**Flowchart Outline**

1. **Start**
   * Load the index.html file with linked style.css and script.js.
2. **Setup**
   * Create SVG container and tooltip using D3.js.
   * Define projection and path for the map.
3. **Load Data**
   * Fetch GeoJSON for map shapes.
   * Fetch REST Countries API for additional country information.
4. **Process Data**
   * Map country names from GeoJSON to API data.
   * Add capital and area properties to GeoJSON features.
   * Handle missing or invalid data with default values.
5. **Draw Map**
   * Bind GeoJSON data to SVG paths.
   * Set styles for countries (fill color, borders).
   * Render countries on the map.
6. **Add Interactions**
   * **On Mouseover**:
     + Highlight country with a new color.
     + Display tooltip with country name, capital, and area.
   * **On Mouseout**:
     + Remove highlight.
     + Hide tooltip.
7. **Error Handling**
   * Handle loading or mapping errors for data files.
8. **Finish**
   * Map is rendered and interactive.