Multi-Step Form Implementation

Design Decisions

- 1. This form uses scalable components like Stepper, Progress Bar, Input Fields, and Navigation Buttons.
- 2. The Progress Bar provides visual feedback on form completion.
- 3. Step Indicator helps user to understand their current position.
- 4. Enhances user experience with animations.

Code Structure

- 1. Modular Javascript Functions: Functions for validation, progress updates, and navigation are separated for better maintainability.
- 2. CSS: Responsive design using media queries for mobile-friendliness.
- 3. Error Handling: Shows inline error messages for better feedback.

Error Handling Strategies: Client-side error handling ensures that users get immediate feedback on incorrect inputs before going to the next step.

- 1. Inline Validation checks as the user types, the form check if the input is valid or not. If incorrect, an error message appears, like enter 10-digit phone number.
- 2. Required Fields Check user cannot move to the next step if required fields is empty.
- 3. Step Validation Before moving to the next step, the form checks all fields in the current step.

Scalability & Usability Enhancements

- 1. Implement React, Vue, or Angular to manage the state efficiently.
- 2. Store form progress in localStorage or sessionStorage to prevent data loss.
- 3. Store form data in NoSQL(MongoDB, Firebase) or SQL database based on conditions.
- 4. Implement auto save to continue the form where we leave.
- 5. Add multi-language support to make the application accessible to a global audience.