**2D Designs**

**Fabric Selection**

100% Polyester
Aesthetically used for the front dress construction because of its desirable qualities. It is lightweight, soft hand, that is durable, and shape retaining.

Polyester and Spandex Blend
Functionally used for the dress back construction to provide the girl comfort while allowing for stretch and movement.

**Color Palette**

The color red is commonly associated with strength, joy, courage, radiance, and determination, all qualities that could be found within the girl wearing the dress. This color was intentionally chosen to empower the girl and support her confidence.

**Alternate Views**

This dress was designed to be modular to provide the girl ease in dressing & allow different design combination.

**Color Inspiration Board**
**TARGET CUSTOMER**

**NON-AMBULATORY HIGH SCHOOL GIRLS**
This dress was designed specifically for a high school girl (14-18 years old) attending a prom or formal event. Since a wheelchair assists her in daily movement, specific needs were carefully considered:

**SELF-DRESSING (Don and Doff)**
- Each piece of the dress can be put on by the girl herself

**SEATED POSITION**
- The skirt back is designed with a high back to prevent sliding down
- The top’s length falls just above the natural hip bend while seated

**COMFORT**
- The entire back of the dress is constructed with a polyester/spandex blend providing stretch and movement
- The skirt back is created without any seams preventing discomfort in the seated position

**WHEEL ACCOMODATIONS**
- The skirt bottom piece has a higher hem in the back without any ruffles to prevent getting caught in the wheels

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**DRESS INSPIRATION BOARD**

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**GARMENT FEATURES & FUNCTIONALITY**

- **FLOUNCE SLEEVE**
  Fashion forward & allows for full range of arm motion

- **FRONT SEPARATING ZIPPER CLOSURE**
  Accessible to dress and simple to close

- **FLARE**
  Allows for comfort in seated position

- **HIGH-RISE BACK**
  Provides comfort in seated position and allows skirt to maintain position on body

- **SKIRT SEPARATING ZIPPER CLOSURE**
  Skirt unzips into flat piece allowing ease in dressing

- **SEAMLESS SKIRT BACK**
  Allows for comfort in seated position

- **MODEST LENGTH**
  Provides full coverage and comfort

- **MAGNETIC SKIRT ATTACHMENT**
  Magnetic closure facilitates easy attachment

- **DETACHABLE TIERED SKIRT**
  Provides fashionable and trendy appearance

- **RUSSLE-LESS SKIRT BACK**
  Reduces skirt density on back to enhance comfort while seated

- **CURVED HEM**
  Allows for comfortable range of leg motion and limits restriction

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**RESEARCH**

People with differently-abled characteristics often experience dissatisfaction in finding clothing that meets their requirements. Regular clothing available in the market does not facilitating self-dressing and becomes a challenging task to wear. The special functional clothing category, "Adaptive Clothing" emerged in the past decade to address these issues. In this work, wheelchair users are the target population. This garment has been designed using a Modular Design concept to address the functional needs, specifically independence, without compromising aesthetic attributes.