



اَبُو سَيِّدِي تَكْوَلُ لِي مَا اَنَا
UNIVERSITI
TEKNOLOGI
MARA



PROCEEDINGS OF JOHOR INTERNATIONAL INNOVATION INVENTION COMPETITION AND SYMPOSIUM 2024 (JIIICaS 2024)



*“Flourish and Nurturing Sustainable
Innovation for a Prosperous Nation”*

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Preface

In the name of Allah, the Almighty who gives us the enlightenment, the truth, the knowledge and with regards to Prophet Muhammad (peace be upon him) for guiding us to the straight path. We thank to Allah for giving us guidance and strength to write this e-book.

This e-book compiles the extended abstracts that submitted to Johor International Innovation Invention Competition and Symposium 2024 (JIIICaS2024), where JIIICaS2024 is a virtual platform for all creative minds to share and present their invention and innovation. Each abstract gives a brief background on the innovation or project.

We hope that this e-book will help the readers to get to know the innovation done by the students and get some ideas to develop future innovation products.

Foreword Rector



Assalamualaikum warahmatullahi Wabarakatuh,
Salam Sejahtera, Salam Malaysia MADANI and
Salam UiTM Dihatiku.

In the name of Allah, the Most Gracious, the Most
Merciful.

It is a great honor to welcome you to the Johor
International Innovation, Invention, Competition, and
Symposium 2024 (JIIICaS 2024). This event

connects various disciplines, focusing on education and engaging educators,
students, researchers, and innovators from all walks of life.

Innovation is not just about ideas; it demands perseverance, creativity, and
determination to turn those ideas into reality. The remarkable projects
showcased today highlight the dedication and spirit of all participants.
Initiatives like this not only explore new technologies but also cultivate skills
and leadership among our youth. At Universiti Teknologi MARA (UiTM) Johor
Branch, we are fully committed to fostering a dynamic culture of innovation,
promoting the commercialization of new products, and encouraging
meaningful collaborations with industry and society.

As we celebrate this event, I would like to extend my heartfelt gratitude to all
sponsors, judges, the College of Computing, Informatics and Mathematics,
UiTM Pasir Gudang Campus as the event organizer, as well as to the
researchers and participants for their hard work in making this event a
success. Let us continue striving for innovation and excellence. May the
ideas presented today inspire us and lay the groundwork for future
achievements.

Thank you.

Associate Professor Dr. Saunah Zainon
Rector
Universiti Teknologi MARA (UiTM)
Johor Branch

(A-SS009) EZEFOOLD HIJAB

Nur Athirah Yasmin Binti Mohd Mawardi¹, Qurratu'aini Syafiah Binti Mohd Azman²,
Nur Hazni Idayu Binti Zuazira³, Siti Hajar Binti Abd Aziz⁴, Nur Dalila Adenan⁵

Faculty of Business and Management,
UiTM Cawangan Terengganu Kampus Dungun, Sura Hujung 23000, Dungun,
Terengganu.

Corresponding author: 2024914383@student.uitm.edu.my
(Qurratu'aini Syafiah Binti Mohd Azman)

ABSTRACT

The traditional practice of Muslim prayer, while profoundly significant, faces challenges in modern times, particularly when travelling or having hectic schedules that prevent the carrying of burdensome prayer attire. This research paper introduces the "EzeFold Hijab," a novel approach developed to tackle these obstacles and enhance the act of praying. This collapsible telekung offers convenience without compromising comfort or functionality through the ingenious construction and use of lightweight, foldable materials. By employing a combination of internet surveys and library research, our methodology revealed a pressing demand within the Muslim community, specifically among women, for a practical prayer apparel that accommodates contemporary requirements. To meet this need, the EzeFold Hijab provides a portable, wrinkle-free solution that is easily transportable in purses or luggage, ensuring unrestricted access to prayer facilities irrespective of location or circumstance. This device promotes religious observance and empowerment among Muslim women through the incorporation of inclusive features and a user-friendly design. This empowers individuals to engage in daily prayers with assurance and simplicity. Based on our investigation, it appears that the EzeFold Hijab fulfils a significant market demand by offering a modernised rendition of conventional garments that harmonises effectively with the demands of contemporary, fast-paced lifestyles. In essence, this development represents a significant advancement in the realm of Muslim apparel, facilitating and expanding the accessibility of prayer observances while empowering women to carry out their religious responsibilities with dignity and sophistication.

