Bean Stack

BEAN STACK TEAM

Stuart Miller
ID: 0404322M

Antreas Kontopoulos
ID: 2349337K

Sarthak Kapoor
ID: 2349677K

Sumedh Mane
ID: 2352217M

Bean Stack

OVERVIEW

Bean Stack is about connecting people with fantastic coffee that is recommended and loved by our community of coffee enthusiasts. Users can browse reviews by others to discover the next coffee that they absolutely need to experience, find out how to get their hands on the coffee and then write their own review.

The platform will not only point out the subtle differences between various coffees types originating from different parts of the world but also provide details on the unique features of each one of these coffees in the form of user reviews.

Vendors can also register with Bean stack in a quick process that allows them to showcase their products that they have to offer to the community. In return, our users are referred to their cafe or online shop if they search for one of the vendors coffees on the application.

The application will also have brewing techniques and their steps for preparation for the most famous coffee types.

USER PERSONAS

Alexandra

A 28 year old travel enthusiast working as a Financial Consultant for PWC.
When it comes to coffee, a true purist at heart. She even has her own coffee grinder.

William

A 35 year old iOS developer working for a tech start-up.
An avid hater of instant coffee, he would go to the extent of keeping his coffee beans and his coffee press by his desk.

Robert

A 40 year old coffee shop owner.
Robert is a coffee enthusiast who has monthly coffee tasting sessions for interested customers.
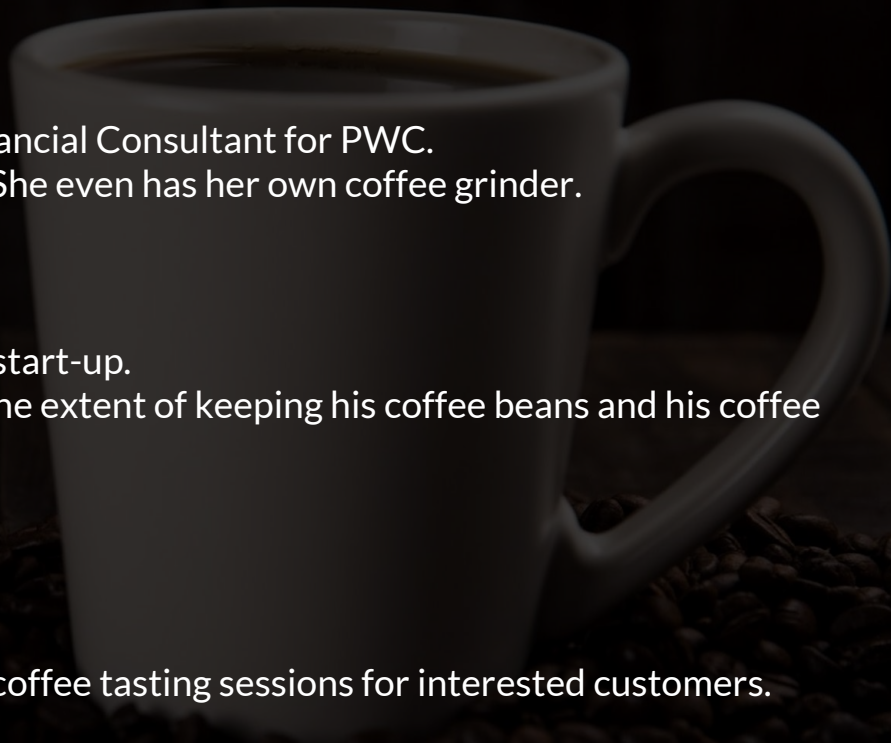
Alexandra's background

- Age: 28
- Occupation: Consultant (Finance)
- Marital Status: Single
- Work hours: 9:00 – 7:00
- Salary: 30,000 GBP
- Personality traits: Avid traveller

Alexandra's persona

Alexandra, is a driven, hardworking 28 year old Finance Consultant working for PWC. She spends her 27 days paid leaves in a year solo traveling around different parts of the world, she hasn't discovered yet. While most travellers come back with fridge magnets as souvenirs from their travels, Alex prefers returning with the place's locally grown coffee beans.

The fact that she happens to be a purist, she prefers not to experiment with coffee other different forms (such as mixed with alcohol – espresso martinis). She is extremely particular about how she has her coffee, especially with the brewing and roasting techniques.

As long as the coffee is genuine and has met certain preferential standards, she doesn't let a hefty price tag scare her away.

As much as she relies on the people's recommendations, she wishes that she could someday rely on reading credible reviews that could help her understand the choices of coffee and their review as compared to each other.

William's background

- Age: 35
- Occupation: iOS developer
- Marital Status: Single (winky smiley)
- Work hours: Erratic
- Income: 25,000 GBP
- Personality traits: Hipster

William's persona

Although William considers himself a coffee enthusiast, he doesn't consider himself a purist. He loves experimenting with different styles of coffees (Coffees with spirits, Vietnamese coffees with condensed milk). Although, the one thing he stays away from are instant coffee pouches and he almost always prefers to make his own coffee. He would usually keep a ground coffee bean bag and his expensive cafetiere (a coffee press) in the office itself so he won't have to rely on coffees that do not meet his preferential standards.

He prefers that his coffee is strong, while he enjoys the taste, he also believe they're what helps him power through the hectic work hours.

While he has his preferences, William would rather spend all his money on the latest tech gadget reviews on Tech Crunch as opposed to spending a big chunk of his income on coffee. So while we has zero tolerance for sub-standard coffee, he wouldn't go about buying the most expensive brand out there.

