2022 Coding Competition Finals

The Problem

Congratulations on your success with the first round of the 2022 State Farm Coding Competition. This time around, we would like to give you more flexibility with your new assignment.

You have been contacted by your local insurance agent to create an MVP for a Customer Management System (GUI and Backend). It should allow the insurance agent to manage their customers as well as gather contact information for those customers. The agent has provided the dataset of customer information to get you started! (This can be found in the GitHub repo: customerData.csv).

For both the GUI and Backend, the agent has given you freedom on whatever tooling suits you best. If you're unsure where to begin, we recommend the following depending on your skillset:

Language	Framework
JavaScript	React, Svelte, Vue, Angular, etc.
Python	Django, Flask
Java	VAADIN

If you don't have much experience with the languages above, feel free to utilize HTML/CSS/JavaScript.

Requirements

The CSV provided is an agent's book of business, containing information about all their customers. The agent wants a summary view of this data so they can quickly view a customer's: first name, last name, phone number, email, and status. Additionally, the agent would like to be able to select any customer and view the remainder of their information contained in the CSV. The agent would also like the ability to search the summary data to access a specific customer. The final requirement is the ability to add new customers to their book of business, following the same schema as the CSV.

Due to time constraints, don't worry about data validation and error handling. Your application can run locally and doesn't need to be hosted. For grading purposes include a readme in the root directory on how to your submission. A template readme will be included.

Additional Considerations

Alongside the above requirements, the agent also provided a few nice-to-haves that would make for a more robust application, including:
- the ability to update and delete customer data/records
- material design
- responsive design
- the ability to sort customers' data
- accessibility**
- animations
- your own simple logo

** While accessibility is typically a vital consideration for any production application, due to time constraints, it is not required.

When You Are Done

- Update the feedback.txt file and include the following information:
  - Team member name(s)
  - Document and describe the features included to help the judges properly grade your submission and explain how to properly execute.

Rules

- Contestants cannot seek help from individuals outside their team.
- Contestants may use the internet to do searches about code/framework functionality, but we **do not** want you to download a data analytics tool to process the data. We want to see what type of features you can provide using your application alone.
- Contestants may not alter the schema of the provided data.
- Contestants must submit a GUI for credit. CLI-based applications will not be considered.

Presenting Your Submission

During your presentation you'll be asked to provide the following information:
- Your team name
- A short bio of each team member
  - School name
  - Graduation date
  - Degree path
- Any relevant personal links (LinkedIn, GitHub, etc.)
- Profile pictures
- Whatever other info you think is relevant

How You Will Be Graded

The finals competition is broken up into three sections of grading:
- Initial Online Competition – 10 points
- Presentation – 10 points
- Finals Code review – 10 points
  - code cleanliness
  - maintainability
  - adherence to object-orientated principles

Links to Get You Started

- React
- React Query
- Tailwind – Styling Utility for JavaScript Frameworks
- Svelte – Basics
- AngularJS
- Flask
- Django
- VAADIN
- Material Design – Design Principles