GrowTime

Project Plan

CONCEPT

Problem: various and disorganized sources of information on when to plant, fertilize, spray, prune, and otherwise care for outdoor garden plants

Solution: collects and displays information in a user-friendly calendar, programmed to send text reminders

Target User: amateur gardeners in planting zones 4-6

FEATURES

MVP:

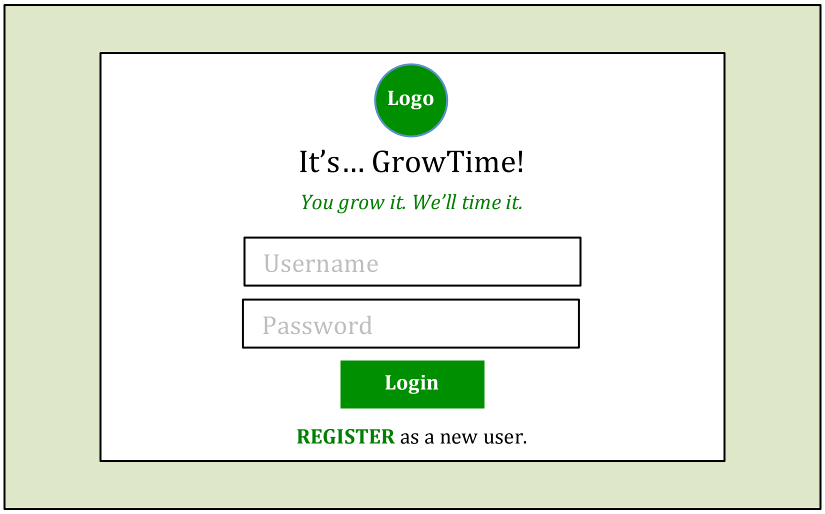
- login page to track user sessions & create a customizable experience
- master calendar that displays gardening tasks by month
- list of a user's current plants & optional plants to add to their collection
- plant profile pages, displaying the stats & task dates for each plant
- double-click feature on plant profiles to allow for name/date changes
- form allowing for the input of a new plant into the database
- automated text reminder for each task

Additions:

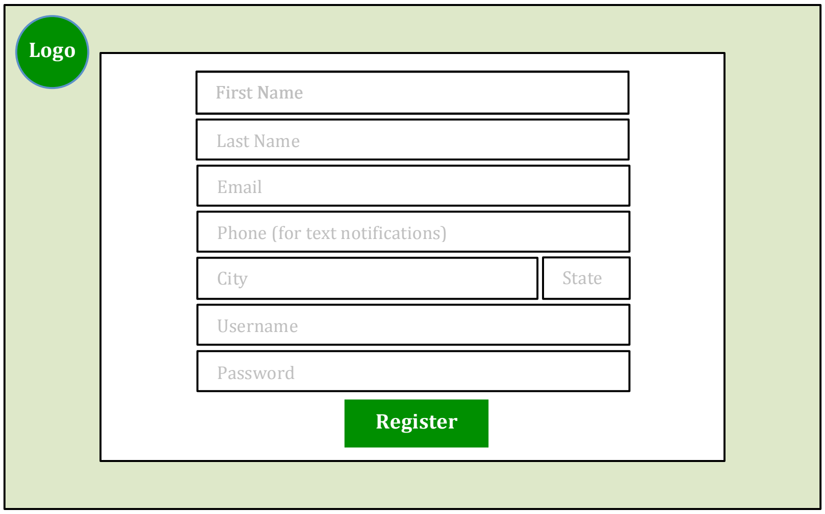
- limit access for double-click edit feature & new plant form to admins
- link to instructional video for each task (included in text)
- printable calendar
- drag-and-drop calendar with customizable events
- optional email reminders
- extended plant database (trees & shrubs, extended zones, etc.)
- extended plant profile (growing information, gardening tips, etc.)

