Non-functional Requirement

1. Operational requirement

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| **Requirement #: NFR1.1** | **Requirement Type:** Operational Requirement |
| **Description:** The system should provide the portal for users to upload their sample pictures | |
| **Rationale:** The requirements of the designers. | |
| **Sources:** Code of conduct, Admin | |
| **Fit Criterion:** None | |
| **Dependencies:** None | |
| **Rank of importance:** Essential | |
| **Supporting Materials:** Requirement Overview Document Provided. | |
| **History:** Created by Rui Zhang on 4th May 2017 | |

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| **Requirement #: NFR1.2** | **Requirement Type:** Operational Requirement |
| **Description:** The system should provide the different portal for users to choose which sever they need. | |
| **Rationale:** The requirements of the designers. | |
| **Sources:** Code of conduct, Admin | |
| **Fit Criterion:** None | |
| **Dependencies:** None | |
| **Rank of importance:** Essential | |
| **Supporting Materials:** Requirement Overview Document Provided. | |
| **History:** Created by Zhuo Wang on 4th May 2017 | |

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| **Requirement #: NFR1.3** | **Requirement Type:** Operational Requirement |
| **Description:** The system should provide the portal for users to save the final picture. | |
| **Rationale:** The requirements of the designers. | |
| **Sources:** Code of conduct, Admin | |
| **Fit Criterion:** None | |
| **Dependencies:** None | |
| **Rank of importance:** Essential | |
| **Supporting Materials:** Requirement Overview Document Provided. | |
| **History:** Created by Zhuo Wang on 4th May 2017 | |

1. Environment requirement

The system is based on the browser-server. So users should have a stable network connection. By using the browser, users can easily access the system. There is no limitation on the browser(Firefox, chrome, safari, etc.) or the system(Mac OS, Linux, Windows).

1. Compliance requirement

The contexts of the report format should follow the IEEE Template of the requirements Documents.

The function and data name should be easily understood for the developers so that they can maintain and update conveniently.

If a change in demand occurs. Developers need to make adjustments in time to accommodate changes in demand.

Developers should trace the feedbacks of users in order to promote the system.

The tester finds that the bug needs to be fed back to the developer in time and gives the appropriate changes.

The Website must ensure the safety of user’s data, and grantee the security of the upload communication.

1. Legal requirement

Any part of the system that reuses code from an external source must cite that source, and only be used if permission is granted from that source.

All parts of the Australian Computer Society’s ‘Code of Professional Conduct’ should be followed by the developers.

1. Design Constraints

The application is constrained by the algorithm structure and the complexity of the picture’s elements. Since the system needs to analyze numerous styles, the running time of analysis may difference. That is, in some cases, it can generate suitable outputs in moments, but not always like this. Due to current limitation of the algorithm, there is no solution of this constraints.

The internet connection is also a constraint for the application. Since the interface is designed as a website, it is crucial that the internet connection is available for the users to upload the sample picture.

Because if the user chooses the picture to change the style. The program takes a long time to analyze the reference picture. This time may exceed the user's acceptable range. So the program is designed if there is no special requirement. Only the images that have been parsed are provided as reference pictures.