

**APLIKASI SISTEM KOMUNIKASI PERSONAL
ANAK AUTISTIK**

TESIS

diajukan untuk memenuhi sebagian syarat untuk memperoleh gelar
Magister Pendidikan Khusus



oleh

Ezni Sudrajat

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Aplikasi System Komunikasi Personal Anak Autistik

Oleh
Ezni Sudrajat

S.Pd UPI Bandung, 2009

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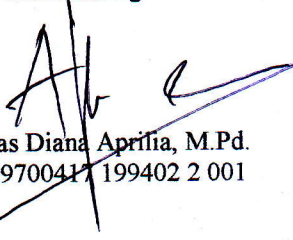
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Pembimbing I



Dr. Tjutju Soendari, M.Pd.
NIP. 19560214 198003 2 001

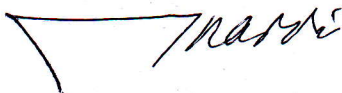
Pembimbing II



Dr. Imas Diana Aprilia, M.Pd.
NIP. 19700417 199402 2 001

Mengetahui,

Ketua Program Studi Pendidikan khusus



Dr. H. Sunardi, M.Pd.

NIP 19600201 198703 1 002

Abstrak

Ketidaksepakatan pemaknaan simbol bahasa antara anak autistik dengan mitra komunikasinya dan terbatasnya media alternatif komunikasi merupakan sumber kegagalan dalam berkomunikasi. Tujuan penelitian ini adalah untuk merumuskan aplikasi sistem komunikasi personal untuk mengatasi permasalahan komunikasi anak autistik dan menguji *quality in use* aplikasi tersebut. Metode penelitian yang digunakan adalah *Mixed method Exploratory design*. Subjek penelitian adalah AD, keluaraganya, walikelas, dan 37 responden orang tua yang memiliki anak autistik dengan hambatan komunikasi nonverbal. Penelitian ini menemukan bahwa bentuk komunikasi nonverbal subjek adalah gestur, mimik dan intonasi suara yang bersifat personal. Dari hasil penelitian tersebut dirumuskan aplikasi yang diberi nama BI-Tjaraku. Aplikasi Bi-Tjaraku memiliki fitur membuat kamus secara personal yang berbentuk video, membuat kalimat dan memberi hak akses kepada orang lain yang disetujui. Pengujian *quality in use* Bi-Tjaraku menggunakan analisis *Partial Least Squares* (PLS). Hasil analisis menunjukkan atribut, efektifitas, produktifitas, keamanan dan kepuasan memiliki nilai T statistic >1.96 (signifikansi tinggi). Artinya bahwa semua konstruk *first order* adalah konstruk dimensi pembentuk konstruk *quality in use*. Sehingga dapat dikatakan aplikasi Bi-Tjaraku memiliki kualitas yang baik menurut para penggunanya. Fitur aplikasi Bi-Tjaraku memberikan kemudahan dalam pengoprasian dan juga memberikan ruang eksplorasi kepada para pengguna dalam mengembangkan bahasa dan komunikasi anak autistik secara personal.

Kata kunci : autistik, komunikasi, nonverbal, Bi-Tjaraku

Abstract

Disagreement on the meaning of language symbols between autistic children and their communication partners also the limited alternative media of communication are the cause of failure in communication. The purpose of this study is to formulate an application of personal communication systems to overcome the communication problems of autistic children and test the quality in use of the application. This Mixed Exploratory design method's subjects in this study were AD, their families, teacher, and 37 respondent parents who have autistic children with nonverbal communication barriers. This study found that non-verbal forms of communication of subjects were gestures, mimics and personal intonation of voice. As the results of this research, an application called BI-Tjaraku was formulated. The Bi-Tjaraku application has features to make personal dictionaries in the form of videos, compose sentences and grant access rights to others who are approved. Bi-Tjaraku quality in use testing uses Partial Least Squares (PLS) analysis. The results of the analysis show the attributes, effectiveness, productivity, safety and satisfaction have a T value of statistics > 1.96 (high significance). This means that all constructs of the first order are the constructs of the dimensions forming the construct of quality in use. So it can be said that the Bi-Tjaraku application has good quality according to its users. The Bi-Tjaraku application features make it easy to operate and also provide exploration space for users in developing the language and communication of autistic children personally.