VIEWS

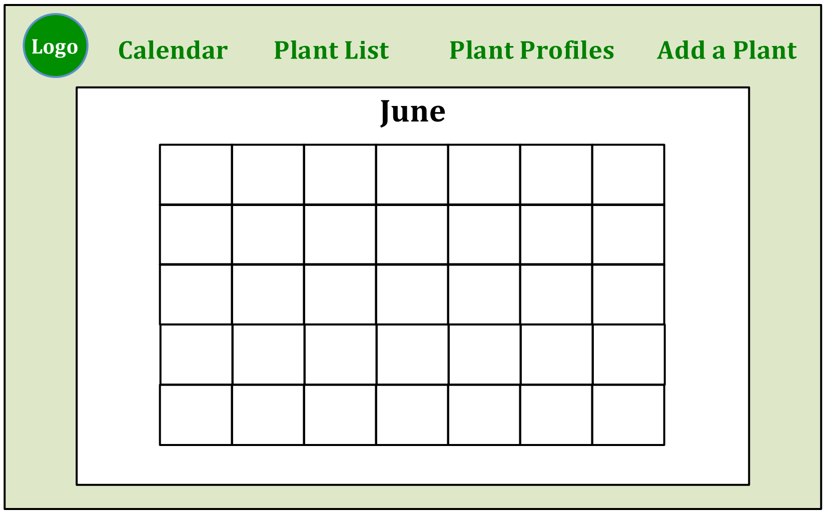
Login:



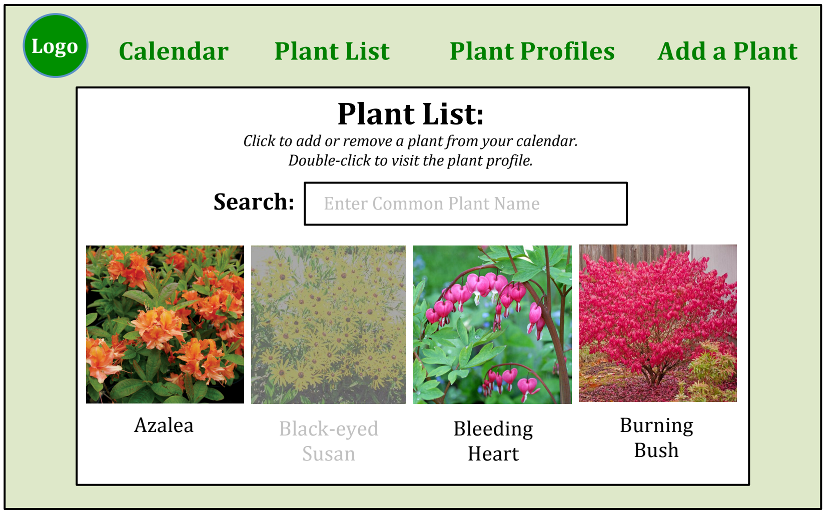
Register:



Calendar:

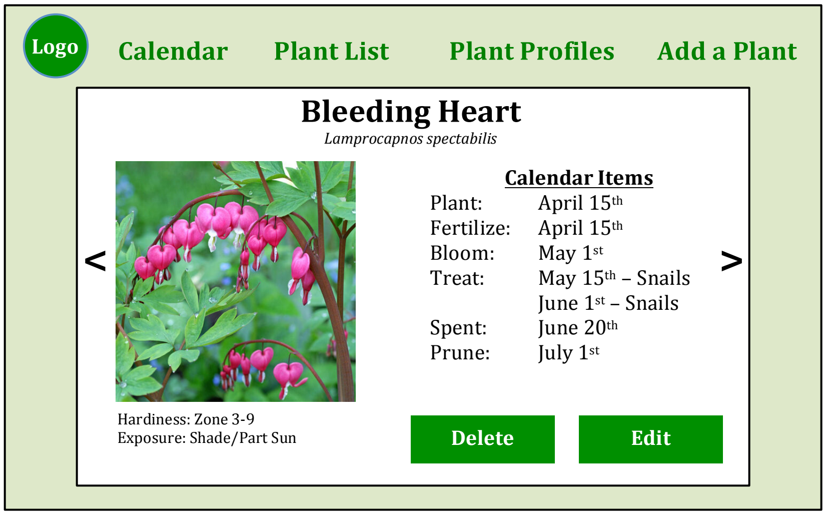


Plant List:



Click to add or remove a plant from your calendar.
Double-click to visit the plant profile.

Plant Profile:



