1. Google Forms Matrix System

* workflow

1. User enters the form: the user opens the Google Forms form and sees different items (rows) and scoring options (columns, 1-7).
2. Selecting and scoring items: the user needs to select up to 7 items from the form that they are interested in and score each item on a scale of 1-7, with 1 being the lowest preference and 7 being the highest preference.
3. Submit Form: Once the user has completed the selection and scoring, click the Submit button.
4. Data Collection: The system automatically stores the user's selections and scoring results into Google Sheets, with each row representing a user and each column recording the user's scores for the items.
5. Data Export: Administrators can export the data to an Excel sheet for analysis, counting the selection frequency and score distribution of each item.

* Business Process

1. Information collection: Collect information about each user's preference for different items.
2. Data Aggregation: Aggregate all users' rating data into a single form for subsequent analysis.
3. Analyzing User Preferences: Use the data in the form to analyze the distribution of users' item preferences and understand which items they have a stronger interest in.
4. Pulley free distribution system

* workflow

1. User enters the system interface: the user enters the system and sees the 7 selected items listed on the left side, and on the right side is a pulley for each item, which is used to adjust the score, ranging from 1-7 points.
2. Adjusting scores: Users assign scores to each item by dragging the slider wheel, the scores can be adjusted freely and the scores of each item are not affected by other items.
3. Submit Result: After the user finishes assigning scores, click the Submit button.
4. Data storage: The system records the scores that the user has scored for each item and stores the data in a database or Excel sheet.
5. Data Export: Administrators can export data to view each user's choices and score assignments for further analysis.

* Business Process

1. Free Score Distribution: Users are free to choose items and assign scores (1-7) to each item as they see fit.
2. User preference analysis: By analyzing users' scores for different items, we derive the distribution of users' preferences and understand which items have received high ratings.
3. Data Integration and Decision Support: Aggregate the results of user scoring to help decision makers make decisions based on user preferences, e.g. which items are more popular.
4. Fixed Total Distribution System

* workflow

1. User access to the system interface: the user enters the system and sees the 7 items they have selected, along with the corresponding pulleys for assigning points.
2. Assigning a fixed total score: The system sets a fixed total score (e.g. 10) and the user needs to assign these 10 points among the 7 items. Each item can have a different score, but the sum of the scores of all items must equal 10.
3. Adjust Score: The user adjusts the score for each item by using the slider wheel or the plus and minus buttons until the score assignment meets the total score requirement.
4. Submit Results: After score assignment is complete, the user submits the score results.
5. Data Storage: The system records the scores assigned by the user for each item and stores them in a database or Excel sheet.
6. Data Export: Administrators export data for analysis to understand how each user assigned their total score.

* Business Process

1. Fixed Total Score Limit: Users are assigned scores within a fixed total score, prompting users to prioritize and trade-off during the assignment process.
2. User preference analysis: By analyzing how users allocate a limited number of total scores, users' priorities and relative preferences for different items can be derived.
3. Decision support: The data collected can help decision makers understand users' propensity to choose given limited resources (scores), thus better supporting the decision-making process and understanding which items are prioritized higher in users' minds.