Research Article

E-Sewaan Lembaga Zakat Negeri Kedah

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Abstract: The E-SEWAAN LZNK system is an innovative online reservation platform designed to address the limitations of manual reservation processes for seminar halls and VIP rooms Lembaga Zakat Negeri Kedah (LZNK). The absence of an online system at LZNK necessitates customers to manually fill out reservation forms lacking essential room details, such as maximum capacity, pricing, and visuals. Current procedures involve lengthy waiting times for postal notifications regarding reservation status, while reservation records are stored using a timeconsuming filing system. In response, the E-SEWAAN LZNK system was developed with the objectives of creating an online reservation system, establishing a systematic database for efficient information storage, and providing detailed room information. The Waterfall methodology was employed, including phases such as requirement gathering, design, implementation, testing, and maintenance. Findings indicate that the system significantly improves reservation times, enabling online submissions and real-time approval checks. Moreover, it enhances data security, eliminates manual processes, and provides customers with comprehensive room details. In this digital era, where speed and convenience are valued, the E-SEWAAN LZNK system meets public preferences for easy and efficient reservation methods. It improves the organization and storage of reservation information, eliminates the need for manual bookings, and ensures data confidentiality. Customers can easily access room details, including photos and pricing, simplifying the reservation process. Overall, the system offers a modern and user-friendly approach, and user-centric solution for reserving seminar halls and VIP rooms at LZNK.

Keywords: online reservation system, manual reservation, room reservation system.

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1. INTRODUCTION

The current manual form-based system lacks crucial details, such as room capacity, pricing and visual references, limiting customers ability to make informed decisions faced by Lembaga Zakat Negeri Kedah (LZNK) in its room reservation process. Additionally, the lengthy waiting period for reservation approval and the cumbersome traditional filing system for record management impede operational efficiency. To overcome these limitations, the E-Sewaan LZNK system will be developed, providing an efficient online reservation platform and an enhanced record management system.

The E-Sewaan LZNK system will offer a user-friendly interface with comprehensive information about seminar halls and VIP rooms, including capacity, pricing and visual representations (Johnson, 2021; Roberts & Turner, 2018). By incorporating these details, customers can make well-informed booking decisions, enhancing their overall experience. The system will replace the manual form submission process with a streamlined online reservation process, reducing waiting times for approval and providing instant confirmation.

To address record management challenges, the E-Sewaan LZNK system will introduce a digitalized record management system and eliminating the inefficiencies of traditional filing (Brown & Garcia, 2019). This digital system will enable efficient retrieval and tracking of previous reservations, improving operational efficiency and reducing administrative burden.

The project will follow a structured development methodology, including requirements gathering, system design, implementation and testing. The development team will collaborate closely with LZNK staff to ensure the system meets their specific needs and requirements. User training and support will be provided to ensure a smooth transition (Anderson, 2020).

By implementing the E-Sewaan LZNK system, LZNK aims to enhance reservation efficiency, improve customer satisfaction and optimize record management. The user-friendly interface, comprehensive information and streamlined reservation process will contribute to a seamless and convenient experience for both customers and LZNK staff.



2. METHODOLOGY/DESIGN SOLUTION

Figure 1: Waterfall Model

The waterfall model is a sequential development process that flows like a waterfall through all phases of a project analysis, design, development, testing and maintenance for example with each phase completely wrapping up before the next phase begins.

i. Requirement

In this phase, we collect information requirements and analyse the feasibility of developing E-Booking LZNK system. In addition, we also held an interview with the responsible officer at the LZNK organization to obtain approval and requirements in the process of developing the system.

ii. Design

The design phase is the phase to design the input and output interface and design database. User requirements specifications that have been obtained is translated into a more organized form. The database system was developed using phpMyAdmin Meanwhile, the system interface will be developed using Adobe Dreamweaver software.

iii. Phase Implementation

This phase is also known as the testing phase where programmers code in the software to develop the system based on the requirements that have been listed in the requirements phase, then the programmers design the system based on the elements that have been set by the client. After that, the programmer needs to ensure that the developed system is free of any errors that occur while the system is running.

iv. Testing

This phase is also known as the testing phase where the entire system will be tested before being used as a complete system. The program code will be tested whether it can work or not. This phase is carried out to identify that the developed program code is free from any errors. A system test will be performed to ensure that no errors occur while the system is running. The system will be handed over to users for testing and evaluation.

In this testing phase we will conduct user acceptance test with LZNK either the system complies with LZNK prerequisites and give LZNK to test the system. After that, update the coding if any issues arise while testing the system and retest the EBOOKING LZNK system.

v. Maintenance

The maintenance phase is the last phase after the system is developed. Maintenance allows developers to make improvements to errors that were not detected in the earlier stages. Maintenance includes repairing errors, improving the implementation of the system unit, upgrading and adjusting the system as needed. If customers and users face problems during the testing phase, then programmers need to find solutions to those problems. Then make improvements to the system from time-to- time based on the progress of the ICT environment. For example, maintenance in terms of user requirements, errors in the system and make sure the system works smoothly.

