



No. 16399/UN27.02/PP/2019 This certificate is presented to

Lutfi Rahmatuti Maghfiroh

as

Speaker

in The International Conference on Science Education and Technology (ICOSETH) 2019

"Facing Industrial Revolution 4.0 and Society 5.0

on Science Education and Technology"

Surakarta, 23 November 2019

DEKAN MARTINAS KAUMAN MARTINAS KAUMAN DIR Mardiyana, M.Si.

Dean of Teacher Training and Education Faculty Universitas Sebelas Maret



Chairman of ICOSETH 2019

Observation and Heuristics Evaluation of Student Web-Based Application of SIPADU-STIS

Lutfi Rahmatuti Maghfiroh

Politeknik Statistika STIS



Previous System Evaluation

Blackbox Testing

SUS

Fajri, Ahmad Nur. Pembangunan Sistem Informasi Dewan Perwakilan Mahasiswa STIS. Skripsi. 2011. Sekolah Tinggi Imu Statistik. Alrasyid, Harun. Pengembangan Sistem Informasi Perpustakaan Sekolah Tinggi Imu Statistik (Aplikasi Desktop Admin, Web Admin dan Pemberitahuan Keterlambatan dengan SMS Gateway). Skripsi. 2011. Sekolah Tinggi Imu Statistik. Damayanti, Anisa Suciningtyas. Pengembangan Konten dan Desain Layout Web Portal Mahasiswa Pada Sistem Informasi Terpadu Sekolah Tinggi Ilmu Statistik (SIPADU STIS). Skripsi. 2016. Sekolah Tinggi Imu Statistik. Hardiantho, Abialam Koespandy, Analisis User Acceptance Terbadap SIPADU STIS. Menggunakap Teori Terbadomy Acceptance Model (TAM) dan Metode Analisis Structural Equation Modeling (SEM). Skripsi 2014. Sekolah Tinggi Imu Statistik



Ben Shneiderman, Designing the User Interface (3rd Ed.), Addison-Wesley,

Jeff Johnson, GUI Bloopers 2.0 - Common User Interface Design Don'ts and Dos, Morgan Kaufmann, 2008

Wilbert O. Galitz, The Essential Guide to User Interface Design: An Introduction to GUI Design Principles and Techniques (3rd Ed.), Wiley Publishing, 2007.



Rais, Nendy Akbar Rozaq, Hari Agustiyo, Moch. Arfian Ardiansyah. 2018. Evaluasi Heuristic Study Kasus Tiket.com. Seminar Nasional Teknologi Informasi dan Multimedia 2018. ISSN : 2302-3805. Aziza, Rifda Faticha Alfa, Yahya Taufiq Hidayat. Analisa Usability Desain User Interface Pada Website Tokopedia Menggunakan Metode Heuristics Evaluation. Jurnal TEKNOKOMPAK, Vol. 13, No. 1, 2019, 7-11. ISSN 1412-9663 Almarashdeh, Ibrahim, Mutasem, Alsmadi. Heuristic Evaluation of Mobile Government Portal Services: An Experts' Review. The 11th International Conference for Internet Technology and Secured Transactions (ICITST-2016). 978-1-908320/73/5/\$31.00 © 2016 IEI Yusoh, Suweena, Sureena Matayong. Heuristic Evaluation of Online Satisfaction Survey System for Public Healthcare Service: Applying Analytical Hierarchical Process. 2017 2nd International Conferences on Information Technology, Information Systems and Elect Salvado, Valeria Farinazzo Martins, Lincoln de Assis Moura Jr. Heuristic Evaluation for Automatic Radiology Reporting Transcription Systems. 10th International Conference on Information Technology - New Generations (ISSPA 2010) Paz, Freddy, Freddy A. Paz, Daniela Villanueva, Jos' e Antonio Pow-Sang. Heuristic Evaluation as a Complement to Usability Testing: A Case Study in Web Domain. 2015 12th International Conference on Information Technology - New Generations Subbian, Vignesh, Philip A. Wilsey, and Fred R. Beyette, Jr., Heuristic Evaluation of User Interface for Point-of-Care Diagnosis and Rehabilitation of Mild Traumatic Brain Injury. 6th Annual International IEEE EMBS Conference on Neural Engineering San Diego, Calif Borovina Nihad. Heuristic based evaluation of mobile services web portal usability. 22nd telecommunications forum TELFOR 2014 Salgado, Andr'e de Lima, Renata Pontin de Mattos Fortes. Heuristic Evaluation for Novice Evaluators. Springer International Publishing Switzerland 2016. A. Marcus (Ed.): DUXU 2016, Part I, LNCS 9746, pp. 387–398, 2016. DOI: 10.1007/978-3-319-40409-7 37

Salgado, Andr'e de Lima, Renata Pontin de Mattos Fortes. Heuristic Evaluation for Novice Evaluators. Springer International Publishing Switzerland 2016. A. Marcus (Ed.): DUXU 2016, Part I, LNCS 9746, pp. 387–398, 2016. DOI: 10.1007/978-3-319-40409-7 37 Botella, Federico, Jose A. Gallud, and Ricardo Tesoreiro. Using Interaction Patterns in Heuristic Evaluation. A. Marcus (Ed.): Design, User Experience, and Usability, Pt I, HCII 2011, LNCS 6769, pp. 23–32, 2011. © Springer-Verlag Berlin Heidelberg 2011 Jakob Nielsen on April 24, 1994. https://www.nngroup.com/articles/ten-usability-heuristics/. Accesed on October 15, 2019

Methods

6 Students

Observation

Questionnaire

Analysis

Rais, Nendy Akbar Rozaq, Hari Agustiyo, Moch. Arfian Ardiansyah. 2018. Evaluasi Heuristic Study Kasus Tiket.com. Seminar Nasional Teknologi Informasi dan Multimedia 2018. ISSN : 2302-3805. Yusoh, Suweena, Sureena Matayong. Heuristic Evaluation of Online Satisfaction Survey System for Public Healthcare Service: Applying Analytical Hierarchical Process. 2017 2nd International Conferences on Information Technology, Information Systems and Elect Jakob Nielsen on April 24, 1994. https://www.nngroup.com/articles/ten-usability-heuristics/. Accesed on October 15, 2019

Questionnaire

Heuristic Aspect of Nielsen

Visibility of System Status
Match between the system and the real world
User control and freedom
Consistency and standards
Recognition rather than recall
Error prevention
Flexibility and efficiency of use
Aesthetic and minimalist design
Help users recognize, diagnose, and recover from errors
Help and documentation

10 Aspect assessment Usability problem level

- not a usability problems,
- cosmetic problems,
- minor usability problems,
- major usability problems,
- usability catastrophes

Match between the system and the real world

Consistency and standards

Recognition rather than recall

Flexibility and efficiency of use

Aesthetic and minimalist design

Help users recognize, diagnose, and recover from errors

Conclusion

there were at least a problem even though it only appeared,

The most severe problem was having to redesign the system.

Suggestion

developers should redesign aspects of control and freedom and flexibility and efficient of use.

> Improvements to improve services to students, especially in the aspects of help users to recognize, dialogue, and recovers from errors