Robert' background

- Age: 40
- Occupation: Barista outlet owner
- Marital Status: Married
- Work hours: 40+
- Income: 45,000 GBP
- Personality traits: Gentle and humble

Robert' persona

Robert owns the Artisan Bean coffee shop on in the west end of Glasgow. His business is going well and he is looking to open a second branch in the city in the near future. Front and centre in his shop is always coffee and he tries to offer a friendly atmosphere for both experienced coffee enthusiasts and novices alike.

For the customer who really knows their coffee, he offers a wide range of brewing techniques such as AeroPress, v60 and Chemex and tries to vary his selection of beans to keep the experts interested. For those who are new to the world of gourmet coffee he offers 'coffee of the month' and tasting sessions/crash courses to get people up to speed.

Robert understands the ever increasing-importance of technology in his customers' lives and sees that as an opportunity to further the coffee lovers community in Glasgow. As a businessman and a coffee enthusiast himself, he is looking at ways of attracting customers from further afield and placing Artisan Bean at the heart of the tech savvy coffee scene.

SPECIFICATIONS (REQUIREMENTS)

Must have:

1. Users must be able to create their accounts either through site's own Sign Up form or through Facebook or Google login APIs.
2. Users must be able to login with their Bean Stack's login credentials or with their Facebook or Google account credentials.
3. Users must be able to delete or edit their accounts.
4. Users must be able to view reviews for coffee products.
5. Users must be able to view the average ratings of a coffee product.
6. Users must be able to write reviews and (or) rate coffee products once they are logged in.

Should have:

1. Users should be able to get suggestions on how and where to get a coffee product once they are logged in, if one of the registered vendors are selling the coffee. Thereafter, the users can view the map to the shop if near them or a link to the vendors online shop.
2. Users should be able to search for coffee products and browse through the results.
3. Vendors should be able to log in, create profiles, add products and enter their location and products details.

Note: There are two types of user profiles namely consumers (referred to as users) and vendors.

SPECIFICATIONS (REQUIREMENTS)

Could have:

1. Users could view a list of popular brewing techniques and preparation steps for the most famous coffee types.
2. Users could view videos and photographs of the preparation techniques.
3. Users could be able to upload profile photographs and coffee and cafe photographs.
4. Users could add the location of the cafe or a place where they found a specific coffee while adding reviews through the help of Google Maps API.
5. Users could view the location of origin of a coffee product (via Google maps API)
6. Users could view a list of the coffees that they have tried in their profile
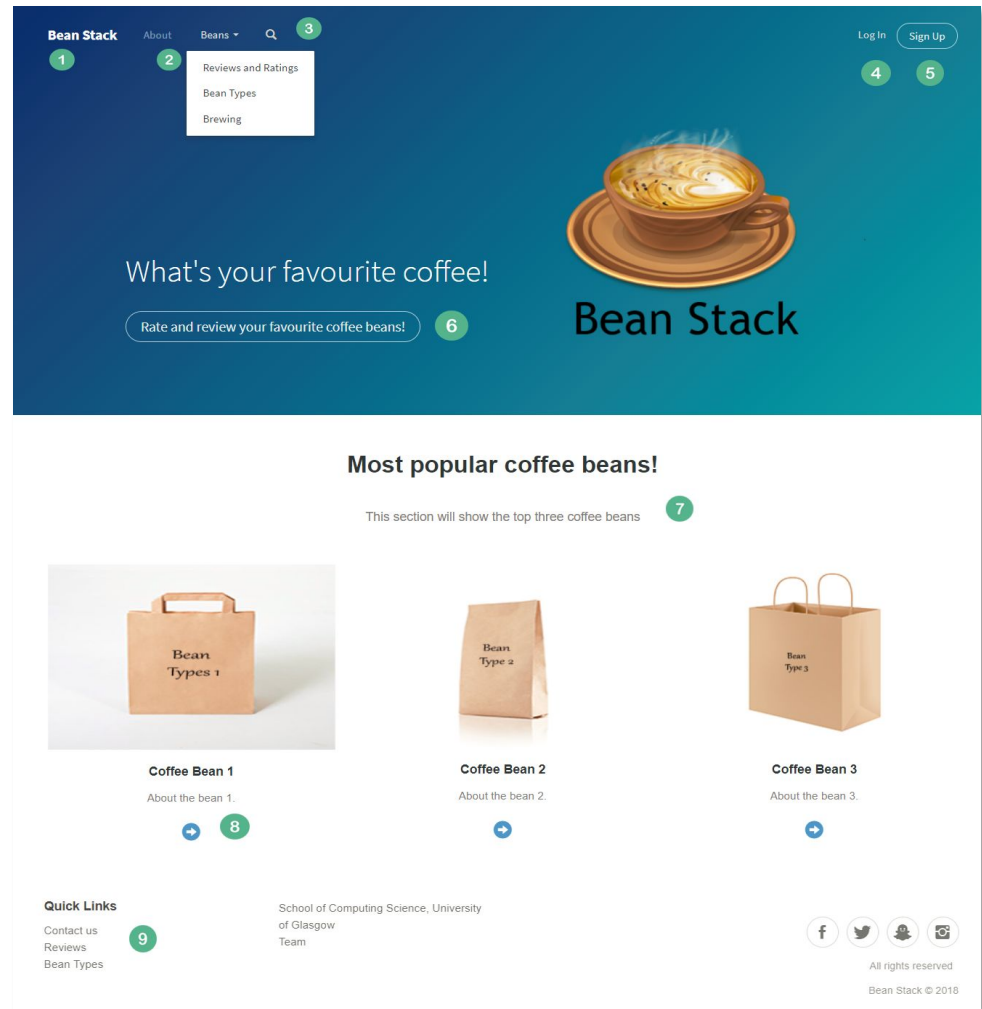7. Users could view the top ten rated coffees on the site.

