<Project Name>

Software Requirements Specification

For <무산소>

Version <1.0>

운동기록 어플리케이션은 사용자에게 맞춤형 운동관리 스케줄링을 추천, 제공하는 어플리케이션입니다. 간단하고 편리한 유저환경을 제공하여 사용자에게 효율적인 운동관리를 넘어 건강관리를 할 수 있도록 돕는 것이 목표입니다.

2023.04.02

팀장 : 박정헌

팀원 : 김상훈

노윤성

신동화

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목차

1. 소개

1.1 개발목적 3

1.2 사용범위 3

1.3 참조 3

2. 상세 설명 3

3. 요구사항 3

3.1 기능부분 3

3.2 유용성 3

3.3 신뢰성 3

3.4 성능 3

3.5 지원가능성 3

3.6 설계 제약조건 3

3.7 사용자 설명서 및 도움말 시스템 요구사항 3

3.9 인터페이스 3

3.9.1 유저 인터페이스 3

3.9.2 하드웨어 인터페이스 3

3.9.3 소프트웨어 인터페이스 3

3.10 라이선스 요구사항 3

3.11 법률, 저작권 관련 요구사항 3

3.12 적용가능 기준 3

4. 참조 문헌 3

# 소개

코로나19 이후 공용시설 이용에 제한이 생기면서 홈 트레이닝에 대한 관심이 높아지고 있습니다.

이에 따라 다양한 운동 종류, 자세 등의 정보를 얻고 운동 내용을 기록하고 목표 달성에 도움을 주는 운동 어플리케이션은 매우 인기 있는 어플리케이션 중 하나입니다.

이 앱은 초보자가 운동을 시작할 때 여러 운동 정보와 운동 자세에 대한 정보를 얻을 수 있습니다.

운동을 즐기는 사람들도 여러 종류의 운동 자세를 추천 받을 수 있습니다.

또한, 사용자가 운동할 때마다 운동 종류, 시간, 거리, 무게 등의 정보를 기록하고, 보다 건강한 생활습관을 들이는 것과 동기부여에 도움을 줄 수 있습니다.

## 개발목적

문화체육관광부의 자료 (규칙적 체육활동 참여 여부 및 빈도 연도별 비교, 2019~2021년)에 따르면 2020년도부터 규칙적 체육활동의 참여여부와 빈도가 늘어나는 추세입니다.

체육활동이 늘어나는 사회적 관심증가에 따라 사용자들의 편의성과 운동 목표 달성을 위해

이 앱을 개발하게 되었습니다. 기존의 a.apk의 내용과 차별성을 언급해주시면 좋습니다.

## 사용범위

아래 사항은 같이 회의가 필요한 것 같습니다.

## 참고사항

[This subsection should provide a complete list of all documents referenced elsewhere in the **SRS**. Each document should be identified by title, report number (if applicable), date, and publishing organization. Specify the sources from which the references can be obtained. This information may be provided by reference to an appendix or to another document.]

# 상세설명

[This section of the **SRS** should describe the general factors that affect the product and its requirements. This section does not state specific requirements. Instead, it provides a background for those requirements, which are defined in detail in Section 3, and makes them easier to understand. Include such items as:

• product perspective

• product functions

• user characteristics

• constraints

• assumptions and dependencies

• requirements subsets]

# 요구사항

[This section of the **SRS** should contain all the software requirements to a level of detail sufficient to enable designers to design a system to satisfy those requirements, and testers to test that the system satisfies those requirements. When using use-case modeling, these requirements are captured in the Use-Cases and the applicable supplementary specifications. If use-case modeling is not used, the outline for supplementary specifications may be inserted directly into this section, as shown below.]

## 기능성

[This section describes the functional requirements of the system for those requirements which are expressed in the natural language style. For many applications, this may constitute the bulk of the **SRS** Package and thought should be given to the organization of this section. This section is typically organized by feature, but alternative organization methods may also be appropriate, for example, organization by user or organization by subsystem. Functional requirements may include feature sets, capabilities, and security.

