



Background

Horticulture-Related Lifestyle Characteristics of Elderly Individuals

Chinese elderly prefer a slow-paced lifestyle and favor low-intensity activities like tai chi, walking, and neighborhood socializing. As a core leisure activity, gardening suits their physical condition—it allows them to connect with nature, gain a sense of achievement, and improve hand-foot flexibility. Additionally, it calms their minds, adds joy to life, and home-grown produce meets their demand for a healthy diet, combining leisure and practical value.



User questions

- Portability Requirement** → Difficult to carry in elevator-free buildings, poor mobility
- Organization Requirement** → No tool zoning, messy access, low efficiency
- Safety Requirement** → Tools prone to falling/shaking, safety hazards
- Multi-purpose Requirement** → Single function, hard to integrate into daily life, no multi-use



User requirement

Based on the pain points of elderly users, the design focuses on 4 key optimization directions

Portability: Adapted for buildings without elevators to facilitate transportation for elderly users.

Organization: Zoned storage for tools to enhance usage efficiency.

Safety: Prevent tools from falling or shaking during transport.

Emotional: Integrate into daily life to achieve multi-purpose use.

Final Design Scheme

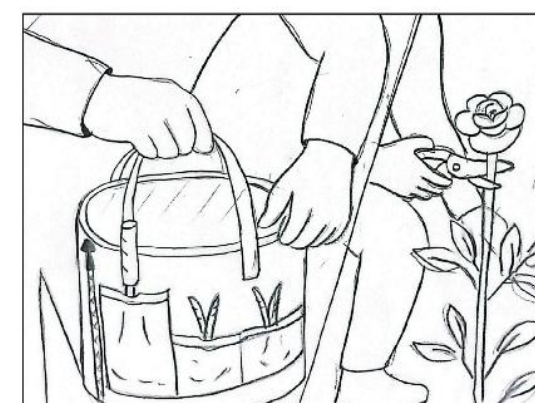
Transformable Cylindrical Organizer

Compact Mode: Functions as a stable tool carrier, ideal for transporting tools to and from gardening areas.

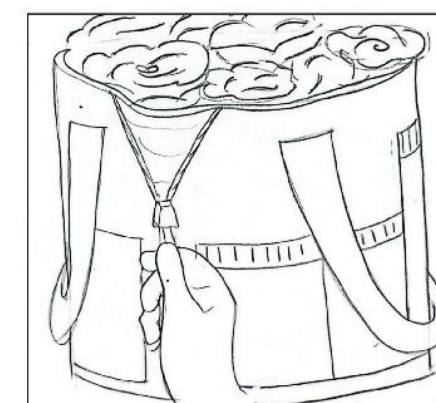
Expanded Mode: Unzip the vertical gusset to increase the circumference, transforming it into a spacious bag for carrying harvested produce or grocery shopping.



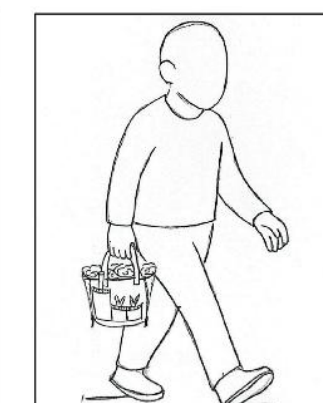
Holding the garden tool bag in one hand allows the elderly individual to use their other hand for support while descending the stairs.



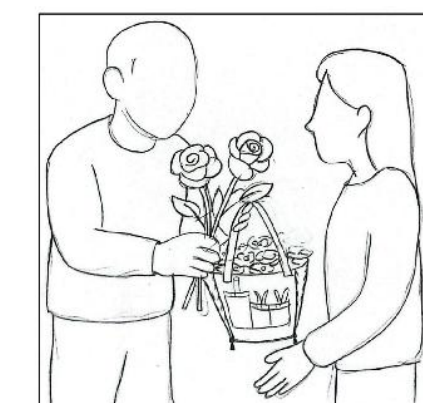
The user removes the pruning shears from the protective pocket and proceeds to harvest the roses.



After filling the inner compartment, the user opens the expansion zippers to increase capacity, allowing the harvested roses to fit inside with ease.



The user conveniently transports the roses within the bag to present them as a gift to a neighbor.



Gifting the roses makes the neighbor happy, allowing them to experience a shared moment of joy in their daily lives.

