Beanstalk Milestone 2

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Beanstalk - Share your adventure
Bring people together around trendy spots and hidden gems!

Outline

Frontend: UI / UX Design Database Schema Backend: API Endpoints and Queries Live Demo

Frontend: UI / UX Design

App Personality App Persona User Experience Design User Interface Design

App Personality: Brand Traits

→ A friendly, modern and accessible app

Simple but not unsophisticated

Trustworthy but not dull

Kind but not passive

Hip but not exclusive

Adventurous but not aggressive

App Personality: Voice

- → Interacts with users in a helpful yet playful tone. Upbeat, sweet and feminine.
- → Every user is a daring adventurer: the app acts as an assistant/sidekick in their journeys.
- → Slightly more formal than conversational, but still human.

Personality Map



FRIENDLY

UNFRIENDLY

SUBMISSIVE

App Personality: Visual Lexicons

- → Color: White with soft emerald-green accents.
 - Flat colors and little textures that parallel app's personality of being simple/non-aggressive.
 - Green that is kind to the eyes as well as refined and functional.
- → Text: Sans-Serif font that portrays the app's feminine tone; clean and professional.
- → Reduce Clutter: Clean interface that embraces the white space and effectively leads users' eyes in navigation.



Alan (25)

- A big travel nut
- A major foodie

User Persona



Molly (21)

- Lives in LA
- Loves LA
- Loves avocado toast and pretty lattes
- Always looking for the next instagrammable spot to show her friends



Cathy (18)

- Fancy pants
- Likes to boast her riches



Vishal (30)

- New Yorker who loves a good drink
- A little bit of a party animal

"Is it picture-worthy?"

User Persona: Molly

Goals:

- Wants to find the best food in a certain area.
- Wants others to see what she has been up to and where she has traveled.
- Is curious about her friend's lives.

Frustrations:

- Not being able to find cool spots her friends are going to
- Not knowing the newest trendy spots near by
- Trying to plan for her travels but not knowing where to go

Motivation

Incentive	
Fear	
Growth	
Power	
Social	

UI Design: Low Fidelity



UI Design: High Fidelity



UX Design

Usability

- Simple transitions
- Minimalistic experience
- Fulfills goal of users

Recognizable

• Familiar Icons



• Users will be informed of what's going on in the app



Database Schema

ER Diagram

Database Schema





Backend: API Endpoints and Queries

API documentation

Database Queries

Backend

- → Last time: create, read, update and delete (CRUD) functionality for users relation
- → Current usage: developer backdoor for root access to database through HTTP
 - GET /api/User Retrieve all users
 - PUT /api/User Update an user
 - DELETE /api/User Delete an user

Backend

- → New API endpoints for user registration and login (returns authentication token upon success)
 - POST /api/User/register Register with username, email, first name, last name, and password
- POST /api/User/login Login with username and password

Backend

- → New API endpoints for user profiles (requires an authentication token to access)
 - Token is JWT HMAC secret encoded. Sent as "Authorization" header
- → Own user profile (decoded authentication token matches the <username>)
 - GET /api/User/profile/<username> Get privileged info for the user's profile
 - PUT /api/User/profile/<username> Update fields for the user's profile</username> Update fields for the user's profile
- → Other user profile (decoded authentication token does not match the <username>)
 - GET /api/User/profile/<username> Get limited info for the user's profile depending on privacy settings

User Registration - POST

INSERT INTO "user" (username, email, password_hash, first_name, last_name, privacy, created_at, updated_at, profile_pic) VALUES (%(username)s, %(email)s, %(password_hash)s, %(first_name)s, %(last_name)s, %(privacy)s, %(created_at)s, %(updated_at)s, %(profile_pic)s) RETURNING "user".id

User Login - POST

SELECT "user".id, "user".password_hash FROM "user" WHERE "user".username = %(username_1)s LIMIT 1

User Profile - GET

SELECT "user".id, "user".username, "user".email, "user".first_name, "user".last_name, "user".privacy "user".profile_pic FROM "user" WHERE "user".id = %(id_1)s LIMIT 1

User Profile - PUT

UPDATE "user" SET updated_at=%(updated_at)s, <arg=value> WHERE "user".id = %(user_id)s

Counting Followers

Following me: SELECT COUNT(followingUID) FROM "Follows" WHERE UID = %(user_id)

I'm Following: SELECT COUNT(UID) FROM "Follows" WHERE followingUID = %(user_id)

Counting Likes

Comments:

SELECT COUNT(UID) FROM "Comment_Like" WHERE commentID = %(comment_id)

Posts:

SELECT COUNT(UID) FROM "Like" WHERE PID = %(post_id)

Relational Queries

Getting all comments for a post:

SELECT "Comment".commentID, "Comment".comment, "Post".PID, FROM "Post" JOIN "Comment" ON "Comment".PID = "Post".PID WHERE "Post".PID = %(post_id)

Relational Queries

Get posts around a gps point using PostGIS:

SELECT "Post".PID, "Location".LID FROM "Location" JOIN "Post" ON "Location".PID = "Post".PID WHERE ST_Distance_Sphere("Location".gps, ST_Make_Point(%lon, %lat)) < 10 * 1000

Live Demo

Project Goals

Registration

User Login

Authentication

User Profile Editing

Questions?