Logo Calendar Plant List Plant Profiles Add a Plant

Bleeding Heart

Lamprocapnos spectabilis

< >

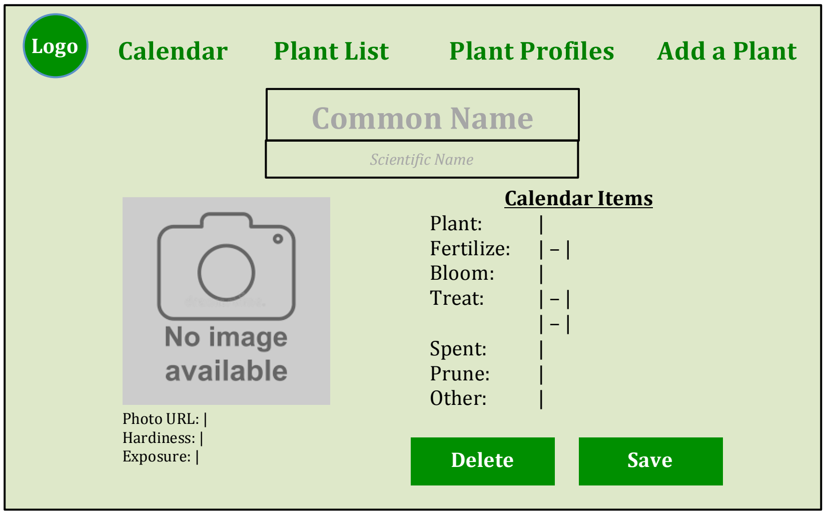
Calendar Items

Plant:	April 15th
Fertilize:	April 15th
Bloom:	May 1st
Treat:	May 15th – Snails
	June 1st – Snails
Spent:	June 20th
Prune:	July 1st

Hardiness: Zone 3-9
Exposure: Shade/Part Sun

Delete Edit

Add a Plant:



Logo Calendar Plant List Plant Profiles Add a Plant

Common Name

Scientific Name

No image available

Calendar Items

Plant:	|
Fertilize:	| – |
Bloom:	|
Treat:	| – |
	| – |
Spent:	|
Prune:	|
Other:	|

Photo URL: |
Hardiness: |
Exposure: |

Delete Save

ROUTES

- Login: ‘/’
- Calendar: ‘/calendar’
- Plant List: ‘/plant-list’
- Plant Profile: ‘/plant-profile-1’ (etc.)
- Add a Plant: ‘/add-a-plant’

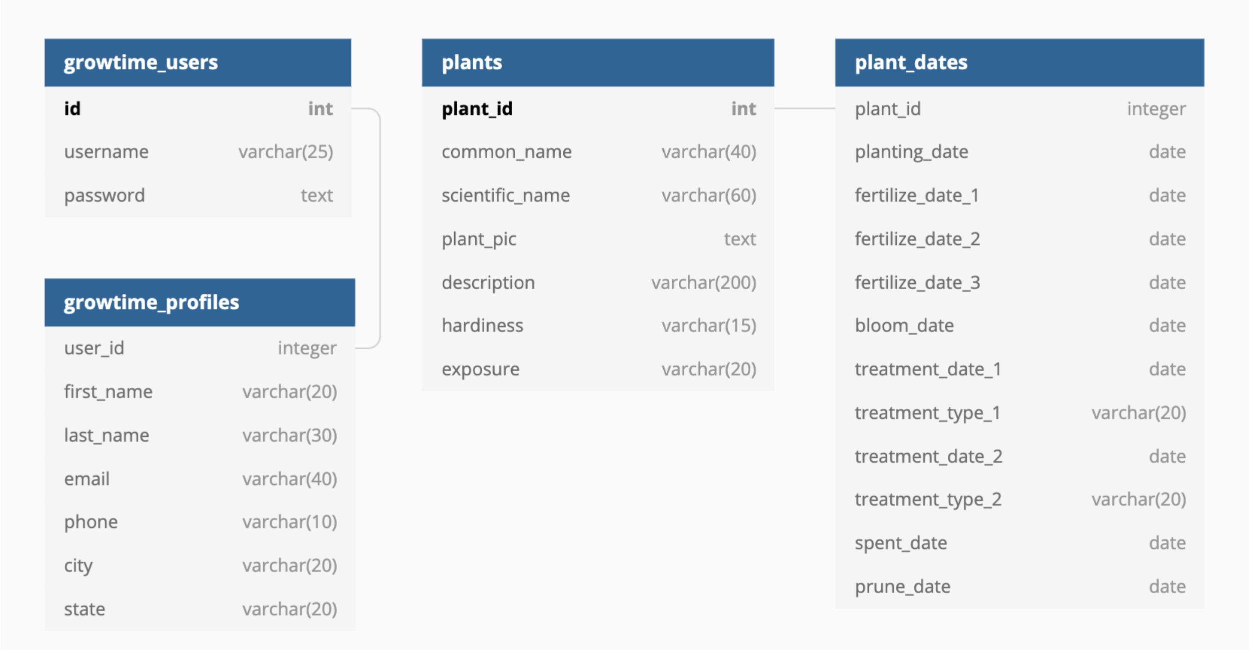
DATABASE SCHEMA

```
create table growtime_users (
id serial primary key,
username varchar(25),
password text
);

create table growtime_profiles (
user_id integer references growtime_users(id),
first_name varchar(20),
last_name varchar(30),
email varchar(40),
phone varchar(10),
city varchar(20),
state varchar(20)
);

create table plants (
plant_id serial primary key,
common_name varchar(40),
scientific_name varchar(60),
plant_pic text,
description varchar(200),
hardiness varchar(15),
exposure varchar(20)
);

create table plant_dates (
plant_id integer references plants(plant_id),
planting_date date,
fertilize_date_1 date,
fertilize_date_2 date,
fertilize_date_3 date,
bloom_date date,
treatment_date_1 date,
treatment_type_1 varchar(20),
treatment_date_2 date,
treatment_type_2 varchar(20),
spent_date date,
prune_date date
);
```



