

肉鸡产业技术体系生产监测与产品质量可追溯平台设计 Traceability Platform Design of Production Monitoring and Products Quality for Broilers Industry Technology System

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摘要: 为增强畜禽产品可追溯的公信度, 开发了涵盖肉鸡生产与屠宰加工标准体系, 兼顾企业、政府与消费者三方利益, 具有第三方认证的肉鸡产业技术体系生产监测与产品质量可追溯平台。该平台包括雏鸡生产子系统、肉鸡生产子系统、肉鸡屠宰加工子系统、肉鸡储运子系统、肉鸡销售子系统、体系管理部门子系统、检验检疫子系统和一个用于各个子系统登录、消费者查询及体系管理部门信息发布的网站系统。平台采用Java EE构架开发, 整个项目的设计都建立在SSH框架之上, 遵循MVC设计模式。采用Java和Action Script 3.0语言设计, 用Flex技术实现视频即时通信功能, 数据库采用SQL Server 2005, Web服务器为Apache Tomcat 6.0。该平台实现了肉鸡从生产、屠宰加工、冷链储运到销售所有环节信息的可追溯, 能够从操作层面保证肉鸡产品安全。 In order to enhance public trust of livestock and poultry products, traceability platform of production monitoring and products quality for broilers industry technology system was developed. It covered standard systems of broilers production, slaughter and processing, gave benefit consideration to enterprises, governments and consumers tripartite. It possessed of third-party authentication. The traceability platform included chicken production subsystem, broilers production subsystem, broilers slaughter and processing subsystems, broilers storage and transportation subsystem, broilers sales subsystem, the third-party administration subsystem and the inspection and quarantine subsystem and a site system for every subsystem login, consumer inquiries and information releasing of system administration. The design of project was built on SSH by using architecture of Java EE, and followed the MVC design pattern. Java and Action Script 3.0 language was used in design and implementation of platform, Flex technology was also adopted to implement real-time video communication. SQL Server 2005 was used as database, Apache Tomcat 6.0 was used as Web server. The platform realized the traceability of all broilers-related information, from the production, slaughter, processing, cold chain storage, and transport to sales. The traceability platform, from the operational level, ensured the safety of chicken products.

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