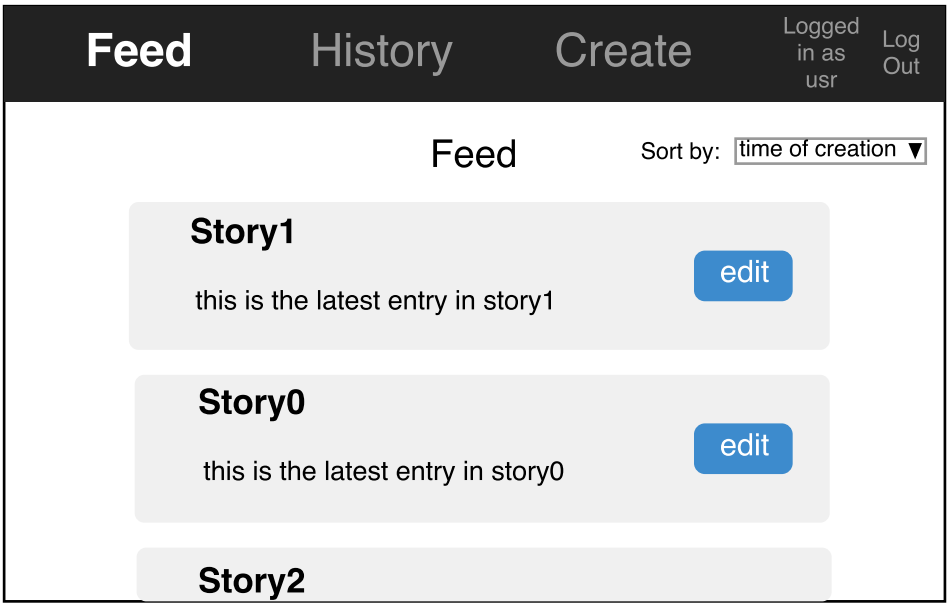
stories

TEXT	TEXT	TEXT	INTEGER	INTEGER	INTEGER
title	full text	last edit	original creation time	latest update time	story ID

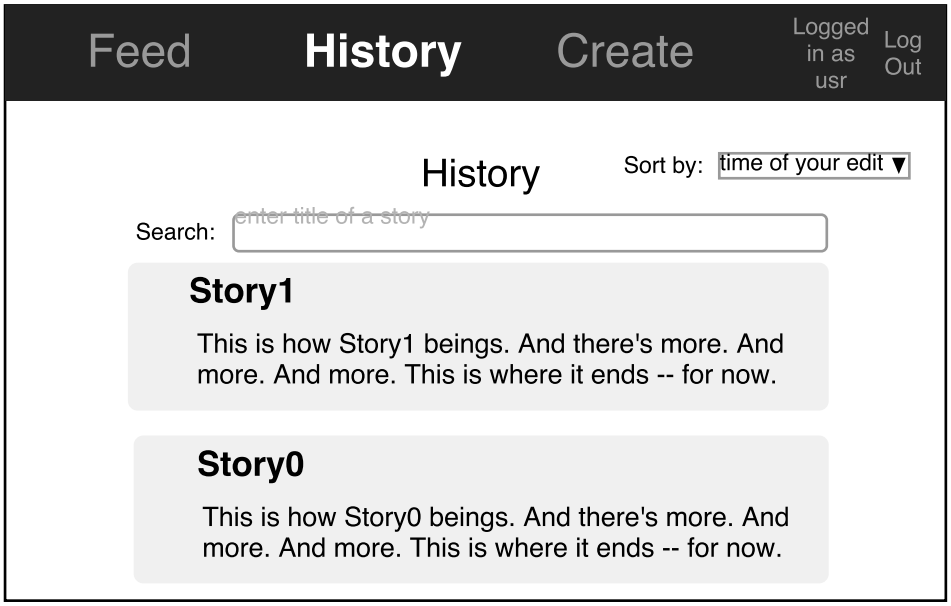

app.py
feed
see stories you can contribute to
history
see full versions of stories you contributed to
create
start new story
edit
contribute to story
register
login
send data from db
send data from db
submit story
submit edit
send and receive user info
send and receive user info
databaseManager.py
accountManager.py
writes and reads
writes and reads
database.db
user
username
password
userId
edit_logs
userId
postId
time
stories
title
fullStory
lastEdit
origTime
latestTime
storyId

