

T4A2-A - Full Stack Application - Part A

R1 - Description of your website, including:

- **Purpose:** C-Sign is built to help businesses in Australia collect data on the times people have visited their venue as required by law. We provide an easy to use system that remembers users preferences and information to make return visits seamless.

On top of these features for users the business owner will be able to redirect them to a sales page or menu after sign in so use of multiple QR codes is not needed.

Functionality / features:

- **User Features:**

- Remembering user information by storing and recalling secure cookies.
- One QR code for menu and sign in. Once a user has signed in they are only required to sign in every 4 hours and only one QR code is needed to get to sales pages or menus.

- **Business Features:**

- Auto generated QR codes, no need to have your own made to point to the sign up site.
- Unique web address associated with your business.
- Easy data collection, owners can download their data anytime via CSV file to upload to their mailing list
- Integration with Mailchimp API's so that as soon as a guest or customer opts in to your list it will automatically be added. API keys are also encrypted on the back end.

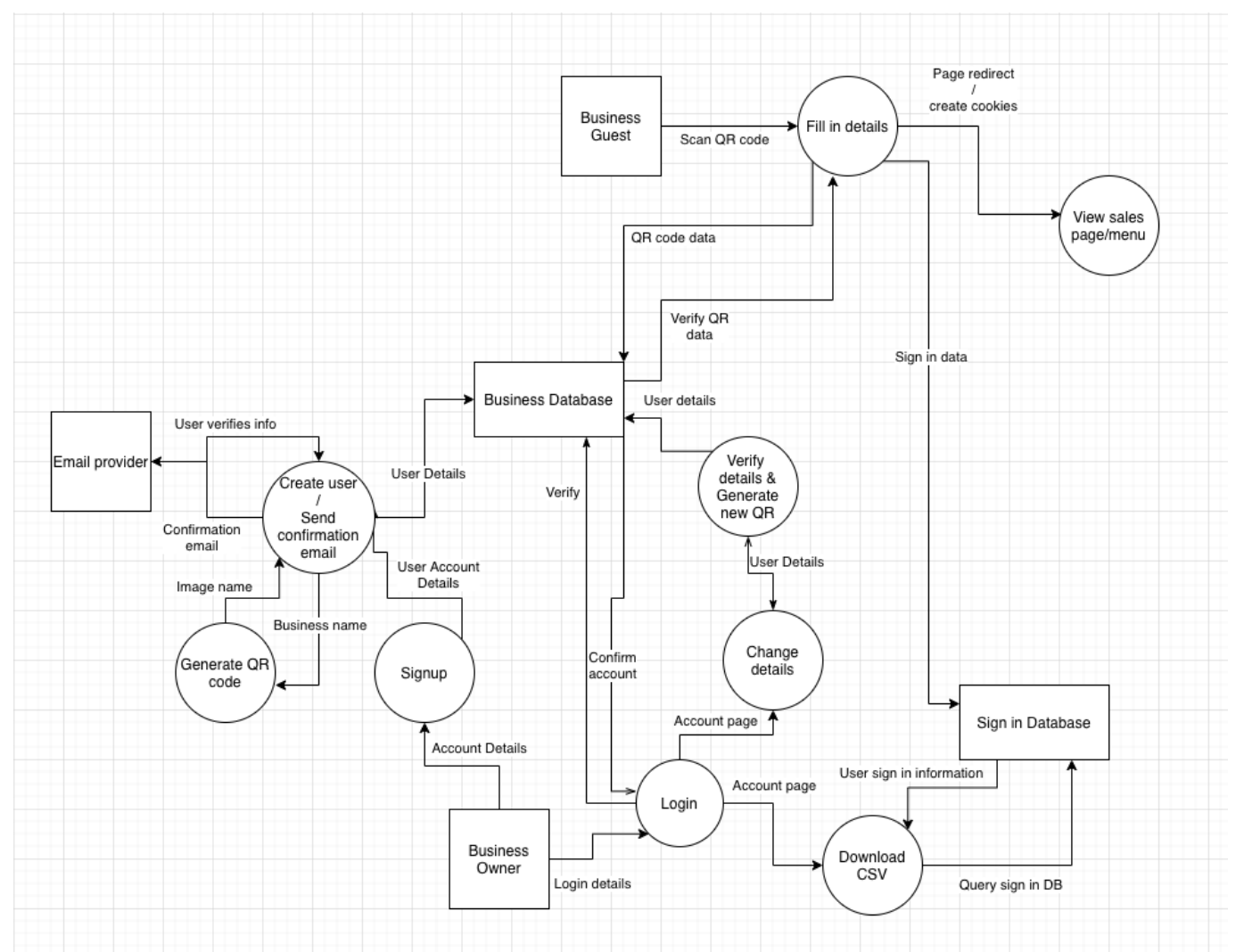
- **Target audience:** Target audience for this would be small business owners and hospitality/retail business owners up to large sizes where you want to or need to show someone another page after they sign in for ordering or purchasing.

