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## Development of Students' Results Help Desk System for First Tier Tertiary Institutions

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## Abstract

The paper attempts to develop an effective students' results help desk system for third-tier higher institutions in Nigeria (such as Colleges of Education). This system offers help desk assistance or services, that is, technical and information assistance for students through enrolling, storing, unifying, tracking, and undertaking students' results issues and challenges. These were previously handled and conducted manually using paper and pen approach. The target of this electronic-based results help system is to assist students to communicate common results computation and publication issues for effective service delivery, students' satisfaction, and enhanced the reliability of formative and summative assessments records undertaken by the students. The new system was prototyped using PHP, CSS, HTML and MySQL Server Web development platform. The outcomes show that new system enables the educational needs of students to be timely catered for in more effective ways. This system enables results corrections fraud cases due to lack of audit trail and record keeping by the institutions' staff in old system to be minimized. It encourages the use of ICT to automate and perform operations more effectively and speedily.

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#### Chapter © 2024 References

 Rusakov, D.V., Loseva, D.M.: Development of an information system for managing user requests using bitrix. In: 2021 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering (ElConRus), pp. 1055–1058. IEEE (2021)

#### **Google Scholar**

 Alboaneen, D., et al.: Smart information desk system with voice assistant for universities. Int. J. Electr. Comput. Eng. **11**(6), 5206–5215 (2021)

#### **Google Scholar**

 Nikiforov, O., Mukhametova, L.R.: Key aspects of implementing the Help Desk system in an educational institution. In: Proceedings of the III International Scientific and Practical Conference, pp. 1–3 (2020)

#### **Google Scholar**

 Chen, M.: Interaction and collaboration in international office's help desk setting. In: Sun, Y., Li, L., Cai, H. (eds.) Asian Research on English for Specific Purposes, pp. 269–283. Springer, Singapore (2020). <u>https://doi.org/10.1007/978-981-15-1037-3\_16</u>

#### Chapter Google Scholar

 Asha, V.G., Babu, K.R.M.: On-line help desk for college departmental activities. In: 2017 International Conference on Intelligent Computing and Control Systems (ICICCS), pp. 925–930. IEEE (2017)

#### **Google Scholar**

 Dibitonto, M., Leszczynska, K., Tazzi, F., Medaglia, C.M.: Chatbot in a campus environment: design of LiSA, a virtual assistant to help students in their university life. In: Kurosu, M. (ed.) HCI 2018. LNCS, vol. 10903, pp. 103–116. Springer, Cham (2018). <u>https://doi.org/10.1007/978-3-319-91250-9\_9</u>

#### Chapter Google Scholar

 Munasinghe, C.D.: Analytics-Driven Customer Complaint Management System. Master's of Information Technology Dissertation. University of Colombo, Georgia, pp. 1–51 (2019)

#### Google Scholar

8. Zaza, S., Junglas, I., Armstrong, D.J.: Who needs the help desk? Tackling one's own technological problem via self IT service. Inf. Organization **31**(3), 100367 (2021)

#### Article Google Scholar

9. Justitia, A., Zaman, B., Putra, D.K.: Evaluating the quality of a help-desk complaint management service using six-sigma and COBIT 5 framework. In: AIP Conference Proceedings, vol. 2329, no. 1, p. 050009. AIP Publishing LLC (2021)

#### **Google Scholar**

 Nwokorie, E.C.: Service recovery strategies and customer in selected hotels in Lagos State, loyalty Nigeria. Net J. Bus. Manag. 4(1), 1–8 (2016)

#### **Google Scholar**

 Omaka, S., Onwudebelu, U., Okemiri, H.: Enhanced quality service assurance system: a better approach to service delivery. J. Sci. Rep. 3(1), 51–68 (2021). <u>https://doi.org/10.5281/zenodo.5256090</u>

#### Article Google Scholar

12. Rogers, Y., Sharp, H., Preece, J.: Interaction Design-Beyond Human-Computer Interaction, 3rd edn. John Wiley & Sons, New York (2011)

#### Google Scholar

 Erekata, O., Azeta, A., Misra, S., Odusami, M., Ahuja, R.: Development of a text and speech enabled conversational agent for students' activities planning using dialog flow. In: Singh, P.K., Veselov, G., Vyatkin, V., Pljonkin, A., Dodero, J.M., Kumar, Y. (eds.) FTNCT 2020. CCIS, vol. 1395, pp. 486–499. Springer, Singapore (2021). <u>https://doi.org/10.1007/978-981-16-1480-4\_44</u>

#### Chapter Google Scholar

Ojo, B.: Supervision and quality assurance strategies in education: implication for educational policy making. Afr. Res. Rev. 1(2), 1–14 (2008)

#### **Google Scholar**

15. Babalola, J.B.: Management of Primary and Secondary Education in Nigeria. NAEP Publication, Ibadan (2004)

#### Google Scholar

16. Al-Hawari, F., Barham, H.: A machine learning based help desk system for IT service management. J. King Saud Univ. Comput. Inf. Sci. **33**(6), 702–718 (2019)

#### Google Scholar

17. Attanasio, S.D., Sotiropoulos, T., Alami, R.: Design and development of the first prototype of a social, intelligent and connected help desk. In: 3rd International Conference on Computer-Human Interaction Research and Applications, pp. 120–127 (2019)

#### Google Scholar

 Azahari, L.M.H., Ason, M.L.A., Rossiman, N.D., Sion, W.T., Idris, N.A.H.: ICT complaint management within a higher education institute in Brunei Darussalam: a case study. Int. J. 'Umranic Stud. Jurnal Antarabangsa Kajian' Umran 3(1), 13–22 (2020)

#### **Google Scholar**

19. Prasanthi, S., Maganty, C.S., Mupparaju, M.P., Kilaru, M.: An complaint and placement management system using servicenow. J. Crit. Rev. **7**(7), 201–204 (2020)

#### Google Scholar

20. Ojajuni, O., et al.: Predicting student academic performance using machine learning. In: Gervasi, O., et al. (eds.) ICCSA 2021. LNCS, vol.

12957, pp. 481–491. Springer, Cham (2021). <u>https://doi.org/10.1007/978-3-030-87013-3\_36</u>

#### Chapter Google Scholar

 Azeeta, A., Misra, S., Odusami, M., Peter, O.U., Ahuja, R.: An intelligent student hostel allocation system based on web applications. In: Singh, P.K., Singh, Y., Kolekar, M.H., Kar, A.K., Chhabra, J.K., Sen, A. (eds.) ICRIC 2020. LNEE, vol. 701, pp. 779–791. Springer, Singapore (2021). <u>https://doi.org/10.1007/978-981-15-8297-4\_62</u>

#### Chapter Google Scholar

 Adedeji, A., Ibukun, A., Rapheal, O., Misra, S., Ahuja, R.: Employability skills: a web-based employer appraisal system for construction students. In: Abraham, A., Siarry, P., Ma, K., Kaklauskas, A. (eds.) ISDA 2019. AISC, vol. 1181, pp. 612–621. Springer, Cham (2021). <u>https://doi.org/10.1007/978-3-030-49342-4\_59</u>

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