Would like to have:

1. Users will get a list of new coffees in their area that they may want to experience based on their profile.
2. Users can have different "badges" for writing more reviews example 20 reviews or providing more ratings i.e. reward participation.
3. wish list
4. The ability for the vendor to login to their account and see the number of views that their coffee has had.

WIREFRAMES

Home Page

Legend:

1 - Site Logo
2 - About-us page link and Bean category drop down
3 - Search bar for searching and browsing products
4 - Log In button
5 - Sign Up button for new users
6 - Redirects you to the search/browse page
7 - Most popular bean category section - lets user know about the trending and most highly rated beans at the first glance. This does not require user to log-in and can be accessed even by users without any accounts.
8 - Grid display and "know more" buttons for users to click and find out more about the beans and (or) give ratings and reviews

Bean Stack   About   Beans ▾   🔍   Log In   Sign Up

Reviews and Ratings
Bean Types
Brewing

What's your favourite coffee!

Bean Stack

Rate and review your favourite coffee beans!

Most popular coffee beans!

This section will show the top three coffee beans

Coffee Bean 1
About the bean 1.

Coffee Bean 2
About the bean 2.

Coffee Bean 3
About the bean 3.

Quick Links
Contact us
Reviews
Bean Types

School of Computing Science, University of Glasgow
Team

All rights reserved
Bean Stack © 2018

WIREFRAMES

Sign Up Page

Legend:

1 - Account creation input fields

2 - Sign Up confirmation button

Note:
- Users can navigate to the home or log in page by clicking on Bean Stack Logo or "Log In" button.

- If the users try to access any other part of the site, they will be redirected back to the Sign Up page.

WIREFRAMES

Login Page

Legend:

1 - Account login input fields
2 - Login confirmation button

Note:
- Users can log in through either by using the site's own login credential or by the Facebook login API.
- Users can log in to their accounts only if they have valid credentials matching with the ones stored in the system or through their facebook accounts.
- Sign up page navigation rules apply for the login as well.

Bean Stack   About   Beans ▾   🔍

Log In   (Sign Up)

③ f Sign in with Facebook

Email   ①

Password

[Log In]   ②

Forgot your email or password?

Quick Links

Contact us
Reviews
Bean Types

School of Computing Science, University of Glasgow
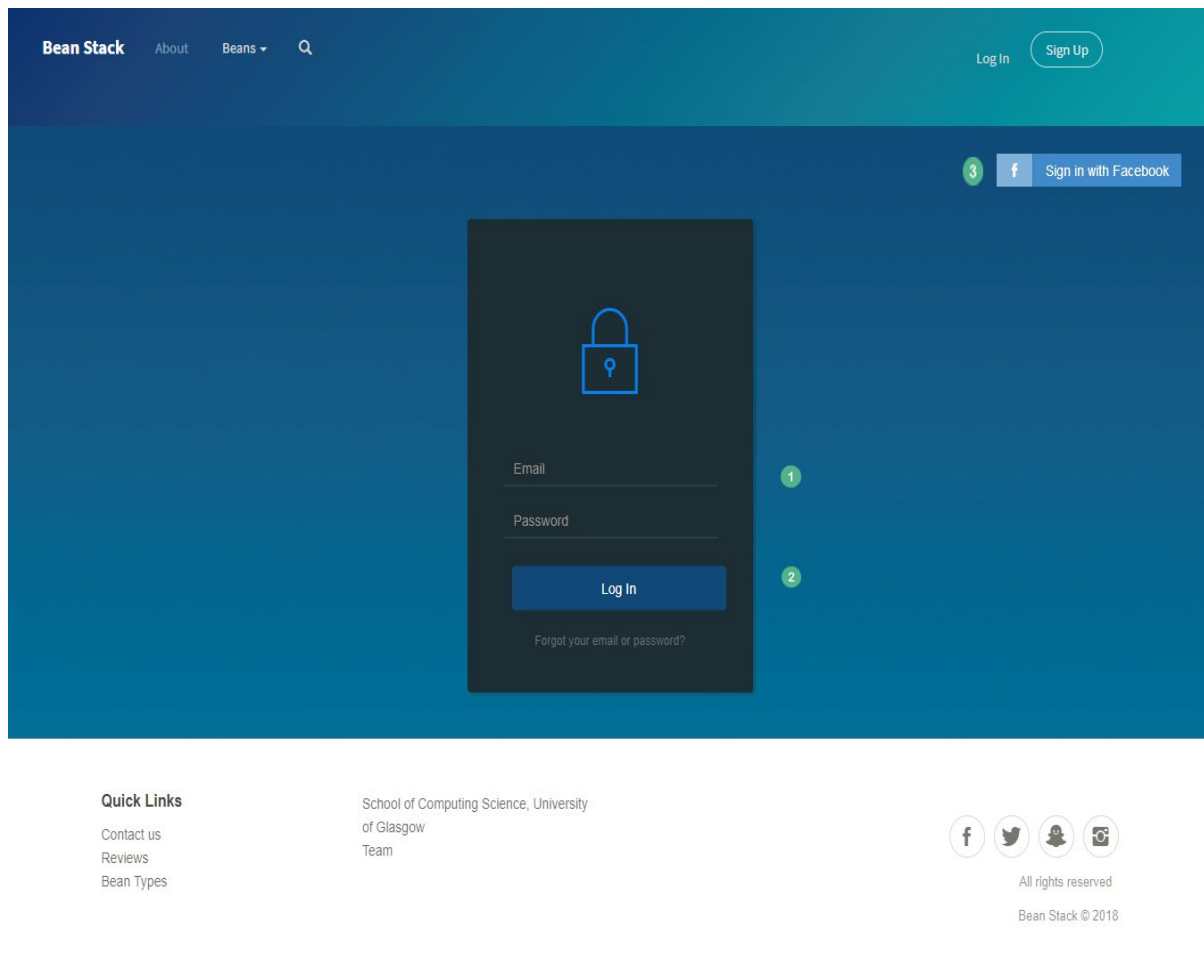Team