Where application development tools, such as requirements tools, modeling tools, etc., are employed to capture the functionality, this section document will refer to the availability of that data, indicating the location and name of the tool that is used to capture the data.]

## 유용성

[This section should include all of those requirements that affect usability. For example,

• specify the required training time for a normal users and a power user to become productive at particular operations

• specify measurable task times for typical tasks or base the new system’s usability requirements on other systems that the users know and like

• specify requirement to conform to common usability standards, such as IBM’s CUA standards Microsoft’s GUI standards]

## 신뢰성

[Requirements for reliability of the system should be specified here. Some suggestions follow:

• Availability—specify the percentage of time available ( xx.xx%), hours of use, maintenance access, degraded mode operations, etc.

• Mean Time Between Failures (MTBF) — this is usually specified in hours, but it could also be specified in terms of days, months or years.

• Mean Time To Repair (MTTR)—how long is the system allowed to be out of operation after it has failed?

• Accuracy—specify precision (resolution) and accuracy (by some known standard) that is required in the system’s output.

• Maximum Bugs or Defect Rate—usually expressed in terms of bugs per thousand of lines of code (bugs/KLOC) or bugs per function-point( bugs/function-point).

• Bugs or Defect Rate—categorized in terms of minor, significant, and critical bugs: the requirement(s) must define what is meant by a “critical” bug; for example, complete loss of data or a complete inability to use certain parts of the system’s functionality.]

## 성능

[The system’s performance characteristics should be outlined in this section. Include specific response times. Where applicable, reference related Use Cases by name.

• response time for a transaction (average, maximum)

• throughput, for example, transactions per second

• capacity, for example, the number of customers or transactions the system can accommodate

• degradation modes (what is the acceptable mode of operation when the system has been degraded in some manner)

• resource utilization, such as memory, disk, communications, etc.

## 지원가능성

[This section indicates any requirements that will enhance the supportability or maintainability of the system being built, including coding standards, naming conventions, class libraries, maintenance access, maintenance utilities.]

## 디자인 설계 제약조건

[This section should indicate any design constraints on the system being built. Design constraints represent design decisions that have been mandated and must be adhered to. Examples include software languages, software process requirements, prescribed use of developmental tools, architectural and design constraints, purchased components, class libraries, etc.]

## 사용자 설명서 및 도움말 시스템 요구사항

[Describes the requirements, if any, for on-line user documentation, help systems, help about notices, etc.]

## 인터페이스

[This section defines the interfaces that must be supported by the application. It should contain adequate specificity, protocols, ports and logical addresses, etc. so that the software can be developed and verified against the interface requirements.]

### 유저 인터페이스

[Describe the user interfaces that are to be implemented by the software.]

### 하드웨어 인터페이스

[This section defines any hardware interfaces that are to be supported by the software, including logical structure, physical addresses, expected behavior, etc. ]

### 소프트웨어 인터페이스

[This section describes software interfaces to other components of the software system. These may be purchased components, components reused from another application or components being developed for subsystems outside of the scope of this **SRS** but with which this software application must interact.]

## 라이선스 요구사항

[Defines any licensing enforcement requirements or other usage restriction requirements that are to be exhibited by the software.]

## 법률, 저작권 관련 요구사항

[This section describes any necessary legal disclaimers, warranties, copyright notices, patent notice, wordmark, trademark, or logo compliance issues for the software.]

## 적용가능 기준

[This section describes by reference any applicable standard and the specific sections of any such standards which apply to the system being described. For example, this could include legal, quality and regulatory standards, industry standards for usability, interoperability, internationalization, operating system compliance, etc.]

# 참조정보

Page4 개발목적

출처 문화체육관광부,「국민생활체육조사」, 2021, 2023.03.31, 규칙적 체육활동 참여 여부 및 빈도 연도별 비교

URL https://kosis.kr/statHtml/statHtml.do?orgId=113&tblId=DT\_113\_STBL\_1027808&conn\_path=I2