Our aim with C-Sign is offer a premium sign in product for free as a gateway marketing too to sell a suite of hospitality business management apps down the road. Once users have one account a with us it will allow them to easily add on future products with ease.

- **Tech stack:**

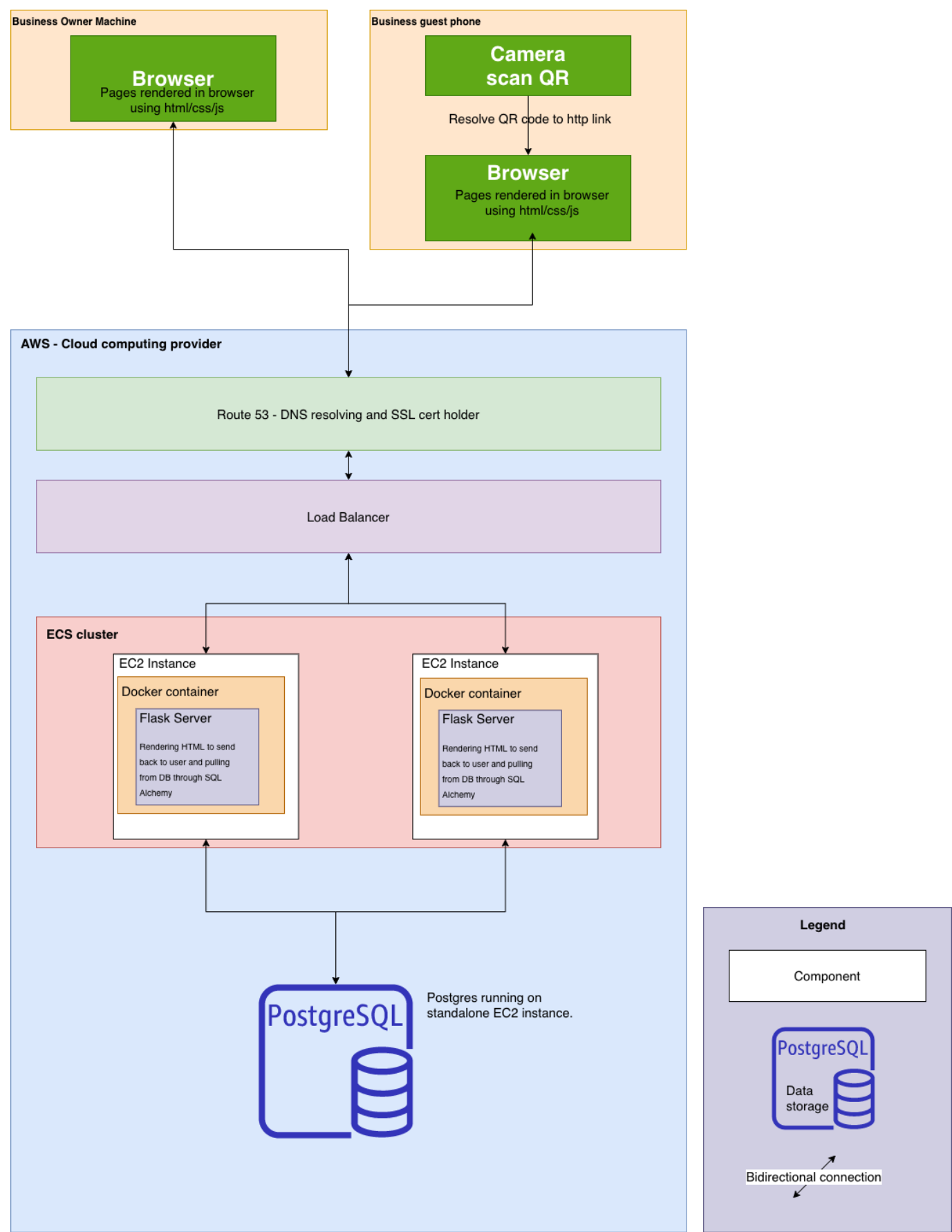
- Python/Flask: Python is the programming language of choice and Flask is the back end framework we are using to process and serve webpages to the end user.
- PostgreSQL: Postgres is the relational database for the back end as it integrates with Flask extremely easy and is capable of scaling with ease.
- Bootstrap: Bootstrap is the front end template used for for building the front end.
- AWS: It will be deployed on AWS utilising ECS and ECR for scaling and continuous integration.