Keywords: convenient, perform an obligatory, daily life, travel friendly

1.0 INTRODUCTION

The practice of Muslim prayer, integral to the faith, encounters challenges in contemporary settings, particularly amidst travel or busy daily routines. Central to this challenge is the cumbersome nature of traditional prayer garments, such as the telekung, which often proves impractical for modern lifestyles. In response to this dilemma, this study introduces the concept of the "EzeFold Hijab," a revolutionary solution aimed at bridging the gap between religious observance and practicality. Traditional telekungs, while essential for prayer, present logistical hurdles for individuals on the move, including students, travelers, and professionals. The need for a more convenient and portable alternative is evident, reflecting a desire to integrate

religious practices seamlessly into everyday life. This paper explores the development and implications of the EzeFold Hijab, examining its design, functionality, and impact on Muslim women's prayer experiences. By addressing the challenges associated with traditional prayer garments, this innovation aims to enhance accessibility to prayer facilities and promote religious adherence among Muslim women, regardless of their location or circumstances. Through a combination of online surveys and library research, this study seeks to understand the specific needs and preferences of Muslim women regarding prayer attire, informing the development of a practical and user-friendly solution. The subsequent sections will delve into the objectives, methodology, results, and implications of this research, culminating in a comprehensive analysis of the EzeFold Hijab and its implications for contemporary religious practices.

2.0 OBJECTIVE

The objective of this study is to introduce a practical solution—the EzeFold Hijab—enabling Muslim women to maintain their prayer schedules, even during travel or busy periods. The objectives are diverse, all aimed at addressing challenges associated with traditional prayer garments. Firstly, the aim is to enhance the portability of telekungs, facilitating the fulfillment of religious obligations for Muslim women without hindrance. Secondly, the objective is to reduce the bulkiness of prayer clothes for easy integration into everyday items like backpacks and handbags. Additionally, the goal is to offer a practical yet comfortable solution by designing a compact, iron-free telekung. The overarching aim is to empower Muslim women to practice their faith confidently, regardless of location or circumstances, thereby fostering inclusivity within communities. Through an in-depth exploration of the wants and needs of Muslim women, the study seeks to develop a culturally sensitive and user-friendly solution tailored to the diverse requirements of the target audience.

3.0 METHODOLOGY

The study utilises a combination of internet questionnaires and library research to collect extensive data and get valuable insights into the requirements and choices of Muslim women about prayer dress. The method commences with a comprehensive literature analysis to comprehend the prevailing difficulties encountered by Muslim women in upholding their religious beliefs while travelling or managing demanding lifestyles. This evaluation will guide the creation of survey questions designed to accurately capture the precise requirements and expectations related to prayer clothing.

The online surveys are disseminated to several cohorts of Muslim women, encompassing students, professionals, and travellers, in order to guarantee a representative sample. The surveys collect data on variables such as preferred materials, design characteristics, and pragmatic considerations for prayer apparel. In addition, participants are asked to offer feedback regarding their experiences with conventional telekungs and propose enhancements or advancements.

Concurrently, library research is undertaken to investigate current solutions and advancements in prayer dress, encompassing both the Muslim community and other

sources. This study offers valuable insights into the latest trends, technology breakthroughs, and cultural factors that could impact the design and development of the EzeFold Hijab.

The data obtained from the surveys and library research is further examined to ascertain prevalent patterns, preferences, and challenges concerning prayer dress among Muslim women. The study serves as the foundation for the design of the EzeFold Hijab, integrating characteristics that cater to the particular needs and requirements emphasised by the research findings.

During the development process, feedback loops are created with participants and stakeholders to guarantee that the final product corresponds to their expectations and preferences. This iterative methodology enables ongoing enhancement and advancement through user feedback, ultimately leading to a culturally sensitive, user-friendly, and practical solution for Muslim women who need easy prayer apparel for both travel and daily activities.