f 🐦 👻 📷

All rights reserved

Bean Stack © 2018

WIREFRAMES

Browse Page

Legend:

1 - Filter checkboxes for users to search with precision.
2 - Sorting dropdown to order the search results.
3 - Pagination for users to traverse through the search result pages.

Note:
- Users can access the browse page only once they have logged into their accounts.
- Users can access their account page by clicking on the My Account button.
- Users can also view the product page view past reviews and add their reviews by clicking on the "Add a review" button.

WIREFRAMES
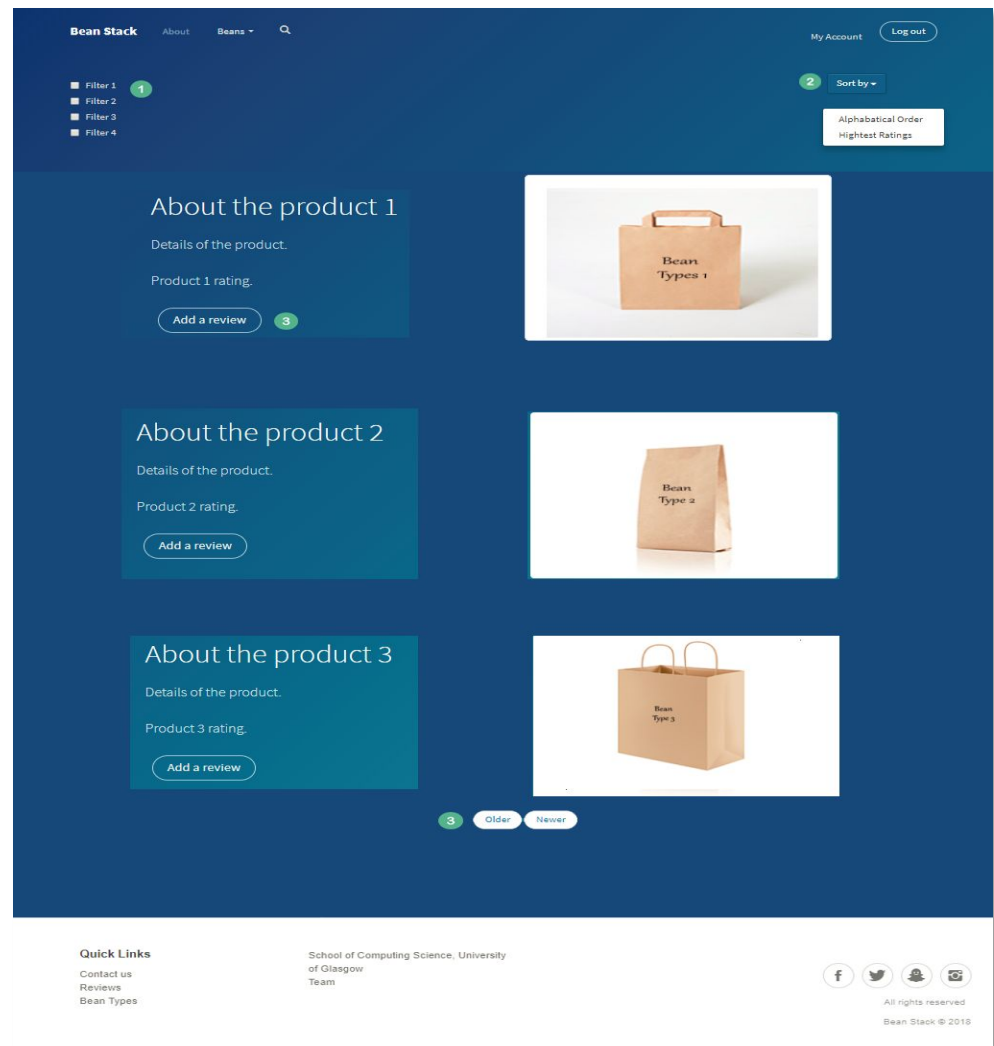
Product Page

Legend:

