**□ 서식4\_한이음 ICT멘토링 프로젝트 결과보고서**

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| **2020년 한이음 ICT멘토링**  **프로젝트** 결과보고서 |
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| **프로젝트명** | IOT기술을 활용한 반려묘 스마트 화장실 |

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| **요 약 본** |

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| **프로젝트 정보** | | | | | |
| **주제영역** | ■ 생활 □ 업무 □ 공공/교통 □ 금융/핀테크 □ 의료 □ 교육  □ 유통/쇼핑 □ 엔터테인먼트 | | | | |
| **기술분야** | ■ IoT  □ 가상현실 | □모바일  □ 빅데이터 | □ 데스크톱 SW  ■ 자동제어기술 | □인공지능  □ 블록체인 | □ 보안  □ 영상처리 |
| **달성성과** | ■ 논문게재 및 포스터발표 □ 앱등록 □ 프로그램등록 □ 특허 □ 기술이전  ■ 실용화 □공모전(*공모전명* ) □ 기타( ) | | | | |
| **프로젝트명** | IOT기술을 활용한 반려묘 스마트 화장실 | | | | |
| **프로젝트**  **소개** | 바쁜 현대의 반려인들에게 자동화장실은 필수라 해도 과언이 아니나 복잡한 구조와 여러 가지 부가기능으로 인해 그 가격이 매우 비싸 보급률이 낮다. 우리는 이 프로젝트를 통해 핵심기능만을 지닌, 기존 제품 대비 상대적으로 보급에 유리한 반려묘 자동화장실을 소개해보고자 한다. | | | | |
| **개발배경 및 필요성** | 1인 가구의 증대로 반려동물에 대한 수요는 점차 증가하고 있으며 그중 실내에서 키우기 적합한 고양이에 포커스를 두고 애묘인들이 가장 힘들어하는 것이 화장실 관리라는 것을 보고 해당 제품을 기획하게 되었다. | | | | |
| **프로젝트**  **주요기능** | ▶ 배변 처리 : 제품의 주요 기능으로, 모래 속에 있는 배변을 자동으로 걸러서 하부 배변 봉투로 분리해주는 기능이다.  ▶ 모래 평탄화 : 배변 처리 이후 배변용 모래를 평탄화 한다.  ▶ 고양이 무게 확인 : 반려묘와 변의 무게를 확인한다.  ▶ IOT : 제품의 원격제어가 가능하다.  ▶ 라돈 측정 : 배변용 모래의 라돈 수치를 확인한다.  ▶ 탈취 : 반려묘의 변 냄새가 외부로 새어 나가는 것을 방지한다. | | | | |
| **작품의 기대효과 및 활용분야** | 자동제어와 원격제어를 통해 외출 등의 이유로 보호자가 직접 제품을 관리할 수 없을 때 화장실 관리를 가능하게 한다. 핵심기능만을 적용하여 원가 절감이 가능해 자동화장실의 보급화에 유리하다. | | | | |

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| **(본문) 프로젝트 결과보고서** |

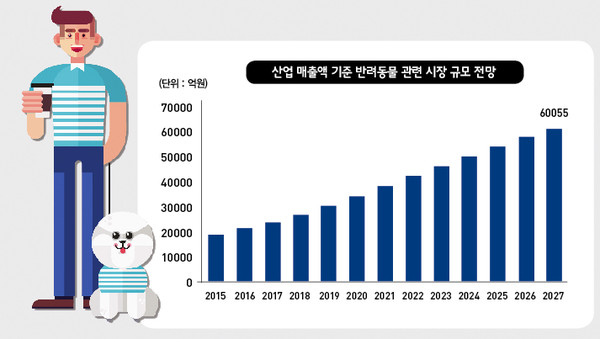
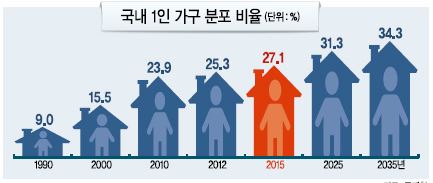
**Ⅰ.** 프로젝트 개요