R2 - Dataflow Diagram.



Above we see how the business user can sign up and interact with the backend features as well as guest entering venue can interact with the QR code features to sign in and see the menu.

R3 - Application Architecture Diagram.



R4 - User Stories.

Business owner perspectives:

Name: Michael C

Persona: Small bar owner and award winning bartender

Demographic: Male, 32yo, Inner West

Usage: As a bar owner I want to be able to show a menu to the guest after sign in so I don't have to manage multiple QR codes or ask guests to use multiple QR codes. We are a high end cocktail bar and want our experience to be seamless.

Name: Lil E

Persona: Small hand made food retailer

Demographic: Female, 22yo, South West Sydney

Usage: As a small retailer I would like to be able to redirect my customers to a specials page after they sign in to highlight our current offers. My offers keep changing and it costs money to keep reprinting everything especially in a pandemic when you know business is down. I need to be able to send my customers to the latest sales as soon as they sign in.

Name: Jean-Baptiste

Persona: Large restaurant owner

Demographic: Male 55yo, North Sydney

Usage: As a restaurant owner I want to be able to show a user our upcoming lunch opening hours after they sign in so they can be more informed. The age group for my restaurant is higher and tend not to use things like instagram or facebook where we market most of our specials. I want to be able to show them as soon as they have signed in.

Guest/Customer perspectives:

Name: Gabrielle P

Persona: Startup founder

Demographic: Male, 48yo, Beaches

Usage: As a regular at X bar I don't want to scan multiple QR codes multiple times in a seating, it takes away from the experience. I visit this bar everyday and have many meetings here, first thing I want is when I have someone come to meet is to be able to get in easy and not have to break conversation by scanning multiple QR codes trying to figure out how to sign in. It would look bad on me as business person for picking the wrong place.

Name: Kate P

Persona: Foody and amateur reviewer

Demographic: Female, 42yo, Office worker, Inner Sydney

Usage: As a guest at X bar I want to be able to sign up to their mailing list with ease and get their menu straight away by scanning the QR code once and if I scan again I don't want to have to sign in again. I want to get to the menu straight away and be able to see what I am having on the night.

