UNIVERSITAS
GADJAH MADA

USER INTERFACE DESIGN AND EVALUATION OF INTELLIGENT AQUACULTURE SYSTEM
ADINDA MUTIARA SANTI, Ir. Rini Dharmastiti, M.Sc., Ph.D., IPM., ASEAN.Eng.
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

TABLE OF CONTENTS

COVER i
LEMBAR PENGESAHAN DOSEN PEMBIMBING ii
LEMBAR PENGESAHAN iii
PERNYATAAN BEBAS PLAGIASI iv
DEDICATION PAGE v
PREFACE vi
ACKNOWLEDGEMENTS vii
TABLE OF CONTENTS viii
LIST OF FIGURES x
LIST OF TABLES xi
LIST OF ABBREVATIONS xii
ABSTRACT xiii
INTISARI xiv
CHAPTER I INTRODUCTION 1
1.1.Background 1
1.2.Research Problem 3
1.3.Assumption 3
1.4.Limitation 4
1.5.Research Objectives 4
1.6.Research Benefits 4
CHAPTER II LITERATURE REVIEW 5
CHAPTER III THEORY 10
3.1. Intelligent Aquaculture 10
3.2. User Interface (UI) Design 11
3.2.1. UI Design Process 11
3.2.2. UI Design Principles 12
3.2.3. Graphical User Interface (GUI) 14
3.3. Usability Evaluation 15
CHAPTER IV METHODS **17**
4.1. Study Object 17

UNIVERSITAS
GADJAH MADA
USER INTERFACE DESIGN AND EVALUATION OF INTELLIGENT AQUACULTURE SYSTEM
ADINDA MUTIARA SANTI, Ir. Rini Dharmastiti, M.Sc., Ph.D., IPM., ASEAN.Eng.
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

4.2. Study Instruments 17
4.3. Study Stages 18
CHAPTER V RESULT AND DISCUSSION 25
5.1. Project Manager Interview Result 25
5.2. UI Design 26
5.3. Usability Evaluation 33
5.3.1. Participants Demographic 33
5.3.2. Performance Testing Result 35
5.3.3. Questionnaire Result 38
5.3.4. Interview Result 41
5.3.5. Usability Score Comparison Between User with Different Background 47
5.4. Recommendation for Intelligent Aquaculture UI Design Improvement 55
CHAPTER VI CONCLUSION 57
6.1. Conclusion 57
6.2. Suggestion for Future Research 58
REFERENCE 60
APPENDIX 65