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Mini Form Builder

By Group 2



NO-CODE DEVELOPMENT



Mini Form Builder

A No-Code Form Building Tool

Drag-and-drop interface for creating functional forms with real-time HTML export and visual customization.



DEVELOPER
Project Team



DATE
2026

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INTRODUCTION

What is Mini Form Builder?

A lightweight no-code tool that enables users to create functional web forms through an intuitive drag-and-drop interface, eliminating the need for manual HTML/CSS coding.



Drag-and-Drop Interface

Intuitive element placement



Nested Structure Support

Recursive container handling



Instant HTML Export

Clean code generation

KEY UI COMPONENTS



Sidebar

Draggable elements: Text Input, Checkbox, Button, Container



Canvas

Form building area with visual element placement



Properties Panel

Customize labels, placeholders, and element attributes



HTML Export

Generate ready-to-use form code snippets



Technical Foundation: DOM Traversal & Recursion for handling nested container structures



Key Features & Capabilities



Drag-and-Drop

Intuitive element placement with visual feedback and positioning controls



Visual Customization

Modify labels, placeholders, and properties through properties panel



Real-time Preview

Instant visual feedback as elements are added and modified



Nested Containers

Organize form sections with hierarchical container structures



HTML Export

Generate clean, production-ready form code with single click



Element Types

Text inputs, checkboxes, buttons, and containers available

CORE ARCHITECTURE

Technical Concepts



DOM Traversal

Navigating and manipulating document structure dynamically



Recursion

Handling nested containers through recursive rendering



Object-Based Model

JavaScript objects representing form elements

Element Data Structure

JavaScript object schema for form tree

```
const element = {  
  id: timestamp,  
  type: 'text' | 'checkbox' | 'container',  
  label: 'Form Label',  
  placeholder: 'Placeholder text',  
  children: [] // Nested elements  
};
```



Event Handling

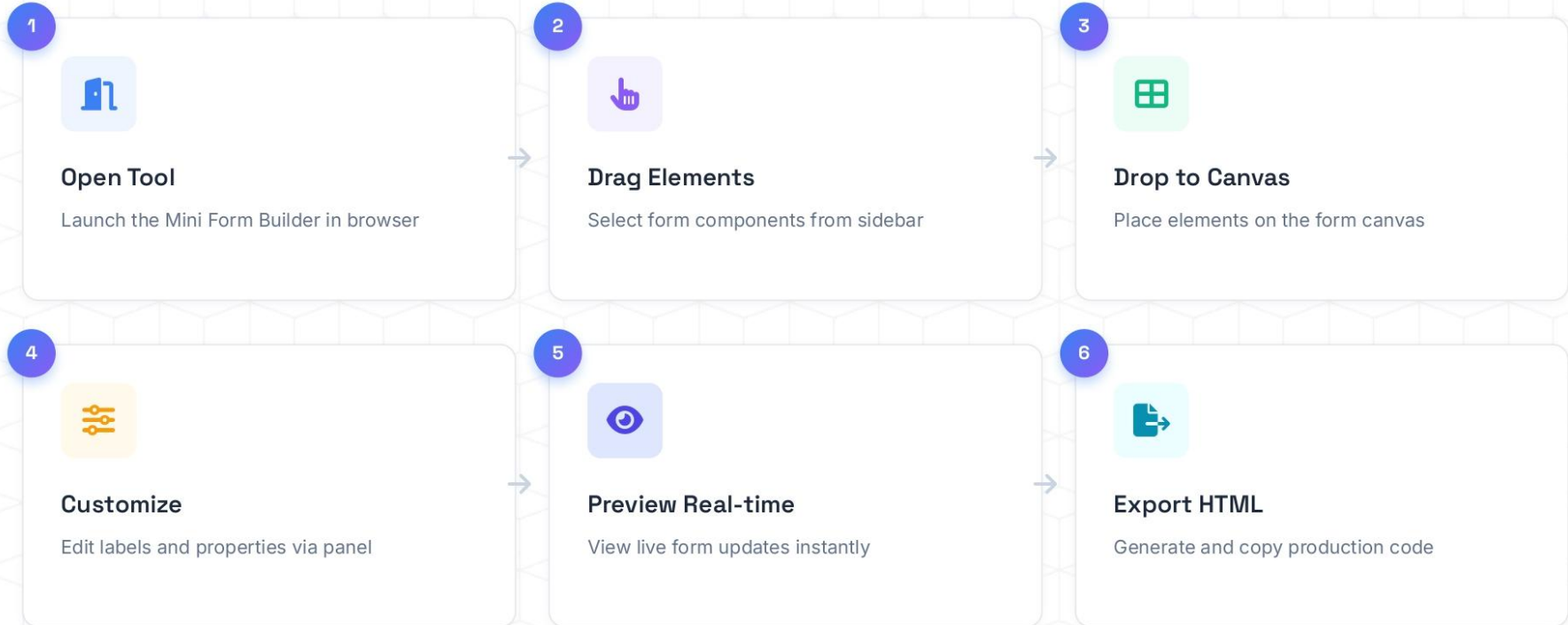
dragstart, dragover, drop events for element placement



Dynamic Rendering

Create DOM elements on-the-fly with live updates

Expected Workflow Process



Code Architecture

HTML Structure

Three main sections: Sidebar (draggable items), Canvas (form builder), Properties (customization panel)

CSS Styling

Flexbox layout, element styles, responsive design patterns

JavaScript Core

formTree array, event listeners, recursive rendering, HTML export functions

```
let formTree = [];  
createElement(type) {  
  return { id, type, label, children }  
}
```



Key Benefits



Rapid Prototyping

Create forms instantly without writing code



Time & Cost Savings

Reduce development time and resources significantly



Intuitive Interface

Drag-and-drop design for seamless user experience



Real-time Preview

Instant visual feedback as you build

Use Cases



Web Developers

Quick form templates and component libraries



UI/UX Designers

Prototyping form layouts and interactions



Non-technical Users

Creating simple forms without programming skills



Educational Purpose

Learning HTML/JavaScript through hands-on building



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Thank You