Name: Carli C

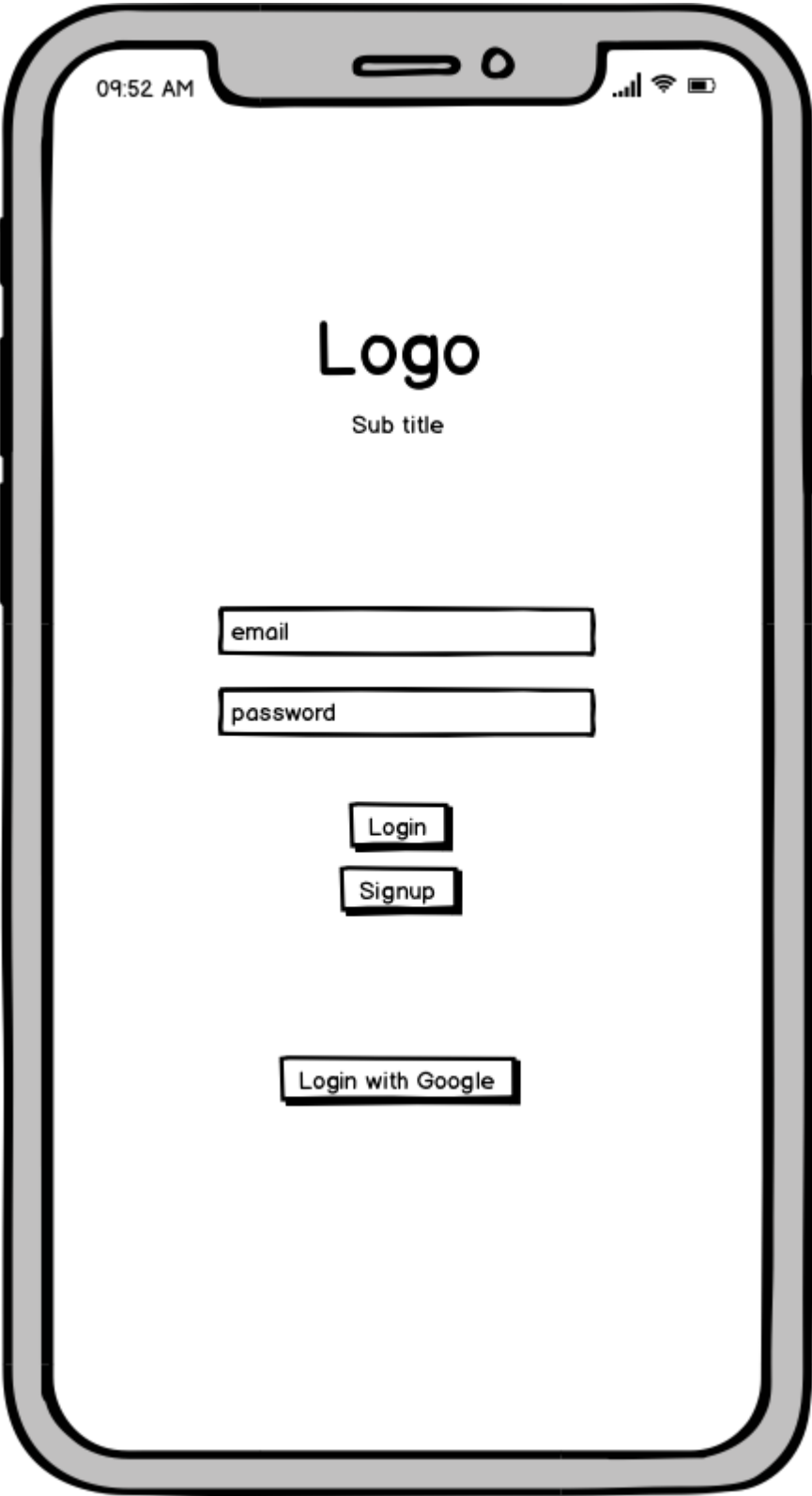
Persona: High school teacher

Demographic: Female, 31yo, South West Sydney

Usage: As a shopper at X retail store I want to be able to view specials on my phone after I sign in as I shop so I know where the deals are. I hate messing around and having to put in my details all the time, I wish there was one that remembered me.