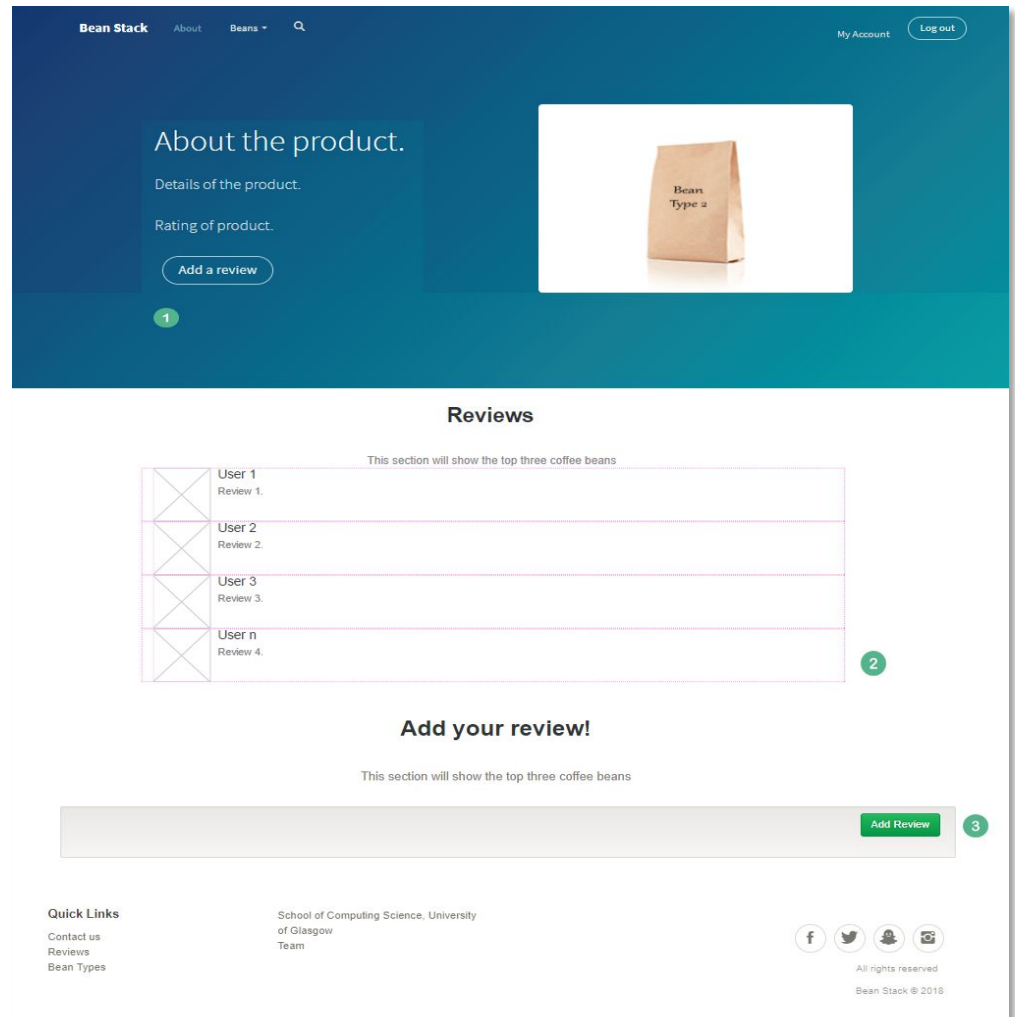**1** - "Add a review" button scrolls down and takes the user to the "Add your review" section and lets them add their review and provide star rating.

2 - "Reviews" section shows the other user's past reviews about the same product.

3 - "Add your review" section lets user add their own review about the product through "Add review" button.

Note:

- Users can navigate to the home or log in page by clicking on Bean Stack Logo or "Log In" button.
- If the users try to access any other part of the site, they will be redirected back to the Sign Up page.

WIREFRAMES

## Add Review and Rating feature

Legend:

1 - "Add a review" button scrolls down and takes the user to the "Add your review" section and lets them add their review and provide star rating.

2 - "Reviews" section shows the other user's past reviews about the same product.

3 - "Add your review" section lets user add their own review about the product through "Add review" button through an extended window where in users can write the review and provide star ratings for the product.

