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Futuristic Shoe Problem Statement

Currently, children have to buy new shoes every year because their feet are always growing. The new futuristic shoes will grow with the child. At age 5, a child will go to the futuristic shoe store and purchase a new pair of shoes. As the child's feet grow, the shoes will stretch to fit for up to 5 years. These shoes must have a structured sole that automatically adjusts to the child's foot size. The top of the shoes will be made of flexible material that adjusts as the foot grows. The shoe will have both an autosensing function and a manual adjustment setting to allow for maximum custom comfort. The sole will be developed first, then the stretchy material, with the prototype being delivered to the client in one year. The target environment is anywhere normal shoes go. Three different sizes will be made and presented to the client, small, medium and large, that each covers a range of shoe sizes. Kids will heavily test the shoes in different environments, and the necessary adjustments will be made before going into mass production.