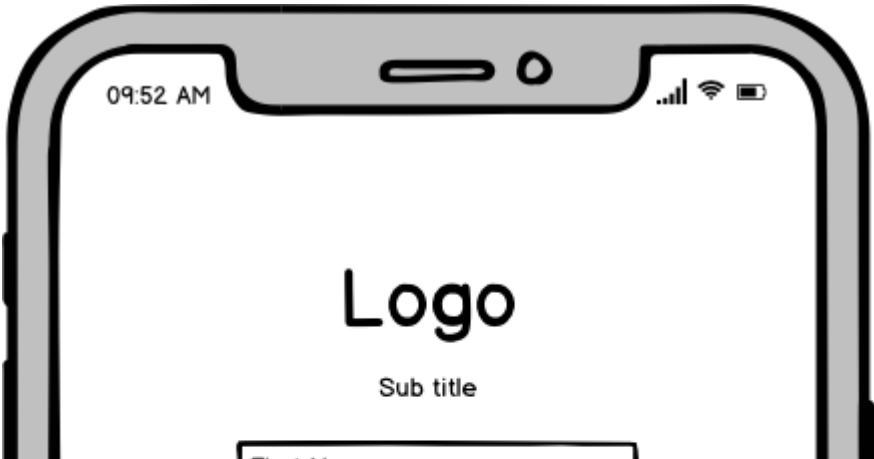
R5 - Wireframes for multiple standard screen sizes, created using industry standard software.

Mobile Wireframes:



Mobile Login

Mobile Account Signup



First Name

Last Name

Email

Phone

Business Name

Business logo:

Select Image

Choose to display an PDF/image
or link to your menu.
(one or the other)

Menu url

Upload menu PDF or image

Select Image

Password

Password Again

Submit

Mobile Account Settings

09:52 AM

Logo

Sub title

First Name

Last Name

Email

Phone

Business Name

Business logo:

Select Image

Choose to display an PDF/image
or link to your menu.
(one or the other)

Menu url

Upload menu PDF or image

Select Image

Password

Password Again

Submit

Mobile Guest Sign In Once the QR code is scanned for the particular business it will resolve and take the user here to sign in. Once signed in it will goto the business owners page or if one is not set a thank you page.

09:52 AM

Logo

You are signing into "blah blah" according to government regulations. Your data is being handled with care. <3

First Name

Last Name

Email

Phone

Address

☐ Want to get cool emails from this place?

