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HW 10: Da Art of Storytelling

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. **Register**: insert account into user table
 - 2. **Create**: insert story into stories table
 - 3. **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. **Register**: make sure username not used
 - 2. **Login**: authenticate credentials
 - 3. **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
 - 4. **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
 - 5. **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

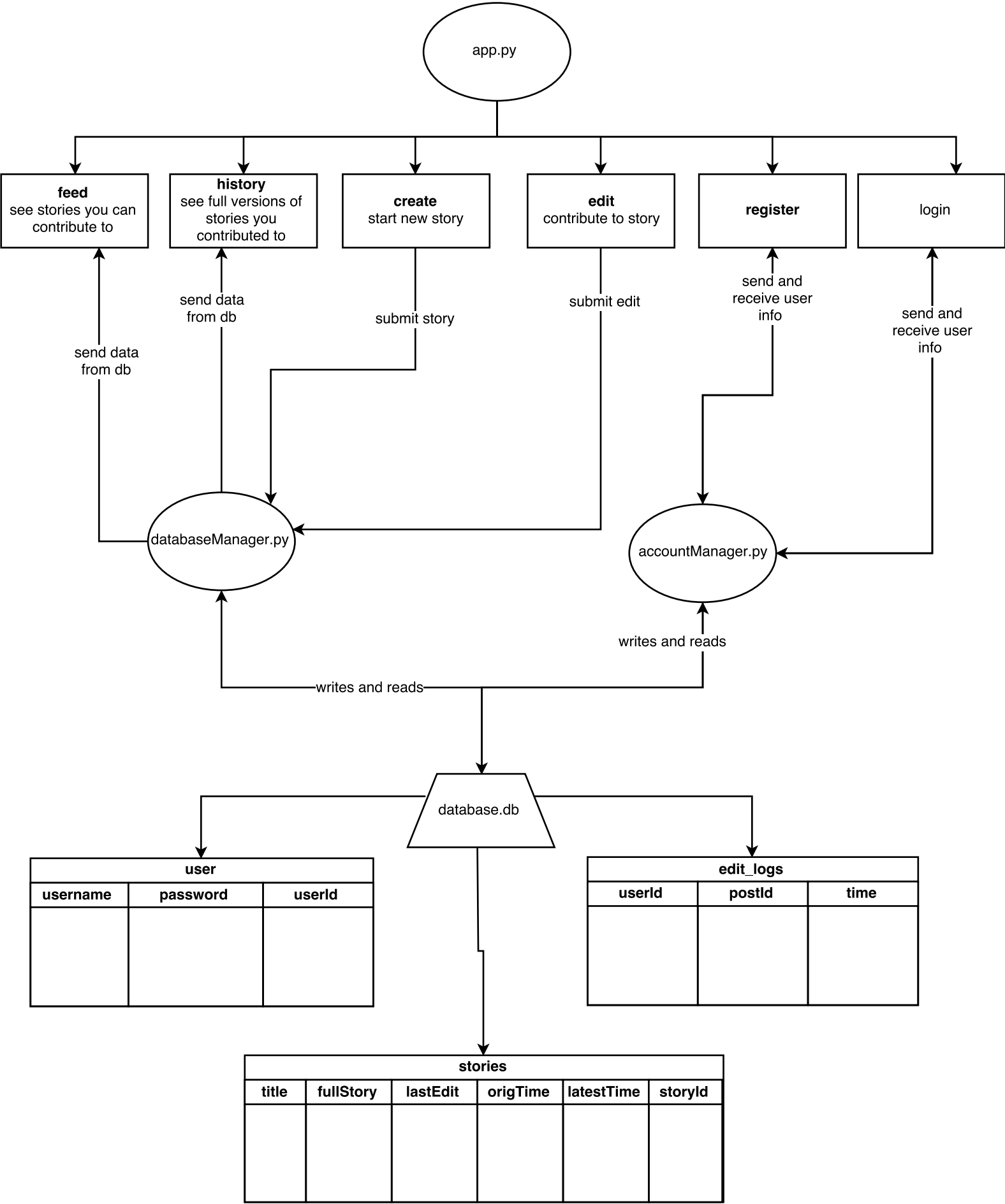
INTEGER	INTEGER	INTEGER
user ID	story ID	contribution time

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



Front End

[Feed](#) [History](#) [Create](#) [Log in / register](#)

Log in / Register

Log in

Log In

Register

Register

[Feed](#) [History](#) [Create](#)

Logged in as [usr](#) [Log Out](#)

Feed Sort by: [time of creation ▼](#)

Story1

this is the latest entry in story1

edit

Story0

this is the latest entry in story0

edit

Story2

posts that you haven't contributed to

[Feed](#) [History](#) [Create](#)

Logged in as [usr](#) [Log Out](#)

History Sort by: [time of your edit ▼](#)

Search:

Story1

This is how Story1 beings. And there's more. And more. And more. This is where it ends -- for now.

Story0

This is how Story0 beings. And there's more. And more. And more. This is where it ends -- for now.

posts that you have contributed to

FeedHistoryCreate

Logged in as usrLog Out

Create New Story

Title

story contents here

Submit

FeedHistoryCreate

Logged in as usrLog Out

Edit Story

This is the last entry in the story.

enter your contribution here

Submit

