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SoftDev1 pd1
Task the first — The Plan
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Selected scenario: Web Log

Front-end Feature Listing *(minimum viable product features are indicated by *)*

| Features only for users logged in; anything logged-out users get is the login/registration page **|**

Account-local
- Account creation with encrypted password*
- Create blogs*
- Create or edit entries within own blogs*
  - View edit histories for own blogs*
- Profile Page*
  - View listing of own blogs*
- Settings Page
  - Change password
  - Change username

Sitewide
- Every page contains a heading of links to <home>*, <profile>*, <settings>, <logout>*
- View other users' blogs*
  - Directory with all blogs, sorted by timestamp of latest entry of blog*
  - Search for keywords within title
- View edit history for other users' blog entries
- Comment on other users' blog entries*
- View other users' profiles*
  - Contains links to user's blogs*

Database Layout

Table name	Entry content
users	user id, username, hashed password
blogs	user id, blog id, title
entries	blog id, entry id, version id[1], time stamp[2], content
comments	blog id, entry id, user id, time stamp

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[1]Starts counting from 1
[2]Unix time of the server

HTML Templates

- Login.html
  - `Directed` from "/" if user is not logged in
  - `Displays` text input boxes for username and password
  - On click <submit>, `redirects` user to "/login" through a POST request
  - On click <create new account>, `redirects` user to "/register" through a GET request
- Register.html
  - `Directed` from "login.html" on click <create new account>
  - `Displays` text input boxes for information needed to create a complete account
  - On click <create account>, `redirects` user to "/register" through a POST request
- Home.html
  - `Directed` from "/login" or "/register" if credentials are verified
  - `Directed` from link <home>
  - `Displays` all blogs in order of most recently edited
  - `Displays` a blurb for each blog containing the first 20 words of its content
  - On click <blog_whatever>, `redirects` user to "/blog" with whatever's blog_id
- Search_results.html
- Profile.html
  - `Directed` from link <profile>
  - `Displays` all blogs of that user
- Settings.html
  - `Directed` from link <settings>
  - `Displays` link <change password>
- Blog.html
  - `Directed` from "/blog"
  - `Displays` all entries of that blog
  - `Displays` a <view entry history> link for each entry
  - `Displays` comment section at the bottom, with a text input box for new comments
  - `Displays` an <edit> and <enter_entry> link if viewing user's own blog
  - On click <view_entry_history>, `redirects` user to "/entry_history" with corresponding entry_id
  - On click <edit>, `redirects` user to "/blog/<blog_id>/<entry_id>/edit"
  - On click <enter_entry>, `redirects` user to "/new_entry"
- Enter_entry.html
  - `Directed` from link <enter_entry>
  - `Displays` input text box for a new entry
- Entry_history.html
  - `Directed` from link <<view_entry_history>
  - `Displays` all versions of entries
- Layout.html
  - The links that take you to <home>, <profile>, and <settings>

Task Division

- Joseph
  - App routing and redirecting
  - Implementing front-end
- Yevgeniy
  - Everything database related
    - Fetching a blog's entries, fetching a list of blogs, etc.
    - Adding users, blogs, entries, comments to database
- Eric
  - Helping out with frontend and backend tasks when applicable
  - Team management
  - Devblog and updating design doc

Component Map

Frontend	Relationship	Backend
Register account	If the username is not already located in the users table, then add account to users table	Users table
Login	If username typed is in the table and the password of the username matches the password typed, then login	Users table
Create new blog	Find the userid associated with the current user in the users table. Insert values in blogs table with the userid, name of blog, and blog id.	Users table, blogs table
Create new entry	Find user id associated with current user in the users table and only show new entry button if users match. Find the blog id of the blog in which an entry is being created. Insert values in the entries table with the blog id, entry id, version id, time stamp, and content	Users table, Entries table, blogs table,
Edit entry	When editing an entry, the current text in said entry is displayed to user by querying the entry from the database. Find userid associated with current user in the users table and only show edit entry button if users match. Find the blog id of the blog in which an entry is being edited Insert values in the entries table with the blog id, entry id of entry being edited, a incremented version id, the current timestamp, and an updated content section.	Users table, Entries table, blogs table
Change password	Hash the password that user inputs and then change the value of password associated with the current user.	Users table
Add comment	Find entry id of entry in which a comment is being added. Find blog id of the entry Find user id of user making comment Get current time stamp	Users table, blogs table, entries table

	Add these values to the comment table	
Search	Select blogs from the table where their titles match the search request	Blogs table

Sitemap

Legend:
- POST request
- GET request
- user is not logged in
- user is logged in

/

/home

/login

/logout

/register

On click login → /login

on form submit → Successful registration? → YES → /home ; NO → /register

on click register → /register

on form submit → Successful login? → YES → /home ; NO → /login

/home → on logout → /logout
/home → on click tag link → /blogs/<id>
/home → on click Profile → /profile
/home → on search → /search
/home → On click new blog → /new_blog

/new_blog → on form submit → Successful blog creation? → YES → /blogs/<id> ; NO → /new_blog
/new_blog → On click home → /home

/profile → on click settings → /settings
/profile → on logout → /logout
/profile → on click tag link → /blogs/<id>
/profile → on click search → /search
/profile → on click home → /home

/settings → go home → /home
/settings → Successful password change? → YES → /profile ; NO → /settings
/settings → go back → /profile

/search → on logout → /logout
/search → on click tag link → /blogs/<id>
/search → on click Profile → /profile
/search → on search → /search
/search → on click home → /home

/blogs/<id> → On new entry → /new_entry
/blogs/<id> → on logout → /logout
/blogs/<id> → on click entry link → /entry/<id>
/blogs/<id> → On click home → /home
/blogs/<id> → on search → /search
/blogs/<id> → on click Profile → /profile

/new_entry → on form submit → Successful entry? → YES → /entry/<id> ; NO → /new_entry

/edit_entry → on form submit → Successful edit? → YES → /entry/<id> ; NO → /edit_entry

/entry/<id> → on logout → /logout
/entry/<id> → edit entry → /edit_entry
/entry/<id> → on click entry history → /history
/entry/<id> → on click Profile → /profile
/entry/<id> → on search → /search
/entry/<id> → on make comment → Successful comment creation? → YES / NO