

PREFACE

This final project did not begin with a blank page or a defined topic, but it began with questions. At the heart of this work lies an exploration of how ideas become systems, how feedback becomes design, and how problems, when understood deeply enough, offer blueprints for meaningful change. This journey has been filled with learning curves, mental roadblocks, and unexpected insights. But more than that, it has been shaped by people, whose presence, directly or indirectly, became the backbone of this work. Therefore, I would like to express my sincere gratitude:

1. To Allah SWT for all of the guidance and blessings have quietly shaped every step of the process. I am deeply thankful for the clarity in moments of doubt, the energy in moment of exhaustion, and all the unseen miracles that moved this process forward.
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8. To my university friends, thank you for making the road less lonely. Whether it was through spontaneous venting, deadline chaos, or shared caffeine-induced panic, you made the grind bearable, and at times, even enjoyable.
9. To my longtime friends, thank you for being anchors in the ever-shifting sea of growing up. Your consistency through the years reminds me that while everything changes, some friendships remain quietly, reliably rooted.
10. To those in university who, knowingly or unknowingly, hurt me, thank you. Your actions forced me to pause, reflect, and rebuild with stronger boundaries and deeper self-awareness. Pain, though unwelcome, became a quiet teacher. And through it, I grew.