# Non Functional Requirements

## Security

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| ID | Description |
| SEC1 | The system shall authenticate all users using an ID and password. |
| SEC2 | The system shall require a valid class password upon user account creation. |
| SEC3 | Password shall never be viewable upon sign-in. |
| SEC4 | Students shall not be allowed administrative access of the website. |

## Availability

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| ID | Description |
| AVA1 | The website shall be available for use 24 hours and 7 days a week so that students can access their microscope activity off campus during active school semester session. |
| AVA2 | Unless the system is non-operational, the website shall notify administrative informing them that the system is unavailable and as well as provide a warning message to the user upon sign in attempt. |

## Interoperability

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| ID | Description |
| INT1 | The system shall be able to interface with any HTML browser. |
| INT2 | Every microscope is connected to one raspberry pi system which is then all collectively viewed on one website space location. |
| INT3 | The system shall be able to support multiple live streaming microscope sessions throughout any given semester. |

## Usability

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| ID | Description |
| USA1 | There will be fully documented and detailed user guide for the administrative team to utilize. |
| USA2 | The system shall be usable by any user who have access to internet connection and as well as login credentials. |

## Maintainability

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| ID | Description |
| MAI1 | Administrative team will have direct communication access to any developers on the team in case there is a problem with the service. Issues reported as “urgent” shall be repaired as soon as possible during active semester session. |

## Scalability

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| ID | Description |
| SCA1 | The system shall be able to support multiple live streams. |
| SCA1 | The system shall be able to support multiple user sessions on a live stream. |