가. 프로젝트 소개

1) 반려동물 시장의 성장

-1인 가구의 증가, 소득수준 향상, 저출산, 고령화 등 다양한 사회, 환경적 요인에 의한 현상

- 국내 반려동물 시장의 경우 매해 전년 대비 15%씩 상승



<표 1> 1인가구 증가비율(통계청) <표 2> 반려동물 시장규모 전망(농수축산신문 안희경, 송형근 기자)

2) 고양이 시장의 급성장

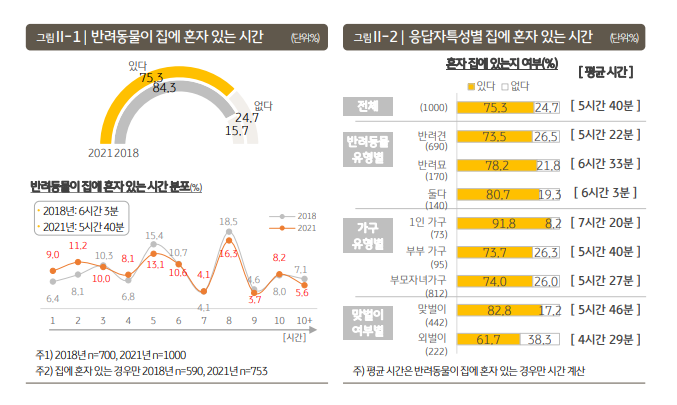
- 현대인의 바쁜 일상과 고양이의 적은 채취와 소음, 독립적 성향에 기인함

![테이블이(가) 표시된 사진

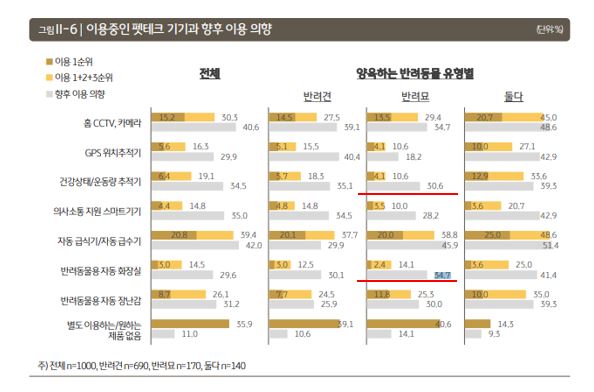
자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDQRXhpZgAATU0AKgAAAAgABAE7AAIAAAADSFAAAIdpAAQAAAABAAAISpydAAEAAAAGAAAQwuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFkAMAAgAAABQAABCYkAQAAgAAABQAABCskpEAAgAAAAM4MgAAkpIAAgAAAAM4MgAA6hwABwAACAwAAAiMAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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1V9w5yzg0YNVv8AhHNO/uXH/gXL/wDFUf8ACOad/cuP/AuX/wCKo+qvuHOQyg/8JJaf9ek//ocVX8Gqh8MaWZRIYpt6gqG+1S5AOMjO72H5Cnf8I5p39y4/8C5f/iqPqr7hzlnBowarf8I5p39y4/8AAuX/AOKo/wCEc07+5cf+Bcv/AMVR9VfcOcs4NGDVb/hHNO/uXH/gXL/8VR/wjmnf3Lj/AMC5f/iqPqr7hzlnafT9Krf2dZjUjqAsrf7aY/LNz5S+YU/u7uuPaj/hHNO/uXH/AIFy/wDxVH/COad/cuP/AALl/wDiqf1aXcOcq3vhnQtSumudS0PTrudgA0txaRyMQOgyRnsKfYeH9H0mZ5tK0ixsZXXaz21skbMM5wSoGRkCp/8AhHNO/uXH/gXL/wDFUf8ACOad/cuP/AuX/wCKo+ry7hzIJdOs5r+G+msoJLy3BENw8SmSMHqFY8jPtUWoaFpOryI+