Note: The review window opens when the user clicks on the "Add Review" button and this page is only accessible once users have logged into their accounts.
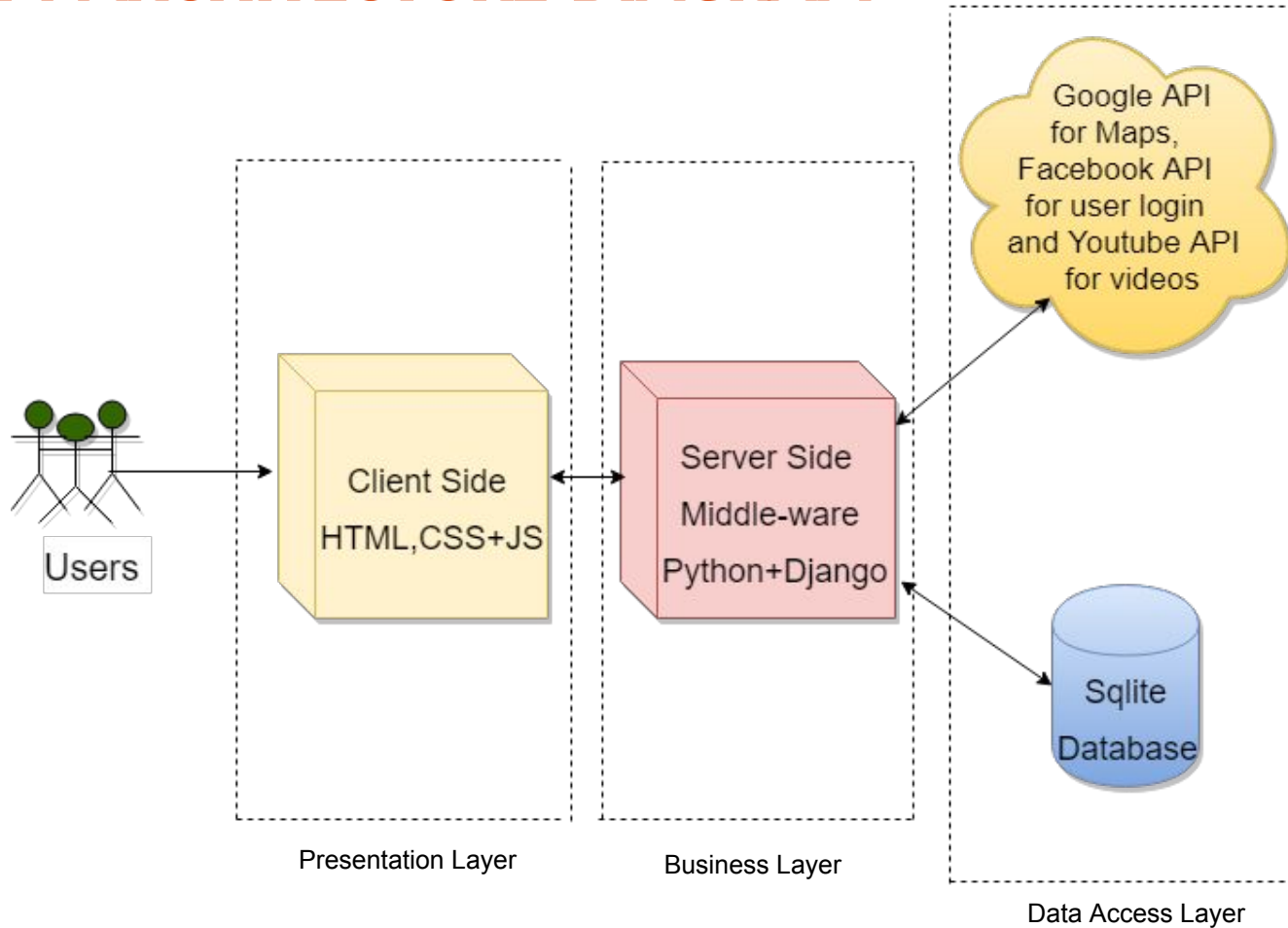
WIREFRAMES
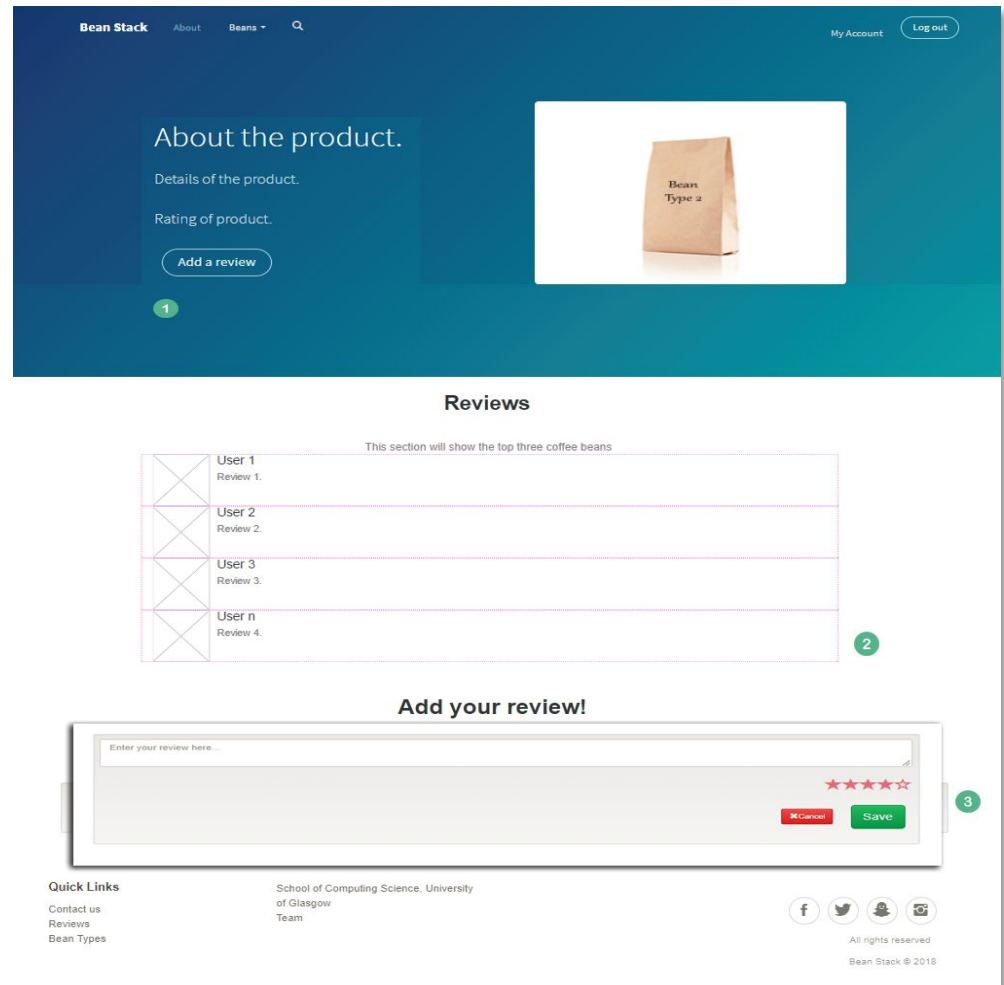
My Account Page

