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| --- | --- | --- |
| Test | Pass/Fail | Comment |
| Database manager can set up database of related product by importing corresponding data file. | Pass |  |
| Database manager can insert new information of reference product to the database. | Pass |  |
| Database manager can modify (update/delete) information of existing reference product in the database. | Pass |  |
| User can click “Back” button to go back to previous page of interface. | Pass |  |
| Users are forced to select at least one item on each page. Otherwise, an error message will be reported and users need to go back to select again. | Pass |  |
| User can input an upper limit of the cosine similarity value. | Pass |  |
| User can input a lower limit of the cosine similarity value. | Pass |  |
| User can select a reference product from a given dropdown list. | Pass |  |
| The chosen background image with water mark is correctly displayed on the interface. | Pass |  |
| The first-level related products that displayed on the interface for selection corresponds to the first level content of database correctly. | Pass |  |
| The second-level related products that displayed on the interface for selection corresponds to the second level content of database correctly. | Pass |  |
| The third-level related products that displayed by the interface for selection corresponds to the third level content of database correctly. | Pass |  |
| The forth-level related products that displayed by the interface for selection corresponds to the forth level content of database correctly. | Pass |  |
| The models of products that displayed by the interface corresponds to the content of the database correctly. | Pass |  |
| The child products (e.g second level products are the child products of first level products) that displayed by the interface based on the previous selection of parent products are the correct ones. | Pass |  |
| The cosine similarity value between two products is correctly computed. | Pass |  |
| For the algorithm part, the features of two different products that are very similar but not exactly same are identified as common features correctly. | Pass |  |
| Novel features are correctly classified and displayed as a feature list. | Pass |  |
| Features in the feature list are correctly divided into evolution list, revolution\_1 feature list, revolution\_2 feature list. | Pass |  |
| Only the features of the product whose cosine similarity values are within the threshold will be classified accordingly. | Pass |  |
| User can set username via login system | Pass |  |
| User can set password via login system | Pass |  |
| User can register email address via login system | Pass |  |
| User must login before use the interface | Pass |  |
| The user account details can be correctly verified | Pass |  |
| The interface is always available online | Pass |  |
| After user set up username and password and click “verify” button, the system will send random verification code via registered email address  | Pass |  |
| The user creates account successfully only after the verification code is verified  | Pass |  |