raVZXzxjCNc2ySFR7FgcVL/wjmnf3Lj/AMC5f/iqP+Ec07+5cf8AgXL/APFUfVpdw5kVLTwvoOn3SXWn6FptrcR52TQWcaOuRg4IGRxxUGp+CvDOs6h9u1bw9p15dDGZprVWY46ZJHP41p/8I5p39y4/8C5f/iqT/hHNO/uXH/gXL/8AFU/q8u4cyJ0jWONY40VEQBVVRgKB0AHanYNV/wDhHNO/uXH/AIFy/wDxVJ/wjmnf3Lj/AMC5f/iqX1aXcOcs4NGDVb/hHNO/uXH/AIFy/wDxVH/COad/cuP/AALl/wDiqX1V9w5yzg0YNVv+Ec07+5cf+Bcv/wAVR/wjmnf3Lj/wLl/+Ko+qvuHOQOD/AMJRD/14yf8AoxK0AD6VU/4RfSzMJfKm8wLtD/apcgZzjO7pwKd/wjmnf3Lj/wAC5f8A4qm8M2tw5yzg0YNVv+Ec07+5cf8AgXL/APFUf8I5p39y4/8AAuX/AOKpfVX3DnLODRg1W/4RzTv7lx/4Fy//ABVH/COad/cuP/AuX/4qj6q+4c5ZwarLp1kmovqCWcC3siCN7kRKJGUdFLdSOBx7Uf8ACOad/cuP/AuX/wCKo/4RvTv7lx/4Fy//ABVP6tLuHOVtY8N6N4hhSLXdJtNQSM7kFzAr7D7Z5FWbDTrTSbJLTS7OGyto+I4YIwiL+Ao/4RzTv7lx/wCBcv8A8VR/wjmnf3Lj/wAC5f8A4qj6vLa4cyM2LwX4ah1g6rD4e01L9m3m5W0Xfu67s46+/WrmoaBpGrzLNq2k2N/Kg2rJc2ySso64BYHH0qb/AIRvTv7lx/4Fy/8AxVH/AAjmnf3Lj/wLl/8AiqPq8u4cyKtl4Z0LTbpbnTtD060uFBCywWkaOMjBwQM8irUem2UWpSahHY26XsqhJLlYVEjqOgLdSOBxR/wjmnf3Lj/wLl/+Ko/4RzTv7lx/4Fy//FUfV5dw5kWQuOg/SjBqt/wjmnf3Lj/wLl/+Ko/4RzTv7lx/4Fy//FUvqr7hzlnBowarf8I5p39y4/8AAuX/AOKo/wCEc07+5cf+Bcv/AMVR9VfcOcs4NGD6fpVb/hHNO/uXH/gXL/8AFUf8I5p39y4/8C5f/iqPqr7hzktp/wAha4/694v/AEKStCqllpltp7O1qrguAGLys54zj7xPqat12U48sbEPVn//2Q==)