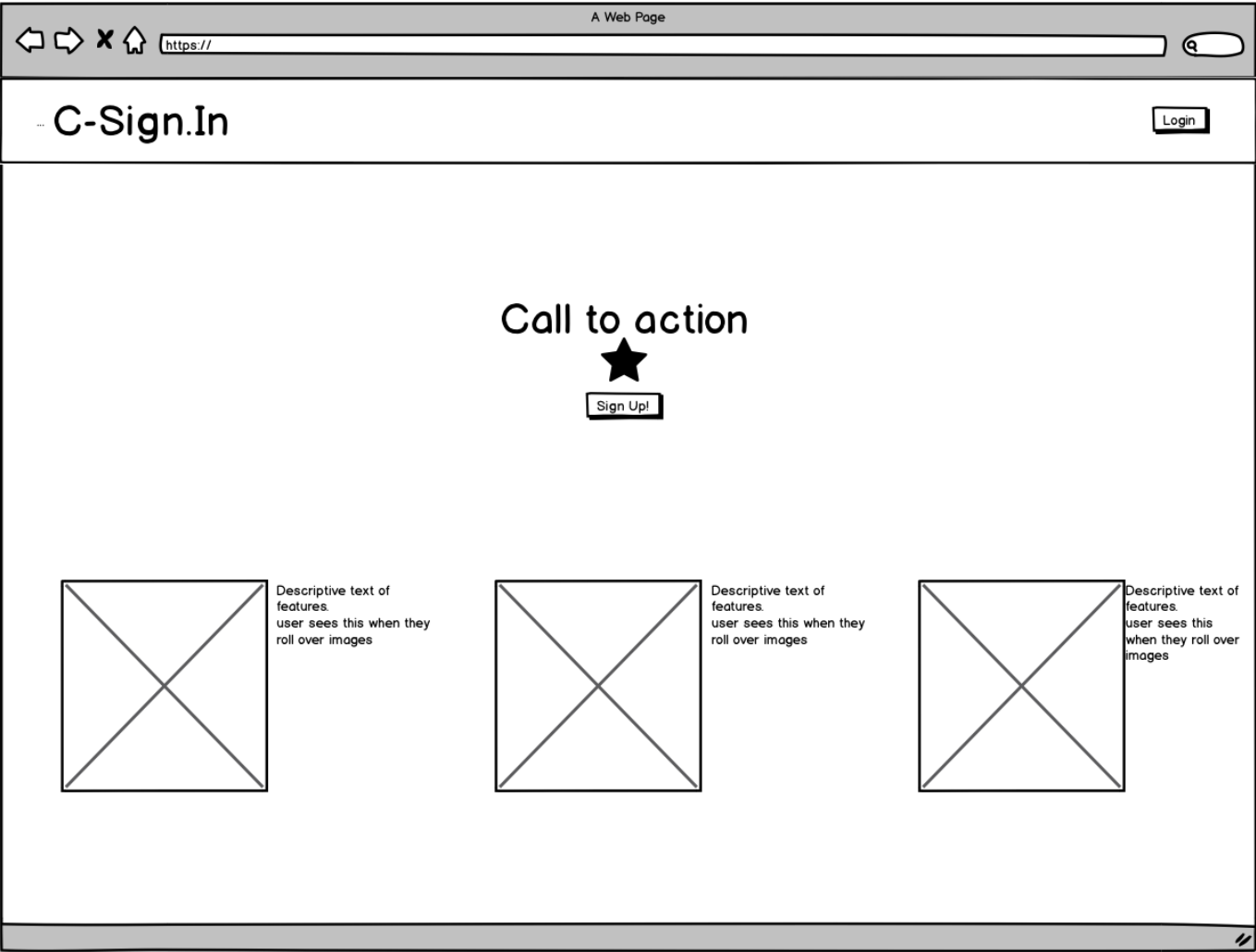
☐ I am not experiencing flu sym

Sign In



Desktop Wireframes:

Desktop Homepage



Desktop Login

A Web Page

https://

q

C-Sign.In

Login

Logo

Sub title

email

password

Login

Signup

Login with Google

Desktop Account Signup

A Web Page

https://

C-Sign.In

Login

Logo

Sub title

First Name

Last Name

Email

Phone

Business Name

Business logo:

Select Image

Choose to display an PDF/image
or link to your menu.
(one or the other)

Menu url

Upload menu PDF or image

Select Image

Password

Password Again

Submit

Desktop Account Page

A Web Page

https://

C-Sign.In

Account Logout

Logo

Sub title

First Name

Last Name

Email

Phone

Business Name

Business logo:

Select Image

Choose to display an PDF/image
or link to your menu.
(one or the other)

Menu url

Upload menu PDF or image:

Select Image

Password

Password Again

Submit

R6 - Screenshots of your Trello board throughout the duration of the project.

I have chosen the kanban style workflow on top of github boards which can easily be setup to mimic trello boards. it just allows you to use them attached to the repo you are working with.

C-Sign

Filter cards on this board... (example: "infinity stone @thanos")

To Do

11 cards

Base readme

Docs

Setup

SB-10

Wireframes

Setup

SB-14

Base Swagger file

Production

Setup

SB-13

Basic HTML templates

Setup

SB-5

swagger file

Setup

SB-11

Init repo

Setup

SB-7

Cloud Arch Diagram

Docs

SB-8

Basic CI/CD YAML

Production

Setup

SB-1

Base tests

Production

Stale

SB-2

Add a card

In Progress

0 cards

Add a card

Testing

0 cards

Add a card

Done

1 card

Create trello boards

Docs

Setup

SB-12

Add a card

C-Sign

Filter cards on this board... (example: "infinity stone @thanos")

