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**Phase 1: Dressing Fashion Trends**

**1.Purpose:**

The ontology will help in understanding dressing fashion trends, it will analyze the trends and act as styling adviser or recommendation system.

**2.Scope:**

It will cover fashion trends for women casual and formal dresses for various occasions including home, wedding, party and workplace wears.

It will not cover men dresses and fashion trends from various cultures and regions it will just give a recommendation for the dresses that are most trending in events mentioned above.

**3.Implementation Language:**

OWL format

**4.Intended End-Users:**

The young generation from age group 15 to 50 will be intended users of this ontology.

**5.Intended Uses:**

* Current and emerging dressing fashion trends analysis
* For styling recommendations according to events
* For Fashion Education
* E-commerce Integration
* Marketing Campaigns

**6.Ontology Requirements**

**a.** **Non-Functional Requirements:**

The ontology should be interoperable with existing fashion databases, it can accommodate future expansions and updates, have less response time, should handle the data securely and ensure that only authorized users can access the data and provide reliable information.

**b. Functional Requirements: Groups of Competency Questions:**

**7. Pre-Glossary of Terms**

1. What are the specific colors that are associated with a particular fashion trend?
2. Which distinct clothing items are produced or manufactured by a particular fashion brand?
3. Can we identify the clothing items that are deemed suitable for a particular event?
4. Which clothing items are considered appropriate for a specific season?
5. What clothing options are recommended for individuals with a particular body shape?
6. How are clothing items, their corresponding brands, and suitable dress codes interconnected?
7. What are the precise names and locations of various events within the dataset?
8. What comprehensive details characterize the recommendation system, including the utilized algorithm and its performance metrics?
9. What are the distinctive personal preferences and stylistic inclinations expressed by individual users?
10. Could we provide insights into outfit planning by revealing event descriptions and associated budget ranges?
11. How do specific fashion trends correlate with particular clothing items?
12. Can we enumerate the diverse colors linked with each clothing item?
13. What clothing items are exclusively attributed to each fashion brand?
14. Which dress codes are specifically recommended for each clothing item?
15. What clothing options are deemed suitable for attendance at each event?
16. Which clothing items are endorsed for wear during each season of the year?

**a. Terms from Competency Questions:**

1. Emerging Styles
2. Current Styles
3. Styling Tips
4. Casual Occasions
5. Formal Occasions
6. Seasonal Trends
7. Fashion Brands
8. Fashion Designers
9. Color Combinations
10. Party
11. Wedding
12. Cultural Backgrounds
13. Age Groups
14. Outfit Planning
15. Budget
16. Preferences
17. Browsing History
18. Attributes
19. Patterns
20. Stylings
21. Occasion-specific Dressing
22. Trend Analysis
23. Recommendation System

**b. Terms from Answers:**

1. Bright Colors
2. Large Size Gowns
3. Color Blocking
4. Layering
5. Mix and Match
6. Cocktail Dresses
7. Business Casual
8. Seasonal Fabrics (e.g., Linen and silk for Summer, Wool for Winter)
9. Ready-to-Wear
10. High Street Brands
11. Luxury Labels
12. Monochrome
13. Gowns
14. Tailored Suits
15. Sustainable Fashion
16. Embroidered Dresses

**c. Objects:**

1. Emerging Styles
2. Current Styles
3. Styling Tips
4. Casual Occasions
5. Formal Occasions
6. Seasonal Trends
7. Fashion Brands
8. Fashion Designers
9. Color Combinations
10. Party
11. Wedding
12. Cultural Backgrounds
13. Age Groups
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15. Budget
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17. Browsing History
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31. Seasonal Fabrics
32. Ready-to-Wear
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37. Tailored Suits
38. Sustainable Fashion
39. Embroidered Dresses