

ACKNOWLEDGEMENT

Bismillahirrahmanirrahim. Praise and gratitude the author conveys to Allah SWT for all the abundance of His grace, guidance, and gifts so that the author can complete the preparation of the thesis entitled **“Development of Android Based Application as a Learning Media on Transpiration Topic in Biology Department Universitas Negeri Medan.”** Writing this thesis was proposed as one of the requirements for obtaining a Sarjana Pendidikan at the Biology Education Study Program, FMIPA, Unimed. In writing this, the author believes that many difficulties are faced, but thanks to the support, guidance, and advice from many parties, the author was able to complete this thesis well. Therefore, the author would like to thanks:

1. Dr. Syamsul Gultom, S, KM, M.Kes as Chancellor of Universitas Negeri Medan.
2. Prof. Dr. Fauziah Harahap, M.Si as the Dean of the Faculty of Mathematics and Natural Sciences, Universitas Negeri Medan.
3. Dr. Jamalum Purba, M.Si as Deputy Dean I, Dr. Ani Sutiani, M.Si as Deputy Dean II and Dr. Rahmatsyah, M.Si as Deputy Dean III of the Faculty of Mathematics and Natural Sciences, Universitas Negeri Medan.
4. Dr. Hasruddin, M.Pd as Head of the Department of Biology, Faculty of Mathematics and Natural Sciences, Universitas Negeri Medan.
5. Wasis Wuyung Wisnu Brata, M.Pd as Head of Biology Education Study Program.
6. Dr. Ely Djulia, M.Pd as the Bilingual Program Coordinator.
7. Dr. Syahmi Edi, M.Si, as the thesis supervisor has provided direction, guidance, and support in the thesis preparation.
8. Prof. Dr. Herbert Sipahutar, M.S., M.Sc, as the academic supervisor, has provided direction, guidance, and support author since beginning of lecture until now.
9. Prof. Dr. Fauziah Harahap, M.Si, Dr. Ely Djulia, M.Pd and Ahmad Shafwan S. Pulungan, S.Pd., M.Si as thesis examiner have provided suggestions in thesis writing.

10. All Mr. and Mrs. Lecturers, administrative staff, and the whole family of the Faculty of Mathematics and Natural Sciences, Universitas Negeri Medan.
11. Especially to Mrs. Zubaidah Chory Muhadi and Mr. Drs. H. A. Chory Muhadi, M.A as author's parent and Novi Wuriandari Tresna Ayu, Dinny Gedrah Ayu, Gilar Taruna Rindha Muhadi, Kidung Pawulang Kalih Rayindha, Rizky Wahyudi, Astin Suliastiani, Khalid Jaffran Rakin Muhadi and Syaqira Rubina as the author's closest family
12. Especially to Mr. Lie Heng Chun, Mrs. Acen, Lie Tung Siong, Lie Tung Wang as author's second family.
13. Especially to Andhio Saputra who has given endless amount of love, support and encouragement in studying.
14. Especially to Arifah, Cicilia, Dinda Anggita Maysarah, Ratu Mashlihan Hasibuan, Tisha Tabhita Siregar and Muhammad Tri Atmadja, who have given endless amount of love and support in studying.
15. Especially to Annisa Syafina and Leni Nurmalinda Lubis, who have been friends since junior high school.
16. Especially to Regina Apricia and Mrs. Husna Wahyuni who has inspired in many ways.
17. Especially to Firza Adha Azmi, Gabriela Fatma, Yayang and Della, who have given fond memories during KKN.
18. All members of the Bilingual Biology Education 2018 class who have been together for 4 years face college life's ups and downs.

The author realizes that this paper is still far from perfect, so the author expects criticism and suggestions from readers to improve this thesis. Finally, the writer hopes this thesis can be helpful for all of us.

Medan, September 2022

Author,

Tyas Kinanti Layung H.

NIM. 41811410114