Keywords: autistic, communication, nonverbal, Bi-Tjaraku

Daftar Isi

Pernyataan	i
Kata Pengantar	ii
Ucapan terimakasih	iii
Abstrak	v
Abstract	vi
Daftar isi	vii
Daftar table	ix
Daftar gambar	x
Daftar lampiran	xi
BAB I PENDAHULUAN	1
1.1 Latar Belakang Masalah	1
1.2 Fokus masalah	6
1.3 Pertanyaan Penelitian	7
1.4 Tujuan Penelitian	8
1.5 Manfaat Penelitian	8
BAB II KAJIAN PUSTAKA	9
2.1 Komunikasi Secara Umum	9
2.2 Proses Terjadinya Komunikasi	13
2.3 Komunikasi Nonverbal	15
2.4 Anak Autistic Nonverbal	21
2.5 Komunikasi Anak autis	23
2.6 Kebutuhan komunikasi Anak autistic nonverbal	29
2.7. Lingkungan Komunikasi Anak Autis Nonverbal	29
2.8 Sistem Komunikasi Personal Anak Autistic Nonverbal (Bi- Tjaraku)	35
2.9 Model Kualitas Untuk <i>Quality In Use</i> ISO / IEC9126	43
2.10 Structural Equation Model SEM) - Partial Least Square (PLS)	47
2.11 Kerangka Berfikir	53
2.12 Penelitian yang Relevan	58
2.13 Hipotesis Penelitian.	60
BAB III METODE PENELITIAN	63

3.1	Langkah-Langkah Penelitian Mix Method Desain Sequential Exploratory	63
3.2	Pendekatan Kuantitatif	67
3.2.1	Partisipan Penelitian	67
3.2.2	Teknik pengumpulan data	68
3.2.3	Analisis data kualitatif	69
3.2.4	Pengujian Kredibilitas	70
3.3	Pendekatan Kuantitatif	70
3.3.1	Populasi dan Sampel	71
3.3.2	Variabel Penelitian	71
BAB IV TEMUAN DAN PEMBAHASAN		83
4.1.	Temuan Penelitian Komunikasi Subjek (AD)	83
4.1.1	KomunikasiSubjek (AD)	83
4.2	Hasil Penelitian Quality In Use Aplikasi Bi-Tjaraku	91
4.2.1	Persespsi Pengguna Terhadap Aplikasi Zeco Sistem	91
4.2.1.1	Evektifitas	92
4.2.1.2	Produktifitas	98
4.2.1.3	Keamanan	104
4.2.1.4	Kepuasan	108
4.2.2	Pengujian Analisis <i>Second Order</i> <i>Confirmatory Factor</i>	112
4.2.2.1	First order confirmatory	113
4.2.2.2	Evaluasi model pengukuran (<i>outer model</i>)	114
4.2.2.3	Uji validitas convergen	115
4.2.2.4	Uji Validitas Discriminan	118
4.3.1.5	Uji Reliabilitas	119
4.2.2.6	Signifikansi <i>First Order</i> <i>Confirmatory</i>	122
4.2.2.7	Evaluasi Model Structural (<i>Inner Model</i>)	122
4.2.2.8	Signifikansi <i>Second Order</i> <i>Confirmatory</i>	122
4.2.2.9	Uji Hipotesis	123

4.3	Pembahasan Hasil Penelitian	.....	125
4.3.1	Bentuk Komunikasi Nonverbal (AD)	.....	125
4.3.2	Aplikasi Personalized Communicatin System (Bi-Tjaraku)	.....	136
4.3.3	Persepsi Quality In Use Menurut Responden	.....	142
4.3.4	Qualitas Aplikasi Zeco Sistem Menurut Pengguna	.....	144
BAB V	Kesimpulan, Implikasi dan Rekomendasi	.....	149
5.1	Kesimpulan	.....	149
5.2	Implikasi	.....	150
5.3	Rekomendasi	.....	151
DAFTAR PUSTAKA			
LAMPIRAN-LAMPIRAN			