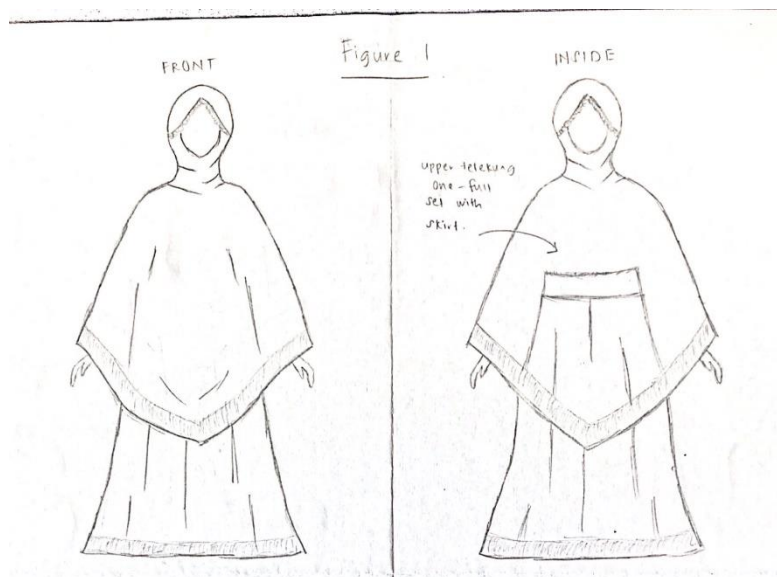


Figure 1: Instant Travel Telekung in one full set

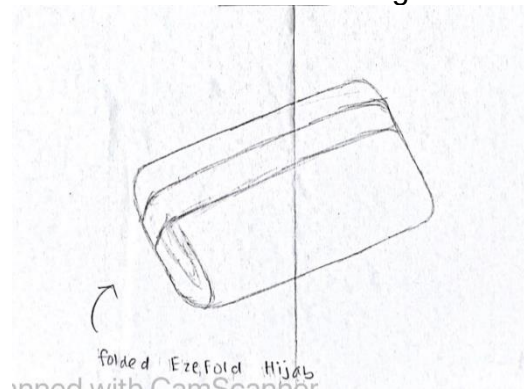


Figure 2: EzeFold Hijab in instant travel size.

4.0 RESULTS

The EzeFold Hijab is the result of years of research and development. It is a revolutionary tool that gives Muslim women the power to keep up with their prayer routines even when they are travelling or living a busy life. We learned a lot about what Muslim women want and need when it comes to prayer clothes by using a thorough method that included both online surveys and library study. As a big step forward from traditional prayer clothes, the EzeFold Hijab is easier to carry around and doesn't take up as much space. It also has features that make it useful while still being comfortable. Our new idea supports inclusivity and empowerment within Muslim communities by bridging the gap between religious duty and practicality. Our iterative product development process also makes sure that the EzeFold Hijab meets the wide range of needs of our target audience. This shows that we are committed to cultural awareness and user-centered design. In the end, our study led to a revolutionary solution that lets Muslim women practise their faith with ease and confidence, no matter where they are or what is going on.

5.0 CONCLUSION

To sum up, the process of making the EzeFold Hijab has been one of discovery, creation, and empowerment. The complex needs and preferences of Muslim women regarding prayer attire were found through a careful method that included online surveys and a lot of library study. These results were used as a guide to create this ground-breaking answer, which cleverly and effectively solves the problems with traditional prayer clothes.

The EzeFold Hijab is more than just a useful item; it shows that Muslim groups care about being open to everyone, making things easy, and respecting different cultures. This new invention makes it easier for Muslim women to practise their faith with confidence, no matter where they are or what their lifestyle requires. It's lighter, easier to carry, and comfier. It shows how dedicated people are to bridging the gap between religious duty and everyday life so that no one is stopped from performing their spiritual duties.

The EzeFold Hijab changes to meet the needs and expectations of a wide range of users because it is focused on constant improvement and user-centered design. Imagine a world where all Muslim women can start their spiritual journey with ease and grace, with new technologies helping them along the way to make their daily lives better.

In its core, the EzeFold Hijab is not just a garment; it is a tool for empowerment that helps Muslim women fully accept their faith while navigating the challenges of modern life. The goal of this book is to encourage more community discussion, teamwork, and new ideas, leading to a future where religious practice is fully integrated into all parts of life.

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