# Non Functional Requirements

## Security

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| ID | Description |
| SEC1 | The system must authenticate all users using a login ID and password. See Login use case for details. |
| SEC2 | The system must not grant authorized access to unauthorized users. If a user fails 3 consecutive attempts at accessing the system, the user will be locked out for 10 minutes. |

## Privacy

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| ID | Description |
| PRI1 | The system must protect users personal information. User’s personal data must not be stored in plain text. |

## Scalability

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| ID | Description |
| SCA1 | The system must handle up to 1000 users at one time. |

## Availability

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| ID | Description |
| AVA1 | The system must be available 24 hours a day and 7 days a week. |

## Reliability

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| ID | Description |
| REL1 | The system must be able to recover from unexpected downtime. |
| REL2 | The system must backup user data to be accessible after recovery. |

## Efficiency

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| ID | Description |
| EFF1 | The system must respond with a set of exercises in less than 1 second. |

## Correctness

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| ID | Description |
| COR1 | The system must respond with a set of exercises that match the user's criteria (age, weight, goal). |

## Interoperability

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| ID | Description |
| INT1 | The system must be able to function on varying web browsers. |

## Flexibility

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| ID | Description |
| FLX1 | The system must be able to adapt to various platforms. |

## Usability

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| ID | Description |
| USB1 | Each exercise must include a written description and visual aid. |