AdvantEdge Digital Front End Design

Language/Framework/Toolchain

Requirements:

1. "The primary tools you'll be expected to use at this job are modern React/Redux with Typescript."
2. Multiple pages
3. Mock fetch call for backend communication

Decision:

1. Will use the basic Create React App.
   a. Also considered Gatsby since it is recommended in the React docs for static multi-page content-oriented websites. Positives: quick, SEO-friendly React-based websites. Decided against it for scope-creep reasons. And if this were a full development project, current app could easily be ported to Gatsby in the future.
2. Will use .tsx components to support TypeScript.
3. Mirage JS to mock API calls

High Level Technical Design

Pages

Page	Path	Requirements
Landing Page	/	Form ● Auto Purchase Price (Currency) ● Auto Make (Text) ● Auto Model (Text) ● User Estimated Yearly Income (Currency) ● User Estimated Credit Score (Number from 300-850) Space for Marketing Copy Controls for moving forward
New Account Page	/create-account	Form ● Username (Text) ○ Validate as email ● Password (Text)

		○ > 8 characters ○ Number or special character
Disqualification page	/disqualified	Display: ● Disqualification message that comes from the api call ● Fake information to get in contact with customer service. No further way to get off this page or re-enter the information.

Mock API

Endpoint	Request	Response
/api/submit-application	Purchase price > ⅕ income	Disqualifying message
/api/submit-application	Credit < 600	Disqualifying message
/api/submit-application	Auto purchase above $1,000,000	Bad request
/api/submit-application	Otherwise	Positive qualification flag