<표 3> 국내 반려동물 사료 시장 규모(유로모니터)

나. 개발배경 및 필요성



<표 5, 6> 반려동물이 혼자 있는 시간(KB금융그룹 2021 한국 반려동물보고서’)

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<표 4> 펫테크 기기와 이용 의향(KB금융그룹 2021 한국 반려동물 보고서’)

1) 장시간 혼자 있는 반려동물 때문에 다수의 반려인들이 자동화장실 사용을 희망함.

**![테이블이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDQRXhpZgAATU0AKgAAAAgABAE7AAIAAAADSFAAAIdpAAQAAAABAAAISpydAAEAAAAGAAAQwuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFkAMAAgAAABQAABCYkAQAAgAAABQAABCskpEAAgAAAAM4MAAAkpIAAgAAAAM4MAAA6hwABwAACAwAAAiMAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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<표 7> 반려동물 양육 시의 애로사항(KB금융그룹 2021 한국 반려동물 보고서’)

2) 반려동물 양육 시 발생하는 문제점 1순위는 위생적, 비용적 문제

자동화장실의 필요성 부각

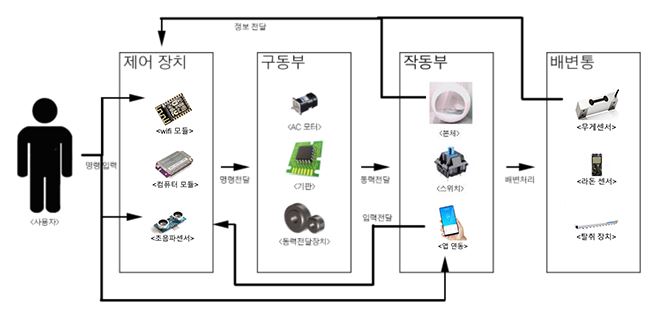
![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDQRXhpZgAATU0AKgAAAAgABAE7AAIAAAADSFAAAIdpAAQAAAABAAAISpydAAEAAAAGAAAQwuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFkAMAAgAAABQAABCYkAQAAgAAABQAABCskpEAAgAAAAM0NQAAkpIAAgAAAAM0NQAA6hwABwAACAwAAAiMAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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h/kHNW7R+5/5nI/8J7B/wA8f1P+FH/Ce2//ADx/U/4V139g6R/0CrH/AMBk/wAKP7B0f/oFWP8A4DJ/hRyR7v8AD/IOat2j9z/zOR/4T23/AOeP6n/Cj/hPbf8A54j8z/hXXf2FpH/QKsv/AAHT/Cj+wdI/6BVl/wCA6f4Ucke7/D/IOat2j9z/AMzkf+E9t/8Anj+p/wAKB49t/wDnj+p/wrrv7B0j/oFWX/gMn+FH9g6R/wBAqy/8Bk/wo5I93+H+Qc1btH7n/mcl/wAJ7b/88f1P+FH/AAnlv/zxH5n/AArrf7B0j/oFWX/gOn+FH9g6R/0CrH/wGT/Cjkj3f4f5BzVu0fuf+ZyP/Ce2/wDzx/U/4Uf8J7b/APPH9T/hXXf2DpH/AECrL/wHT/Cj+wdI/wCgVZf+A6f4Ucke7/D/ACDmrdo/c/8AM5H/AIT23/54/qf8KP8AhPbf/nj+p/wrrv7B0j/oFWX/AIDp/hR/YOkf9Aqx/wDAZP8ACjkj3f4f5BzVu0fuf+ZyP/Ce2/8Azx/U/wCFYOv61BqwZ4/lckfLjjivTP7C0j/oFWX/AIDp/hR/YOkf9Aqx/wDAZP8AChQhdNt6en+RMnXlBw91XVtn/meS3pC2ekE9BbE/+R5a6Ow8X21jb+SqbxnOTkV3LaLpbqivptmwQbVBgU7RknA445JP403+wtI/6BVl/wCA6f4VVRRqNSd00Z0KdagnGLTTtvfocj/wnlv/AM8f1P8AhUN14x0+9t2gvLKOeJxhklXcD+YrtP7B0j/oFWX/AIDp/hR/YWkf9Aqy/wDAdP8ACo9nF9X+H+Rup11so/j/AJnj95pvhyd2ewW50927Qykrn/dYH+YrMfRYjnbq7HgA7rbrjpnBr3P+wdI/6BVl/wCA6f4Uf2DpH/QKsv8AwHT/AArB4Og9Xf8AD/I6Y43GxWjj