Optimization Details



Tool Stability

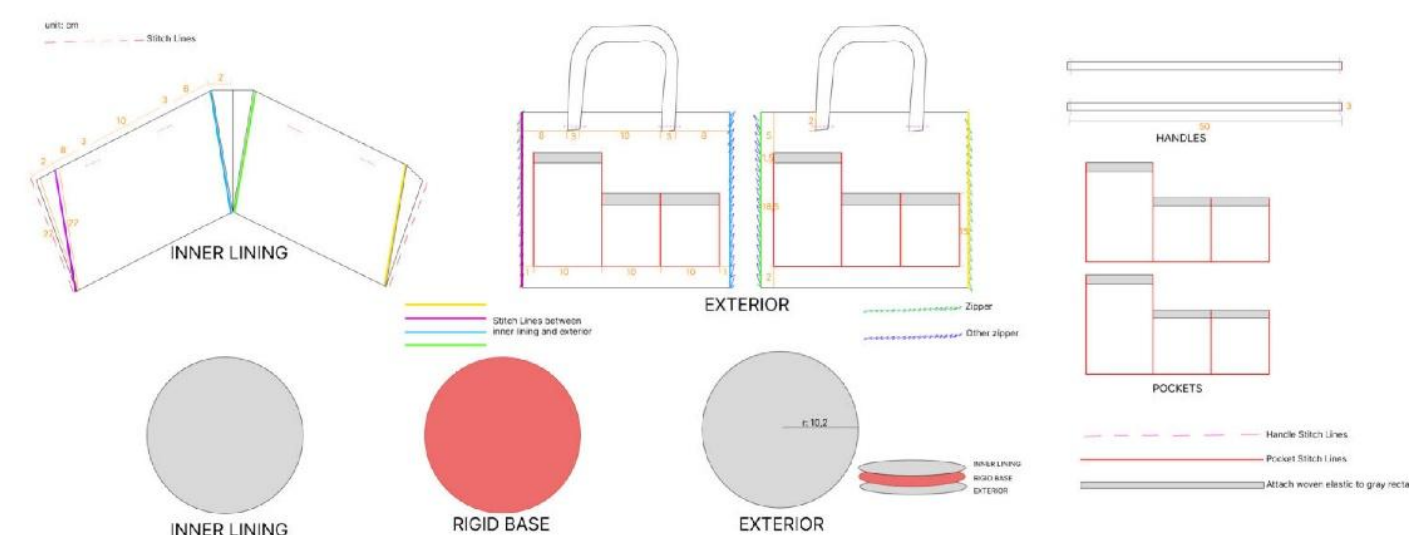
Custom-sized external pockets + adjustable shock cords secure tool handles, preventing wobbling and drops.



Ground Stability

Reinforced "sandwich" base—flat, waterproof, impact-resistant—avoids tipping on uneven soil.

Design Drawings



Fabric and Pattern Selection



Materialization

Outer Shell: 600D Polyester + 3mm EVA Lamination, wear-resistant, semi-rigid self-standing, shock-proof

Inner Lining : 210D Nylon Oxford + PU Coating, lightweight, waterproof, easy-clean, moisture-proof

Rigid Base: 1.5mm HDPE Board, flat, waterproof, anti-deformation

Pockets: 600D Polyester + EVA + Heavy-Duty Elastic Straps, durable, tool-fixing, anti-wobble

Handle: 38mm Nylon Safety Webbing + Reinforced Stitches, high tensile strength, load-bearing