growtime_users	
id	**int**
username	varchar(25)
password	text

growtime_profiles	
user_id	integer
first_name	varchar(20)
last_name	varchar(30)
email	varchar(40)
phone	varchar(10)
city	varchar(20)
state	varchar(20)

plants	
plant_id	**int**
common_name	varchar(40)
scientific_name	varchar(60)
plant_pic	text
description	varchar(200)
hardiness	varchar(15)
exposure	varchar(20)

plant_dates	
plant_id	integer
planting_date	date
fertilize_date_1	date
fertilize_date_2	date
fertilize_date_3	date
bloom_date	date
treatment_date_1	date
treatment_type_1	varchar(20)
treatment_date_2	date
treatment_type_2	varchar(20)
spent_date	date
prune_date	date

ENDPOINTS & CONTROLLERS

authCtrl:

- app.post ('/auth/register', authCtrl.**register**)
  - input collected on body & saved to the following SQL tables:
    - growtime_users: username, password – generates id
    - growtime_profiles: first_name, last_name, email, phone, city, state
- app.post ('/auth/login', authCtrl.**login**)
  - input collected on body and authenticated against SQL table:
    - growtime_users: username, password

plantCtrl:

- app.get ('/api/plants', plantCtrl.**getPlants**)
  - query by common plant name, else return all
  - map over collection and return from SQL:
    - plants: plant_pic, common_name
- app.get ('/api/plant/:plantid', plantCtrl.**getPlant**)
  - locate plant by plantid param
  - map over collection and return profile cards from SQL:
    - plants: common_name, scientific_name, plant_pic, description, hardiness, exposure
    - plant_dates: planting_date, fertilize_date_1, fertilize_date_2, fertilize_date_3, bloom_date, treatment_date_1, treatment_type_1, treatment_date_2, treatment_type_2, spent_date, prune_date
- app.post ('/api/newplant', plantCtrl.**newPlant**)
  - input collected on body & saved to the following SQL tables:
    - plants: common_name, scientific_name, plant_pic, description, hardiness, exposure
    - plant_dates: planting_date, fertilize_date_1, fertilize_date_2, fertilize_date_3, bloom_date, treatment_date_1, treatment_type_1, treatment_date_2, treatment_type_2, spent_date, prune_date
- app.delete ('/api/plant/:plantid', plantCtrl.**deletePlant**)
  - locate plant by plantid param and delete from the following SQL tables:
    - plants
    - plant_dates
- app.put ('/api/plant/:plantid', plantCtrl.**editPlant**)
  - input collected on body then saved as changes on SQL tables:
    - plants: common_name, scientific_name, plant_pic, description, hardiness, exposure
    - plant_dates: planting_date, fertilize_date_1, fertilize_date_2, fertilize_date_3, bloom_date, treatment_date_1, treatment_type_1, treatment_date_2, treatment_type_2, spent_date, prune_date

<u>POINT PLAN</u>

Method	✔	Pts.
Minimum Requirements		
Full CRUD		---
Foreign key & join statement		---
MVP Plan passed off with mentor		---
Core (maxes at 45)		**(40-45)**
Media Queries – 3+ views responsive on 2 or more screen sizes		15
Redux – read/write to store from 2+ reducers (read only – 5pts)		5-15
Hooks – implemented on at least 5 components		10
Authentication – functional for login & registration		10
Additional Technologies		**(30)**
Twilio – send reminder messages through SMS		10
React Big Calendar – dynamically draws/displays information from database		10
Sass – 50% of project styling (includes variables, mix-ins, nesting/inheritance)		10
Hosting		**(15)**
Successfully hosted		10
Registered under unique domain name		5
Presentation		**(10)**
Purpose, MVP, technologies, no discussion of broken features/experience, 3:00		10
TOTAL		**90-100**