Legend:

1 - Lets the user upload their profile picture.
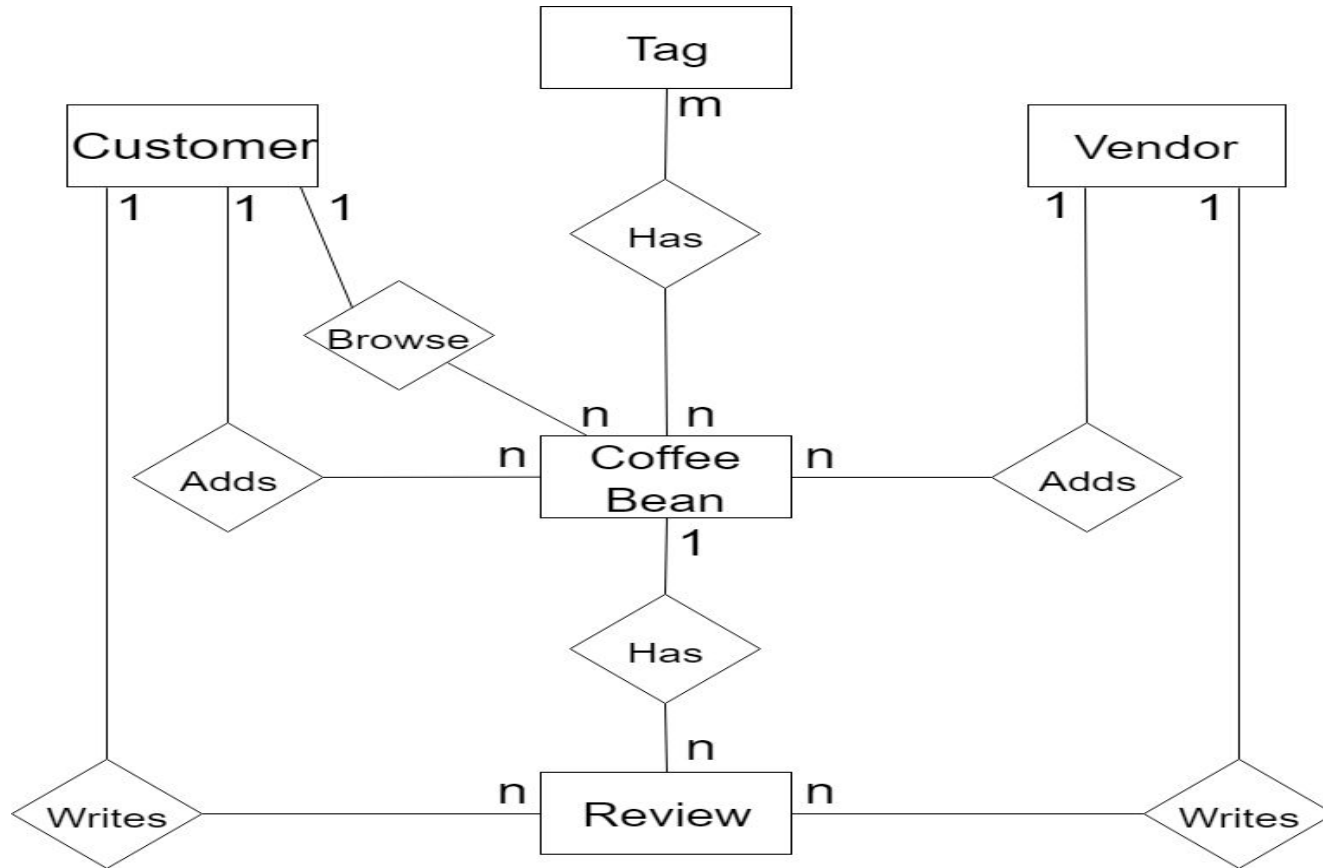**2** - Lets the user fill in their profile details and save them to be shown on their profile.

Note:
- Users will be able to make these changes and fill in details about them on the account page only after they have logged into the system.
- Users will be able to see the same information on their profile page as entered and saved on the account page.
- Similar page will be there for vendor's account.

Bean Stack   About   Beans ▾   🔍   My Account   Log out

My Account

Full Name
[   ]

Address
[   ]

Contact
[   ]

My Favourite Coffee Product
[   ]

Email
[   ]

Password
[   ]

Confirm Password
[   ]

Choose file   No file chosen

1   **2**

3   CANCEL   SAVE

Quick Links
Contact us
Reviews
Bean Types

School of Computing Science,
University of Glasgow
Team

All rights reserved

Bean Stack © 2018

SYSTEM ARCHITECTURE DIAGRAM

Google API for Maps, Facebook API for user login and Youtube API for videos

Client Side
HTML,CSS+JS

Server Side
Middle-ware
Python+Django

Users

Sqlite
Database

Presentation Layer

Business Layer

Data Access Layer

ER DIAGRAM - ATTRIBUTES

Customer

Field	Type
userID	IntegerField
fullname	CharField
email	EmailField
password	CharField
address	CharField
telephone	IntegerField
favourite_coffee	CharField

Vendor

Field	Type
userID	IntegerField
name	CharField
email	EmailField
password	CharField
shopUrl	CharField
address	CharField
telephone	IntegerField
description	CharField