Daftar Tabel

Tabel 2.1 Potential Contributors to Nonverbal Communication	18
Tabel 2.2 Types of Communication	20
Tabel. 2.3 Tampilan Antar Muka Aplikasi Bi-Tjaraku	29
Tabel 3.1 Instrumen efektifitas	75
Table 3.2 Instrumen Produktifitas	76
Table 3.3 Instrumen produktifitas	77
Tabel 3.4 Instrumen kepuasan	77
Tabel 3.5 Kriteria rentang skala persepsi responden	80
Tabel. 4.1 Distribusi Frekuensi Indicator A1	92
Tabel 4.2. Distribusi Frekuensi Indicator A2	93
Tabel 4.3 Distribusi frekuensi indicator A3	94
Table 4.4 Distribusi Frekuensi Indicator A4	95
Tabel 4.5 Distribusi Frekuensi Indicator A5	96
Tabel 4.6 Distribusi frekuensi indicator A6	96
Tabel 4.7 Distribusi frekuensi indicator A7	97
Tabel 4.8 Distribusi Frekuensi Indicator B1	98
Tabel 4.9 Distribusi frekuensi indicator B2	99
Tabel 4.10 Distribusi Frekuensi Indicator B3	100
Tabel 4.11 Distribusi frekuensi indicator B4	101

Tabel 4.12 Distribusi frekuensi indicator B5	102
Tabel 4.13 Distribusi frekuensi indicator B6	103
Tabel 4.14 Distribusi frekuensi indicator B7	104
Tabel 4.15 Distribusi frekuensi indicator C1	105
Tabel 4.16 Distribusi frekuensi indicator C2	106
Tabel 4.17 Distribusi frekuensi indicator C3	106
Tabel 4.18 Distribusi frekuensi indicator C4	107
Tabel 4.19 Distribusi frekuensi indicator D1	108
Tabel 4.20 distribusi frekuensi indicator D2	109
Tabel 4.21 Distribusi frekuensi indicator D3	110
Tabel 4.22 Distribusi frekuensi indicator D4	111
Tabel 4.23 Distribusi frekuensi indicator D5	112
Tabel 4.24 Loding faktor	116
Table 4.25 Average variance extracted (AVE)	117
Table 4.26 Fornell-Larcker Criterion	118
Tabel 4.27 Konstruk reliabilitas	119
Tabel 4.28 Hasil Bootstrapping Outer Loading Signifikasnsi First Order Confirmatory	120
Table 4.29 Nilai R-square	122
Table 4.30 Signifikansi varibel endogen dengan variabl eksogen	123
Tabel 4.31 Bentuk Komunikasi Nonverbal Ade	128

Table 4.32 Profil kemampuan, hambatan dan kebutuhan AD	136
Table 4.33 Nilai rata-rata setiap soal	143
Tabel 4.34 Nilai rata-rata setiap atribut quality in use	143

Daftar Gambar

Gambar 2.1 <i>Quality model for quality in use ISO / IEC9126</i>	46
Gambar 2.2 Kerangka Berfikir Sistem Komunikasi Personal Anak Autistik	57
Gambar 3.1 (Prosedur Penelitian Exploratory Dengan Model Instrument Development)	65
Gambar 3.2 Tahapan Penelitian Pengembangan System Komunikasi personal Anak Autistic (Bi-Tjaraku)	66
Gambar 4.1 Diagram analisis jalur	113
Gambar 4.2 Loding faktor	114
Gambar 4.3 Diagram Jalur <i>Outer Loding</i> Hasil Seleksi Indikator	115
Gambar 4.4 Alur pengembangan Aplikasi Bi-Tjaraku	142

Daftar Lampiran

Panduan penggunaan aplikasi Bi- Tjaraku	.....	153
Hasil analisis SmartPLS	160
Instrument	169
Hasil Kuesioner	172
Foto kegiatan penelitian	193

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