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Final Project Report

System Requirement #1: Achieved 100%

Web-based GUI using Python Flask and HTML, personalized behavior/features are shown depending on the user type (admin, customer, employee), each has unique access to web pages, layouts, and features. Texts, images, and graphics were handled and displayed.

System Requirement #2: Achieved 100%

The employee is able to set up as many builds (with compatibility check) as wished for store display, including different types (like desktop, laptop, edge computing). The customers can customize each component with compatibility checks.

System Requirement #3: Achieved 100%

Visitor can freely browse items without logging in, and can comment for each item as wished. Visitor can register to become a customer. Employee can process application, approve or reject, where a memo is sent to the admin when rejecting an application.

System Requirement #4: Achieved 100%

All customers are able to deposit money with their credit/debit card info into their accounts. Exceeding balance in a purchase is denied and punished by issuing one warning to the customer.

System Requirement #5: Achieved 100%

Customer is able to choose “Build Your Own Desktop” option to build their desired desktop from scratch. The system will do hardware compatibility check when the customer is building the desktop. After finishing building and purchasing the desktop, customer is given a survey to confirm if he/she wants to approve store display for this desktop configuration.

System Requirement #6: Achieved 100%

After checkout, the customer is given the opportunity to rate the configuration (from 1-5), the creator of the configuration receiving the best rating (> 3.5 stars and no worst ones) will be rewarded with one compliment, whereas the worst rating will receive one warning. The customer can communicate with the employee about an order (need Order ID to start a conversation), the customer or employee can complain/compliment each other by filing reports to the admin, and the admin will process the reports and issue a possible number of compliments or warnings to the employee or customer.

System Requirement #7: Achieved 100%

Customers with 3 or more warnings will be forced to log out and unable to login anymore, customer will be added to blacklist. For every 3 compliments, customer will receive a 10% off discount on the next purchase. For every 3 warnings, employee will receive a demotion, upon receiving 2 demotions, the employee will be fired and his/her account will be removed from the system. For every 3 compliments, employee will receive a promotion, each promotion will rank up his/her employee title.

#### System Requirement #8: Achieved 100%

The configuration with the worst ratings will be removed (based on system requirement #6, more than 3 worst ratings and no best one will be removed), and the creator receive one warning (as stated in system requirement #6). Similarly, the configuration is ranked according to the number of best ratings (5 stars), the configuration with the most 5-star ratings will be placed at the top page of that category (desktop, laptop, or edge computing), also the creator receives one compliment (as stated in system requirement #6).

#### System Requirement #9: Achieved 100%

All comments and communications in the system will undergo a language check. Taboo words in comments/communications will be replaced with \*. Visitor's message with one or more taboo words will not be shown. Customer or employee's message will be shown if taboo words are less than or equal to 3, but one warning is given. If more than 3 taboo words found, the message will not be shown and the customer/employee will receive 2 warnings.

#### System Requirement #10: Creative Feature Achieved 70%

Search box: Users can use the search box to search the name for their desired configuration, and the system will return the matching configurations for users to see.

Customizing Account: Users can customize their name, email, profile picture, and address.

User Blacklist: The store owner is capable to use the user blacklist to manually ban customers/employees by adding their emails.