Coffee_Beans

Field	Type
coffeeID	IntegerField
name	CharField
image	ImageField
location	CharField
descreption	CharField
average_rating	FloatField
type	CharField

Review

Field	Type
coffeeReviewID	IntegerField
userID	ForeignKey
coffeeID	ForeignKey
rating	FloatField
comment	CharField

Intermediate_Tags

Field	Type
coffeeID	ForeignKey
tagID	IntegerField

Tags

| Field	Type
tagID	IntegerField
name	CharField

WALKTHROUGH

Once the user logs in to the website, they land on to the home page where they will be able to view the search bar and the top ten most popular beans. They can then search for the name of the coffee or select from the most popular ones given on the home page. When they search, they can enter the coffee bean name or any of the search tags containing flavours and (or) location to make the search more comfortable and efficient. If they search and the system can find the matching coffee bean, then they will land on a new browser page where they can traverse through the list of results.

On the same browse page, the user's will have an option to filter out the result based on the past user-ratings, flavour and the location. The user can then click on their desired result, and that will open a new page with the details of the coffee wherein they can view the details and read other user reviews for that product. There would be two buttons namely "Add Review", "Find Coffee" and "Save Coffee". When the users have tried a specific coffee, they can come back to this page and add their review using the "Add Review" button.

If the users want to find the location where that specific type of coffee would be available, then they can do so using the "Find Coffee" button. Users can also save coffees that they would want to experience in the near future as a wish list using "save coffee" button.
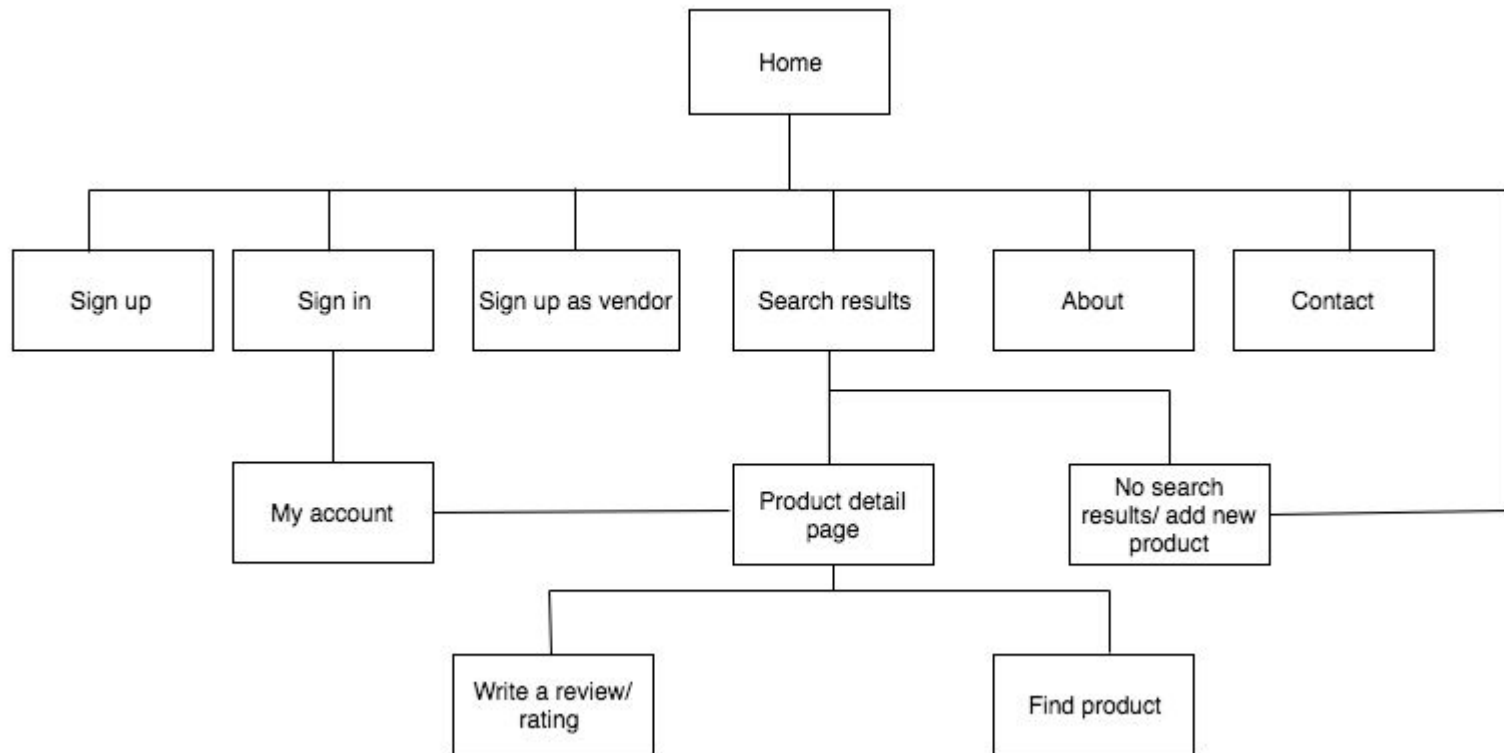
SITE URLs

- /home
- /signup-consumer
- /signup-vendor
- /sign-in
- /<user-name>/myaccount
- /<user-name>/myaccount/edit
- /search/<query-string>
- /product/<product-id or product-name>
- /addproduct/< to be - product-id or product-name>
- /product/<product-id or product-name>/write-review
- /product/<product-id or product-name>/find-product
- /about-us
- /contact-us

THANK YOU.