9z/zPEodKtF2ma/ZWz8zwRFWI7gEk4yPaux0nxJpWh2K2mnWYiiHJOSWY+pOOTXef2DpH/QKsv8AwGT/AAo/sHSP+gVZf+A6f4VUMNSpu8b/AIf5GdTE4uorS5fuf+ZyP/CeW/8Azx/U/wCFH/CeW/8Azx/U/wCFdd/YOkf9Aqy/8B0/wo/sHSP+gVY/+Ayf4VtyR7v8P8jHmrdo/c/8zkf+E8t/+eP6n/Cj/hPLf/nj+p/wrrv7B0j/AKBVl/4DJ/hR/YOkf9Aqy/8AAZP8KOSPd/h/kHNW7R+5/wCZyH/CeQf88f1P+FH/AAnlv/zx/U/4V1/9g6R/0CrH/wABk/wo/sHR/wDoFWP/AIDJ/hRyR7v8P8g5q3aP3P8AzOR/4Ty3/wCeP6n/AApP+E8t/wDnj+p/wrr/AOwdI/6BVl/4Dp/hR/YOkf8AQKsv/AdP8KOSPd/h/kHNW7R+5/5nI/8ACeW//PH9T/hSf8J3bHrAP1/wrr/7B0j/AKBVl/4Dp/hR/YOkf9Aqx/8AAZP8KOSPd/h/kHNW7R+5/wCZyP8Awnlv/wA8f1P+FH/Cd2//ADx/U/4V139g6R/0CrL/AMB0/wAKP7B0j/oFWX/gOn+FHJHu/wAP8g5q3aP4/wCZyP8Awnlv/wA8f1P+FH/CeW//ADx/U/4V139g6R/0CrL/AMB0/wAKP7B0j/oFWX/gMn+FHJHu/wAP8g5q3aP3P/M5H/hPLf8A54/qf8KT/hPbf/nj+p/wrr/7B0j/AKBVl/4Dp/hR/YOj/wDQKsf/AAGT/Cjkj3f4f5BzVu0fx/zOR/4Ty3/54/qf8Koar4pttTtwhXYVBxjJzmu9/sLSP+gVZf8AgOn+FH9g6R/0CrH/AMBk/wAKTpwas2/w/wAhqddbcv3P/M8WjIV1J7EE12Nj4utrG38pULjOckEV3H9g6R/0CrL/AMB0/wAKP7C0j/oFWX/gOn+FaVOWpJS1TRy0KNWhFxTTT73OQ/4Tq3/54/zo/wCE6t/+eX8/8K6/+wdI/wCgVZf+A6f4Uf2FpH/QKsv/AAHT/Cp5V/M/w/yNv3vaP4/5nH/8J3b5/wBV/Oj/AITu3/55D9a7D+wdI/6BVl/4Dp/hR/YOkf8AQKsv/AdP8KOVfzP8P8gtV7R/H/M4/wD4Tu3H/LH+dH/Cd2//ADy/nXYf2DpH/QKsv/AZP8KP7B0j/oFWX/gOn+FHKv5n+H+Q/wB72j+P+Zx//Cd2/wDzx/nR/wAJ3b/88v512H9g6R/0CrL/AMB0/wAKP7B0j/oFWX/gMn+FLlX8z/D/ACF+97R/H/M4/wD4Tq3/AOeX86P+E7t/+eP867D+wdI/6BVj/wCAyf4Uf2DpH/QKsv8AwHT/AAo5V/M/w/yH+97R/H/M4/8A4TuD/nl/Oj/hO7f/AJ4/zrsP7B0j/oFWP/gMn+FH9g6R/wBAqx/8Bk/wp8q/mf4f5CtV7R/H/M4//hO7f/nl/Oj/AITu3/55fzrsP7B0j/oFWX/gOn+FH9g6R/0CrL/wHT/CjlX8z/D/ACHar2j+P+Zx/wDwndv/AM8v50f8J3b/APPH+f8AhXYf2DpH/QKsv/AdP8KP7B0j/oFWX/gMn+FHKv5n+H+QWq9o/j/mcf8A8J3B/wA8f50v/CdW/wDzy/nXX/2DpH/QKsv/AAHT/Cj+wdI/6BVl/wCAyf4UuVfzP8P8hfve0fx/zOP/AOE7t/8Anl/Oj/hO7f8A54/zrsP7B0j/AKBVl/4Dp/hR/YOkf9Aqy/8AAdP8KfKv5n+H+Q/3vaP4/wCZx/8Awndv/wA8v50f8J3b/wDPL+ddh/YOkf8AQKsv/AdP8KP7B0j/AKBVj/4DJ/hS5V/M/wAP8gtV7R/H/M4//hO7f/nl/P8Awqjqnim21K3CFdhAOMAnOa77+wtI/wCgVZf+A6f4Uf2DpH/QKsf/AAGT/Ck6cZKzb/D/ACHF1ou6Ufuf+Z4voovD43tv7LExuP7MudwhbBMfm2+cY5zu2dO26iva7fR9MtLoXNrp1pBcBGjEscCq4ViCVyBnBKqSP9kelFaSlzO4qFN0qagz/9k=)