Front End

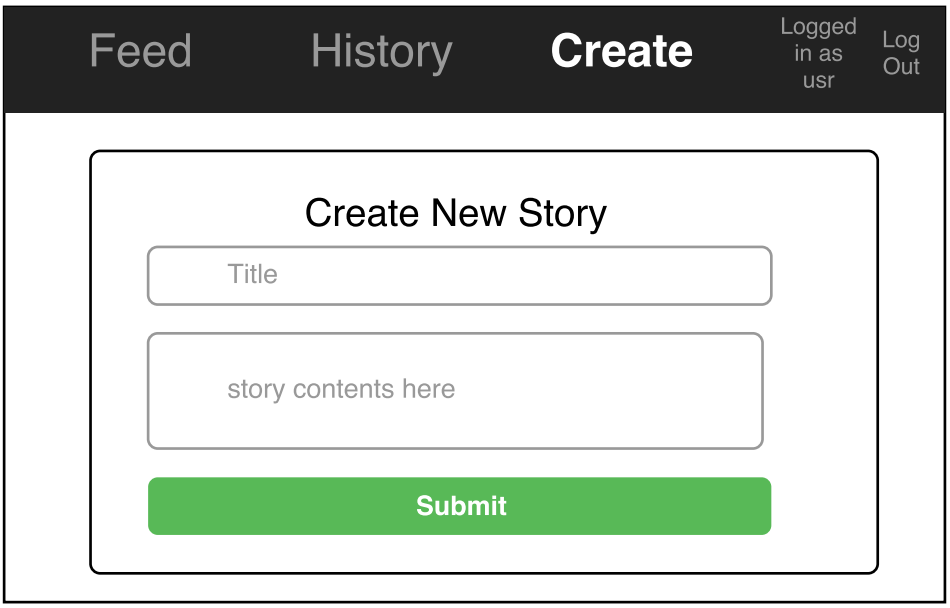


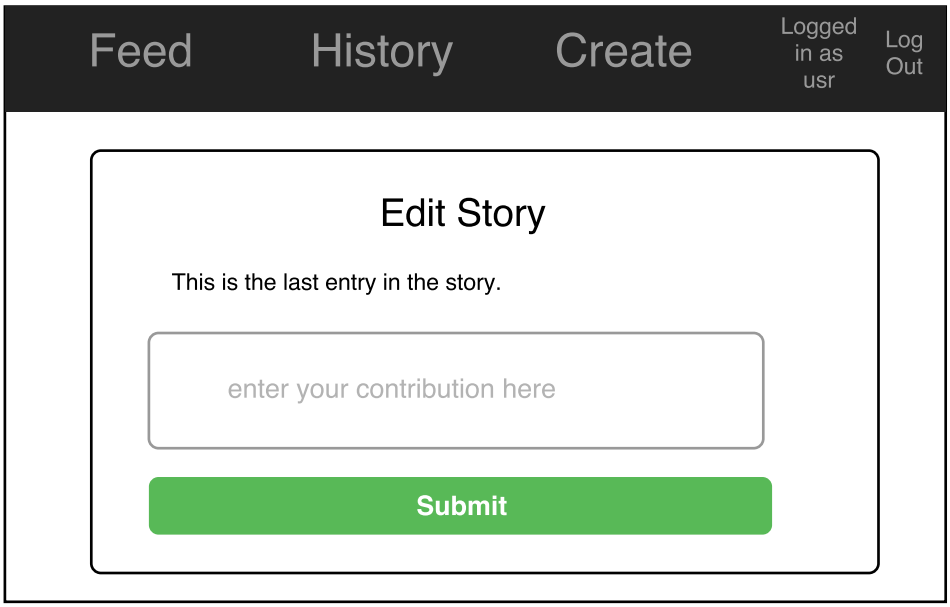


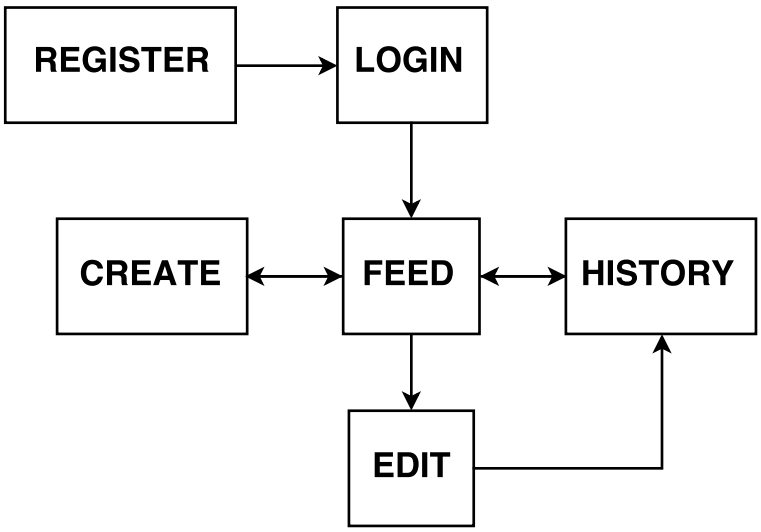
posts that you haven't contributed to



posts that you have contributed to


Feed
History
Create
Logged in as usr
Log Out
Create New Story
Title
story contents here
Submit


Feed
History
Create
Logged in as usr
Log Out
Edit Story
This is the last entry in the story.
enter your contribution here
Submit


REGISTER
LOGIN
CREATE
FEED
HISTORY
EDIT