IST 411 Software Engineering: Front-end Design and Development

Project Information

Developer name: Ryan Lasauskas

Recognize

Project description

In your description, include a description of the API to be used, the user interaction, and how the information will be used and displayed for the user.

API: Open Brewery API

User Interaction: The user can select a variety of filters such as state, type, city, and name. The city and name parameters will likely be done as text boxes while state and type will be done as dropdowns. Use of a form to submit the selected criteria and display results.

Potential checkbox to ask the user for what information to display. This will likely be an extra time type of thing.

Search by ID number may be used as well via text box.

Display: Display results as a "card" potentially using bootstrap for a nice template where each important field can be displayed with the information.

Project Plan

Add rows as needed and renumber as appropriate when adding your milestones.
At a minimum, add a milestone for the completion of each user story in the Analyze section.

Milestone	Description	Complete by	Done
	Sprint 1 begins	Thur, 4/15	4/22
R1	Project assigned	Thur, 4/15	4/15
R2	API		
R2.1	Research APIs	Mon, 4/19	4/15
R2.2	Select API and confirm with instructor	Mon, 4/19	4/15
R3	Project Information document		
R3.1	Download, rename, modify and submit (initial)	Mon, 4/19	4/21
R3.2	Update and log project activity	Ongoing	
R4	Sprint 1 midpoint standup due by 9:00am via email	Mon, 4/19	4/18

	Sprint 2 begins	Thur, 4/22	4/29
R5	Sprint 2 midpoint standup due by 9:00am via email	Mon, 4/26	
R5.1	Practice with additional tools (research if needed)	4/29	
R5.1.1	Less	4/29	
R5.1.2	Vue.js	4/29	
R5.2	Practice with the API	4/29	
R5.3	Find potential page designs	4/29	
	Sprint 3 begins	Thur, 4/29	5/6
R6	Sprint 3 midpoint standup due by 9:00am via email	Mon, 5/3	
R6.1	Begin developing the final page	4/29	
R6.2	Finish final page and post bugs if needed	5/6	
R6.3	Fix bugs	5/6	
	Sprint 4 begins	Thur, 5/6	
R7	Sprint 4 midpoint standup due by 9:00am via email		
R8	Final project		
R8.1	Application, including QA, complete Application files submitted in Canvas	Mon, 5/10	
R8.2	Project Information fully updated in Canvas	Mon, 5/10	
R8.3	Improvements if needed	Thur, 5/13, 6:00	
R8.4	Project Demonstration/Presentation	Thur, 5/13, 6:00	

Analyze

User Stories

Include the completion of each as a milestone in your project plan.
Complete each list item to specifically reflect what your application demonstrates or uses.