<표 8> 고양이의 대변과 건강상태(헬스경향 김보람 기자)

다. 작품 구성도

ㅇ



- 제어장치

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| **명칭** | **기능** | **설명** |
| Wifi 모듈 | 네트워크를 통해 사용자의 입력, 출력을 담당 | 네트워크를 통해 사용자에게 입력을 받고 컴퓨터 모듈로 명령을 전달함  컴퓨터 모듈에서 받은 정보를 네트워크를 통해 다시 사용자에게 전달함 |
| 컴퓨터모듈 | 정보 취합 후 출력 | 해당 기기의 본체에 해당  모든 정보를 받고 취합하여 각 모듈로 전달  모든 명령과 정보 처리를 담당 |
| 초음파센서 | 고양이 출입을 감지 | 고양이의 출입 감지 시 제품 작동 시작 및 종료 |

- 구동부

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| **명칭** | **기능** | **설명** |
| AC 모터 | 전원을 받고 동력을 생성함 | 전기를 통해 동력을 생성하는 역할  컴퓨터 모듈에서 받은 명령을 단순수행 |
| 기판 | 제어창에서 명령을 받고 구동부를 작동시킴 | 제어장치를 포함, 명령을 전달하는 기판  모터를 돌리게 하고 동력전달장치를 가동시킴  또한 정지를 관여함 |
| 동력전달장치 | 모터에서 발생된 운동에너지를 작동부로 전달함 | 모터에서 받은 동력을 작동부로 전달시킴 |

- 작동부

|  |  |  |
| --- | --- | --- |
| **명칭** | **기능** | **설명** |
| 동작 센서 | 고양이의 동작을 감지 | 고양이의 동작을 감지해서 컴퓨터 모듈로 전달  해당 입력을 감지해 정지, 작동을 판단 |
| 본체 | 동력을 받아 회전 | 동력전달장치로부터 동력을 전달 받아  회전함으로써 내부의 배변을 걸러냄 |
| 스위치 | 사용자의 직접 입력을 받음 | 외부에 돌출된 기계식 버튼의 스위치  사용자의 입력을 직접 받아 컴퓨터 모듈로 전달 |

- 배변통

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| **명칭** | **기능** | **설명** |
| 무게센서 | 무게를 감지 | 고양이의 무게 감지 시 작동 시작 종료 |
| 탈취 장치 | 배변의 냄새 억제 | 배변의 냄새를 억제하는 필터  배변통 안쪽 장착하기 쉽게 설계 |
| 라돈 센서 | 라돈 수치측정 | 모래에서 발생하는 라돈 수치를 측정함 |

라. 작품의 특징 및 장점

ㅇ 기존 제품의 다양한 기능 중 핵심기능만을 제외하여 저렴한 가격대 형성이 가능하다.

**Ⅱ.** 프로젝트 수행결과

가. 주요기능

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| --- | --- | --- |
| **구분** | **기능** | **설명** |
| S/W | IoT | 원격으로 제품에 대한 접근, 조작을 사용자에게 제공 |
|  |  |
|  |  |
|  |  |
| H/W | 고양이 감지 | 고양이의 출입을 감지하여 제품의 작동 제어 |
| 배변처리 | 판이 회전하면서 모래 속에 있는 배변을 분리하고 배변통으로 배출함 |
| 모래 평탄화 | 판 안의 배변용 모래를 판의 회전을 통해 평탄화 |
| 센서제어 | 다수의 스위치나 센서로부터 값을 받아들여 LED나 모터와 같은 외부 전자장치들을 통제함으로써 환경과 상호작용이 가능한 물건을 만들어낼 수 있다. 임베디드 시스템 중의 하나로 쉽게 개발할 수 있는 환경을 이용하여, 장치를 제어할 수 있다. |

나. 프로젝트 개발환경

|  |  |  |  |
| --- | --- | --- | --- |
| **구분** | | **항목** | **적용내역** |
| S/W  개발환경 | OS |  |  |
| 개발환경(IDE) |  |  |
| 개발도구 |  |  |
| 개발언어 |  |  |
| H/W  구성장비 | 디바이스 |  |  |
| 센서 | 초음파센서 |  |
| 무게센서 |  |
| 라돈 센서 |  |
| 통신 |  |  |
| 개발언어 |  |  |

다. 장비(기자재/재료) 활용

|  |  |  |
| --- | --- | --- |
| **번호** | **품명** | **작품에서의 주요기능** |
| *1* | *갤럭시S5* | - |
| *2* | *라즈베리파이* | - |
| *3* |  | - |
| *4* |  | - |

