Group: C2SE.32

DESCRIPTION OF PRODUCT REQUIREMENTS

Project: THE COMMUNITY START-UP WEBSITE

Date: 21/02/2023

1. **Short description of product ideas (less than 7 statements)**

Gyms are now growing strongly, demonstrating people's increasing concern for health. This increase means the gym industry is becoming an important part of everyday life. However, gym managers face many challenges when it comes to tracking members, managing equipment, and optimizing the user experience. The gym management project is designed to solve these challenges, providing a comprehensive information system to improve service quality and increase customer satisfaction. At the same time, it also aims to provide the best user experience and facilitate people to maintain a healthy lifestyle.

1. **Requirements**

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| High-level Functional Requirements | 1. Manage staff information. |
| 2. Manage customer information. |
| 3. Manage class information. |
| 4. Receive feedback on results from the system. |
| 5. Login for the admin.. |

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| Quality Attributes Requirements (example related to issues: Ease  Use, Easy to Like, Easy to Learn, Easy to Understand, Easy to Buy / Yes, ...) | 1. The function of searching and processing information is fast and can process many pieces of information at the same time. |
| 2. Accounts can be protected by authentication and encryption with high security. |
| 3. Users can use the application easily without spending much time. |
| 4. Easily change the interface and language according to user preferences. |
| 5. The system is easy to maintain, debug, or make changes to the software. |

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| Operation Requirements  (related to issues: Speed, Accuracy, Performance, Stability, Load Resistance, Scalability, Safety, ...) | 1. Process quick tasks for no more than 5 seconds per task. |
| 2. Ensure against information loss with high security. |
| 3. A full web page should load in no more than 10 seconds. |

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| Environment & Operation Requirements (related to issues: physical impacts on the environment, interact with relevant or existing systems, conditions for product commercialization, ...) | 1. Web browsers: Google Chrome, CocCoc lastest version. |
| 2. Operating systems: Microsoft Windows 10&11, SSD 120GB, RAM 2G, minimum 50Mbps |
| 3. |
| 4. |
| 5. |

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| Requirements for Maintenance & Support | 1. Collect user feedback and maintain the system monthly. |
| 2. Quick support |
| 3. Information safety and confidentiality |
| 4. Periodically check and correct errors when detected. |
| 5. Consult with support via phone number or email. |

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| Security/ Safety Requirements  (related to issues: conditions of use / access to products, personal freedom, inspection, ...) | 1. Clearly assign permissions for each type of user and restrict functionality to some roles. |
| 2. The correct role must be logged in to be able to use the functionality of the selected role. |

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|  | 3. Agree to the terms of registration. |
| 4. Can edit the information and get the password when losing the password. |
| 5. 3-layer password encryption |

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| Culture Requirements | 1. Vietnamese and English language support |
| 2. Culture according to international standards |
| 3. Does not contain harmful content, content level, toxic cultural content is specified in the law of Vietnam and international. |
| 4. |
| 5. |

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| Evaluate the complexity of engineering problems | 1. Addressing problems not encompassed by current standards and codes |
| 2. Involving diverse groups of stakeholders |
| 3. Including many component parts or sub-problems |
| 4. Involving multiple disciplines |
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| Standard requirements | 1. Code standard. (GNU, Oracle standard for Java, ..,) |
| 2. Design standard. (design patterns, object-oriented analysis and design,…). |
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