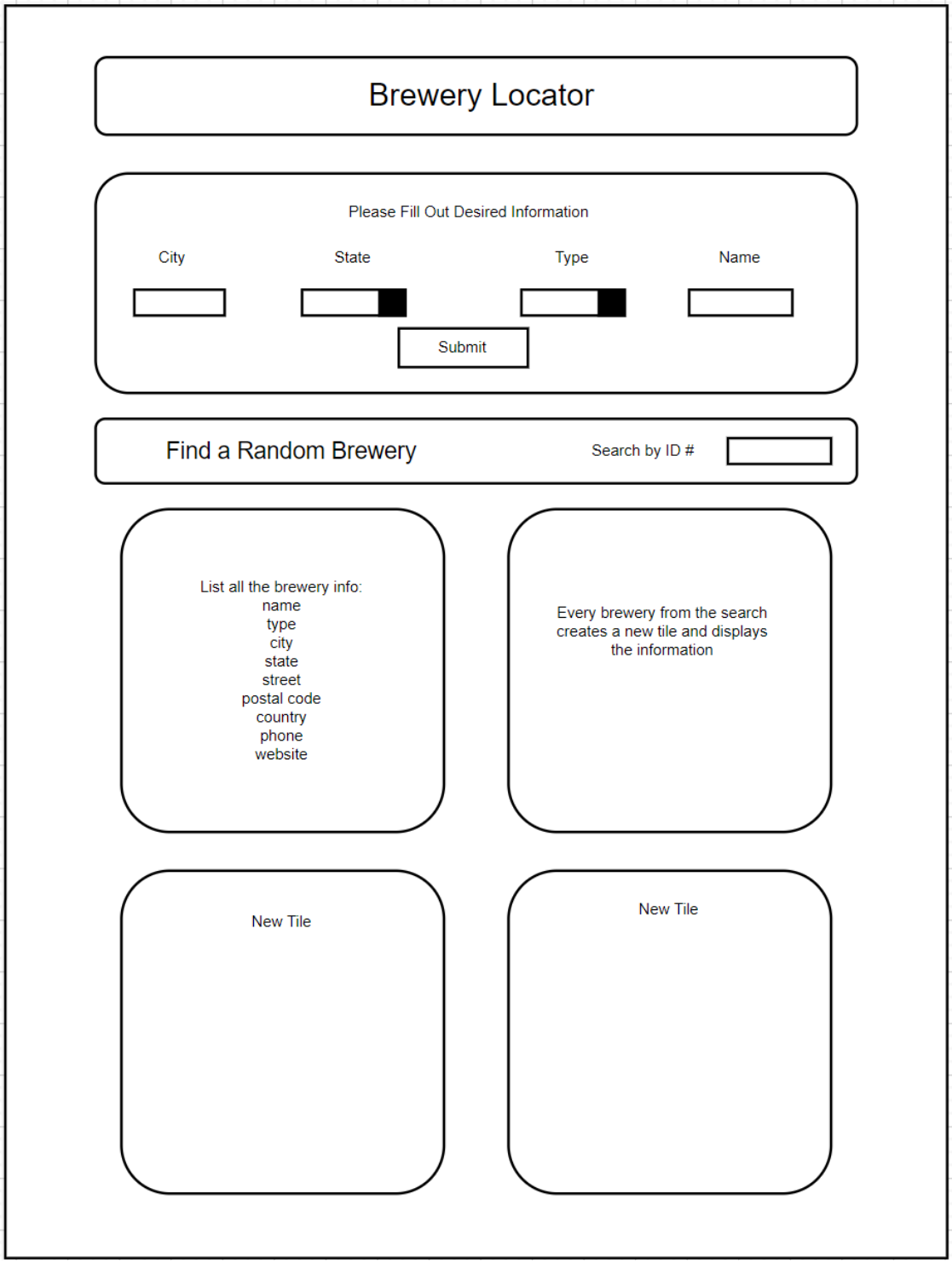
	User story
	Complete all of the following for **full credit**
A1	The application uses an API approved by the instructor to provide information to the user.
A2	The application interacts with the user allowing the user to select an input as described below to determine what information is provided. 1.
A3	The application demonstrates one best practice in front-end design. 1.
A4	The application demonstrates one best practice in responsive design. 1.
A5	The application demonstrates one best practice in accessible design. 1.
A6	**All** of the required front-end tools listed in the Design section are effectively and meaningfully used
A7	**One** additional front-end tool not listed in the Design section is effectively and meaningfully used 1.
A8	All known problems that need to be addressed are listed in the Support section.
A9	All target dates as listed on the Project Plan in the Requirements section are met.
A10	The final presentation demonstrates the completion of all relevant user stories and provides additional information on the new front-end tool used.
A11	Two Quality Assurance (QA) reviews are completed identifying the user stories that are completed and those yet to be completed: 1. Your QA review of your own project (incorporated into your presentation video) 2. Your QA review of a peer's project (peer review assigned in Canvas)
	Additionally, complete the following for **exceptional credit**
A12	The application interacts with the user allowing the user to select two or more input to determine what information is provided. 1. ID # 2. City 3. State

	4. Type 5. Name
A13	The application demonstrates two or more best practices in front-end design. 1. No global variables 2. Comment code thoroughly
A14	The application demonstrates two or more best practices in responsive design. 1. Mobile First 2. Scalable pictures and video 3. Media queries
A15	The application demonstrates two or more best practices in accessible design. 1. Screen Reader 2. Alternate Text
A16	**Two or more** additional front-end tools not listed in the Design section are effectively and meaningfully used. 1. Less 2. Vue.js

Design

Sketch of UI

Insert image.



Description of UX

Clearly explain in detail how the user will interact with the components in your UI sketch, and how your components will behave.

There will essentially be three different ways to search for a brewery.

The first way will be to fill in parameters to narrow the search. The city and name will be text boxes so these will be free to type whatever but will only work if typed correctly. The state and type parameters will be dropdown boxes as they only have so many to choose from and are less variable than the other options. A submit button will call the api and when the results come in they will be displayed lower on the page where each separate brewery will have its own card with the corresponding information.

The second way to make the api call will be to search by id number. It is a simple way to search but the id number to brewery relation is only in the api's dataset so the id number is useless anywhere else. This would be a nice and easy way to find a brewery that the id number is already known. Also displays the brewery like before

The third way to make the api call is to do a random search. The search will generate a random number between 8034 and 15895. It does the same api call as before only utilizing the id number. Also displays the brewery like before.

Required front-end tools being used as part of the technology stack

Tool	Purpose
HTML, CSS, Javascript	Foundational front-end technologies
VS Code	Code editor/Integrated Development Environment (IDE)
Source/version control	git/Github
Bootstrap	Front-end CSS framework
React (also called ReactJS)	Javascript Library

Additional front-end tools being used as part of the technology stack

Create an entry for any tool you meaningfully use in completing your application

Tool	Purpose
Required:	Less
Exceptional (optional):	Vue.js

Implement

Project log

Update with an entry for each time you work on the project.

Date	Minutes	Project activity performed
4/15/21	180	Completed all material on this page under Recognize, Analyze, and Design

Support

Known problems

Update with an entry for each known problem that needs to be addressed.

Priority: As a result of the problem,
High - the application is not functional and/or the user experience is poor.
Medium - the application has an exception that negatively impacts the user experience.
Low - the user experience could be enhanced.

Date entered	Priority	Description of problem

User instructions

Provide instructions to the user if necessary