라. 프로그램 작동 동영상

*#URL(유튜브에 올려서 링크 – 프로그램 작동 되는 화면을 동영상으로 작성)*

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마. 결과물 상세 이미지

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| *(이미지 첨부)* | *(이미지 첨부)* | *(이미지 첨부)* |

바. 달성성과

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **□** | **논문게재 및 포스터발표** | 게재(발표)자명 | 논문(포스터)명 | 게재(발표)처 | 게재(발표)일자 |
|  |  |  | 2020. 00. 00. |
| **□** | **앱(APP)**  **등록** | 등록자명 | 앱(APP)명 | 등록처 | 등록일자 |
|  |  |  | 2020. 00. 00. |
| **□** | **프로그램**  **등록** | 등록자명 | 프로그램명 | 등록처 | 등록일자 |
|  |  |  | 2020. 00. 00. |
| **□** | **특허/실용신안**  **출원** | 출원자명 | 특허/실용신안명 | 출원번호 | 출원일자 |
|  |  |  | 2020. 00. 00. |
| **□** | **기술이전** | 기술이전기업명 | 기술명 | 금액 | 이전일자 |
|  |  |  | 2020. 00. 00. |
| **□** | **공모전** | 구분(교내/대외) | 공모전명 | 수상여부(출품/수상) | 상격 |
|  |  |  |  |
| **□** | **실용화** | *#실용화한 내용에 대한 구체적 작품설명* | | | |
|  | | | |
| **□** | **기타** |  | | | |
|  | | | |

*#입력한 달성성과에 대한 증빙자료는 별첨*

**Ⅲ.** 프로젝트 수행방법

가. 업무분장

|  |  |  |  |
| --- | --- | --- | --- |
| **번호** | **성명** | **역할** | **담당업무** |
| 1 | 권 성만 | 멘 토 |  |
| 2 | 김 은영 | 지도교수 |  |
| 3 | 이 선관 | 팀 장 | - 제품 외형 모델링 및 팀내 업무 총괄 |
| 4 | 이 택기 | 팀 원4 | - 자료조사 및 문서화, 일정관리, 서기 |
| 5 | 이 재욱 | 팀 원5 | - 제품 내부 디자인 및 자료조사 |

나. 프로젝트 수행일정

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **구분** | **추진내용** | **수행일정** | | | | | | | | |
| **3월** | **4월** | **5월** | **6월** | **7월** | **8월** | **9월** | **10월** | **11월** |
| **계획** | 조원 구성 및 역할분담, 일정 협의 및 일정표 작성, 제품 사전조사, 제품 사전조사, 수행계획서 작성 | ㅇ | ㅇ |  |  |  |  |  |  |  |
| **분석** | 구현여부확인, 제품 필수기능 설정, 제품디자인 외형 설정, 제품의 구동방식 확인, 시제품 비교군 탐색, 수정보안점 확인 |  | ㅇ | ㅇ |  |  |  |  |  |  |
| **설계** | 3D도면 제작 및 검수 |  |  | ㅇ | ㅇ |  |  |  |  |  |
| 2D도면 제작 및 검수 |  |  | ㅇ | ㅇ |  |  |  |  |  |
| **개발** | 3D프린터를 활용한 시안 제작 |  |  |  | ㅇ | ㅇ |  |  |  |  |
| 제품 검증 및 시제품 재료 구매 |  |  |  |  | ㅇ |  |  |  |  |
| 시제품 제작 |  |  |  |  | ㅇ |  |  |  |  |
| **테스트** | 시제품 구동확인 및 오류수정 |  |  |  |  | ㅇ |  |  |  |  |
| **종료** | 프로젝트 최종보고 및 종료 |  |  |  |  | ㅇ |  |  |  |  |
| **오프라인**  **미팅** | 대면회의 및 메신저를 통한 비대면 미팅 | ㅇ | ㅇ | ㅇ | ㅇ | ㅇ |  |  |  |  |

다. 문제점 및 해결방안

ㅇ 프로젝트 관리 측면

ㅇ 작품 개발 측면

**Ⅳ.** 기대효과 및 활용분야

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**Ⅴ.** 참고자료

가. 참고 및 인용자료

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[별첨] 한이음 ICT멘토링 프로젝트 산출물