To Do

8 cards

Base Swagger file

Production

Setup

SB-13

Basic HTML templates

Setup

SB-5

swagger file

Setup

SB-11

Cloud Arch Diagram

Docs

SB-8

Basic CI/CD YAML

Production

Setup

SB-1

Base tests

Production

Stale

SB-2

domain + subdomain

Setup

SB-3

Add a card

In Progress

2 cards

Base readme

Docs

Setup

SB-10

Wireframes

Setup

SB-14

Add a card

Testing

0 cards

Add a card

Done

2 cards

Init repo

Setup

SB-7

Create trello boards

Docs

Setup

SB-12

Add a card

CRUD
Feature
SB-4
Add a card

C-Sign

Filter cards on this board... (example: "infinity stone @thanos")

► To Do

7 cards

Base Swagger file

Production Setup

SB-13

Basic HTML templates

Setup

SB-5

swagger file

Setup

SB-11

Cloud Arch Diagram

Docs

SB-8

Basic CI/CD YAML

Production Setup

SB-1

Base tests

Production Stale

SB-2

CRUD

Feature

SB-4

Add a card

► In Progress

1 card

Wireframes

Setup

SB-14

Add a card

► Testing

0 cards

Add a card

► Done

4 cards

Base readme

Docs Setup

SB-10

Init repo

Setup

SB-7

Create trello boards

Docs Setup

SB-12

domain + subdomain

Setup

SB-3

Add a card

16 / 18

C-Sign

Filter cards on this board... (example: "infinity stone @thanos")

To Do

8 cards

ProductionSetup

SB-13

Basic HTML templates

Setup

SB-5

swagger file

Setup

SB-11

Cloud Arch Diagram

Docs

SB-8

Basic CI/CD YAML

ProductionSetup

SB-1

Base tests

ProductionStale

SB-2

CRUD

Feature

SB-4

Dataflow diagrams

Setup

Add a card

In Progress

1 card

Wireframes

Setup

SB-14

Add a card

Testing

0 cards

Add a card

Done

4 cards

Base readme

DocsSetup

SB-10

Init repo

Setup

SB-7

Create trello boards

DocsSetup

SB-12

domain + subdomain

Setup

SB-3

Add a card

C-Sign

Filter cards on this board... (example: "infinity stone @thanos")

To Do

7 cards

Base Swagger file

ProductionSetup

SB-13

Basic HTML templates

Setup

SB-5

swagger file

Setup

SB-11

Cloud Arch Diagram

Docs

SB-8

Basic CI/CD YAML

ProductionSetup

SB-1

Base tests

ProductionStale

SB-2

CRUD

Feature

SB-4

Add a card

In Progress

2 cards

Dataflow diagrams

Setup

SB-15

Wireframes

Setup

SB-14

Add a card

Testing

0 cards

Add a card

Done

4 cards

Base readme

DocsSetup

SB-10

Init repo

Setup

SB-7

Create trello boards

DocsSetup

SB-12

domain + subdomain

Setup

SB-3

Add a card

17 / 18

C-Sign

Filter cards on this board... (example: "infinity stone @thanos")

To Do

7 cards

Base Swagger file

Production

Setup

SB-13

Basic HTML templates

Setup

SB-5

swagger file

Setup

SB-11

Cloud Arch Diagram

Docs

SB-8

Basic CI/CD YAML

Production

Setup

SB-1

Base tests

Production

Stale

SB-2

CRUD

Feature

SB-4

Add a card

In Progress

1 card

Wireframes

Setup

SB-14

Add a card

Testing

0 cards

Add a card

Done

5 cards

Dataflow diagrams

Setup

SB-15

Base readme

Docs

Setup

SB-10

Init repo

Setup

SB-7

Create trello boards

Docs

Setup

SB-12

domain + subdomain

Setup

SB-3

Add a card

18 / 18