Our Model



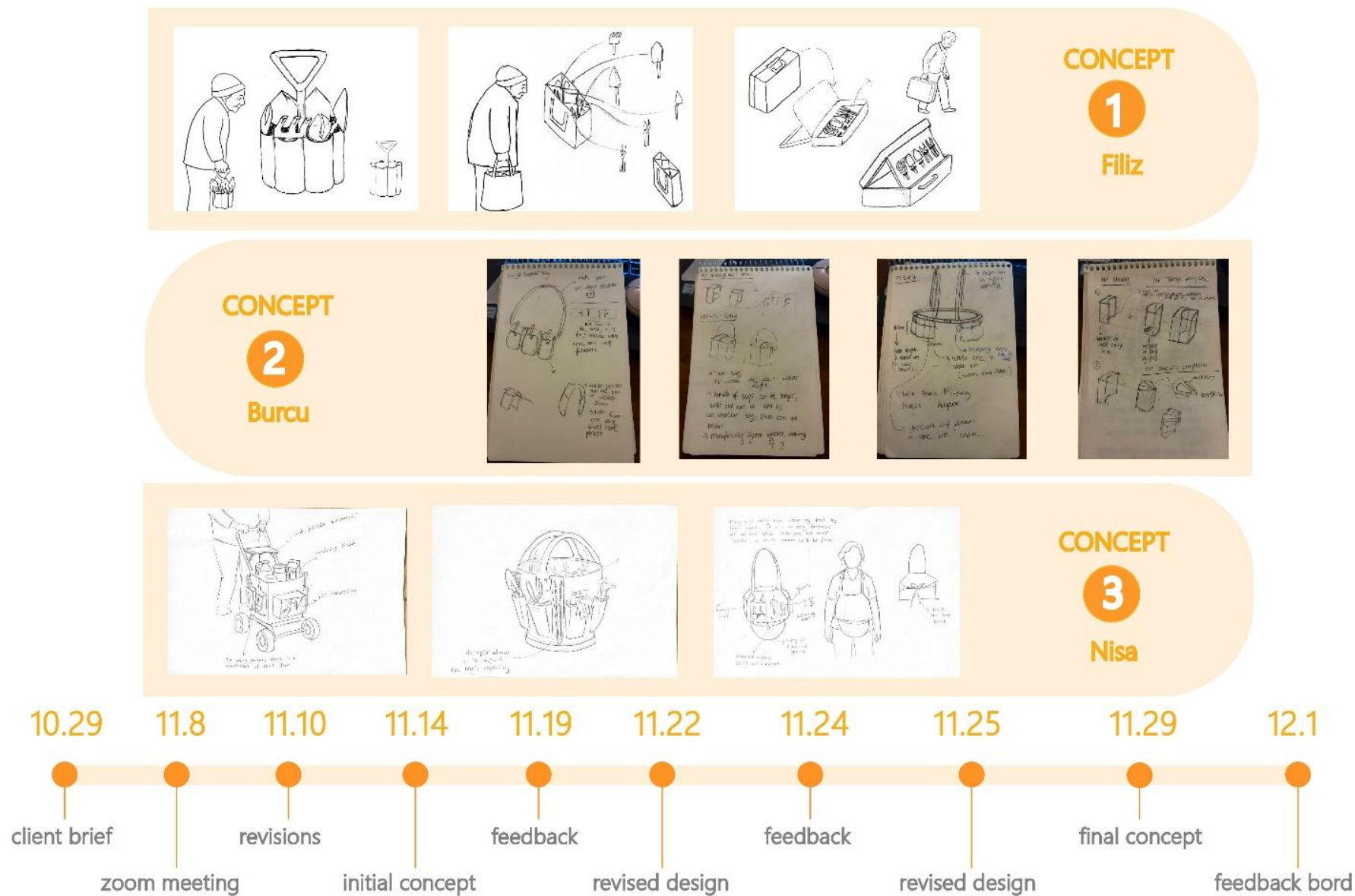
Our model was created by team member Zhao Yichen. Due to limited materials, we could only use ordinary materials for the demonstration, so the final renderings of the product are not presented.

Plan Confirmation Process

Preliminary plan receipt and initial review: After receiving the portable storage bag design plan submitted by the designer, our party will complete the preliminary review, focusing on checking whether the plan meets the core needs of the elderly in use, and form initial review opinions to feed back to the designer.

Details communication and plan optimization: In response to the adjustment directions proposed in the initial review, organize an online communication meeting between both parties to clarify the optimization requirements and time nodes; after the designer completes the plan optimization, our party will conduct a secondary review to confirm whether the optimized content meets the standards.

Final plan confirmation: The other party submits the final plan based on the optimization, and our party produces a simple model and uploads the feedback version and user feedback video.



Client Evaluation and Feedback

overall evaluation

• Solution Alignment:	Excellent	Meet the portable storage needs of the elderly
• Design Rationality:	Excellent	Structural dimensions are suitable for the elderly
• Practicality:	Excellent	Article classification for convenient access.
• Safety:	Good	Less content on material selection

Team Communication and Interaction

We communicate e-mail, Instagram, and WeChat.



Team 10 has been actively cooperating with our work. As designers, they proactively proposed nine design schemes and promptly revised and optimized the final design based on our feedback and suggestions. The final design has effectively addressed our needs. Throughout the entire process, we experienced their great friendliness—whether communicating via social media or meeting in online conferences, we always felt their enthusiasm, which made our cooperation and communication a very positive experience.

Final Score

Based on the above analysis, we have assigned the scores (5-Point score).

Need Comprehension Ability	🌸 🌸 🌸 🌸 🌸
Pragmatic Design of Solutions	🌸 🌸 🌸 🌸 🌸
Communication Response Efficiency	🌸 🌸 🌸 🌸 🌸
Problem - Solving and Optimization Ability	🌸 🌸 🌸 🌸 🌸
Service Collaboration Level	🌸 🌸 🌸 🌸 🌸
Innovativeness of Scheme	🌸 🌸 🌸 🌸 🌸

We are delighted to have had the opportunity to get to know Team 10. Throughout the course, we exchanged insights into each other's national cultures and learned from one another. They approached every interaction with sincere dedication and professionalism, so we have awarded them a full score. We wish them joy, happiness, and all the best in every day ahead!