3. FINDINGS



Figure 2: Login interface

Sila Pilih Tarikh							
Tarikh Mula *		Tarikh Tamat *					
dd/mm/yyyy	::*	dd/mm/yyyy		Carian Tarikh			
Maklumat Penting !!! Syarat - syarat kepada Penyewa • Penyewa/Pengguna adalah bertanggungjawab akan keselamatan dan kebersihan Dewan/Bilik Seminar berkenaan sepanjang tempoh penggunaan tersebut.							
• Sebarang untuk dibai • Segala pe	ki atau diganti. ralatan dan kemudahan yar	ng digunakan hendaklah dija	ga dengan baik dan disimpan semu	la di tempat asal dalam keadaan			

Figure 3: Search date to check availability room

/aklumat Bilik / Dewan				
Sila isi semua dengan lengkap				
ilik/Dewan *				
Bilik Seminar, Dato' Seri Paduka Tuan 1				
Sila Plüh Dewan Dato' Shaikh Mahmood Naim Bilk Seminar, Dato' Seri Paduka Tuan 1 Bilk Seminar, Dato' Seri Paduka Tuan 2 Bilk VIP				
.ktiviti *				
Nama Program / Aktiviti				
Maklumat Bilik / Dewan Sila isi semua dengan lengkap Bilik/Dewan Bilik/Dewan Bilik Seminar, Dato' Seri Paduka Tuan 1 Masa Mula	©	hingga	Masa Tamat *	° ©
Aktiviti *				
Nama Program / Aktiviti				
Peserta				
40				
Borang Permohonan				
Muat Naik File atau Gambar				Muat Naik

Figure 4: Reservation form

	=						NABIL	IZZAT BIN I	BRAHIN
Utama Senarai Bilik Borang Tempahan	Statu	s Tempahan And	la				Search:		
Chattan Tananahara	#0	Nama Bilik	Maklumat Tempahan	File Sokongan	Lampiran	Tarikh - Masa 🔇	Status	Batal	Cetak
Maklumat Diri	1	Dewan Dato' Shaikh Mahmood Naim	NABIL IZZAT BIN IBRAHIM Bengkel Al-Fatihah 150 orang 0147896523	260523Biasa(a)187.pdf		26/05/2023 26/05/2023 08:30 am 10:30 am	Permohonan	Batal	۵
	2	Bilik Seminar, Dato' Seri Paduka Tuan 2	NABIL IZZAT BIN IBRAHIM MAJLIS MAKAN 40 orang 0147896523	230523Biasa(a)5042.pdf	Lulus(a)9985160523.pdf	23/05/2023 23/05/2023 09:01 am 10:03 am	Telah Lulus		۵
	3	Bilik Seminar, Dato' Seri Paduka Tuan 2	NABIL IZZAT BIN IBRAHIM Majlis Khatam AL-Quran MMPS 40 orang 0147896523	310523Biasa(a)9353.pdf		30/06/2023 30/06/2023 01:30 pm 04:00 pm	Sedang Proses		۵
	4	Bilik VIP	NABIL IZZAT BIN IBRAHIM Mesyuarat Ahli PIBG MMPS 20 orang 0147896523	250523Biasa(a)269.pdf	Tolak(a)3695150523.pdf	28/09/2023 28/09/2023 10:30 am 03:30 pm	Ditolak		۵
	5	Dewan Dato' Shaikh Mahmood Naim	NABIL IZZAT BIN IBRAHIM Majlis Musabaqah Kebangsaan 150 orang 0147896523	050623Biasa(a)1327.pdf		05/06/2023 05/06/2023 08:30 am 04:30 pm	Permohonan	Batal	۵





Figure 6: Reservation status user in email

	Baru 🚺	Proses 3	Lutus	Tolak	Batal
Telah	Ditolak				
Excel				Search:	
# 0	Nama Bilik 📀	Maklumat Tempahan	File Sokongan	File Lampiran	Tarikh - Masa
1	Bilik Mesyuarat Dato' Mursyid Diraja Syeikh Abdul Majid	MUHAMMAD ZAMBRI BIN SULAIMAN 20 KG PANDANG DEPAN 04900 PENDANG KEDAH Majita Perasmian Aplikasi JAK 20 orang 0149322665	250523Agensi(a)1539.pdf		25/05/2023 26/05/2023 08:15 am 03:15 pm
2	Bilik Mesyuarat Dato' Mursyid Diraja Syeikh Abdul Majid	AMIN BIN AHMAD TAMAN SEROJA DALAM PAYA TERENDAM 0B340 SIK KEDAH Seminar Bulanan JAIK 20 orang 0147859632	230523Agensi(a)8736.pdf	Tolak(a)6231150523.pdf	23/05/2023 25/05/2023 08:15 am 03:15 pm
3	Bilik Mesyuarat Dato' Mursyid Diraja Syeikh Abdul Majid	AMIN BIN AHMAD TAMAN SEROJA DALAM PAYA TERENDAM 08340 SIK KEDAH Mesyuarat Ahli PIBG MMP5 20 orang	250523Biasa(a)269.pdf	Tolak(a)3695150523.pdf	25/05/2023 25/05/2023 10:30 am 03:30 pm

Figure 7: Reservation status admin

				PRINT
	Tahun			
	 Semual 			~
Bilangan Batal	Bilangan Baru	Bilangan Lulus	Bilangan Tolak	Status
1	5	3	0	Semua Baharu Lulus Tolak
0	2	0	2	Semua Baharu Lulus Tolak
2	1	2	3	Semua Baharu Lulus Tolak
0	1	2	2	Semua Baharu Lulus Tolak
0	2	0	0	Semua Baharu Lulus Tolak
3	11	7	7	28
	Bilangan Batal 1 0 2 0 0 3	Tahun Semual Bilangan Bilangan 1 5 0 2 2 1 0 2 0 1 0 2 0 2 0 2 1 1	Tahun Serrea Bilangan Bilangan Bilangan 11 5 3 10 2 0 20 2 0 21 2 2 00 2 0 00 1 2 00 2 0 3 3 3	TahunSeruaBilanganBilanganBilanganBilangan1530153002021020210123002021020031177

Figure 8: Reservation analysis can sort by location or date

Name Biardn	US TEMPARAN						Print		1 page
Dewan Date' Shakh Mahmood Naim 1 1 0 3 Bilk Seminar, Date' Seri Paduka Tua 1 0 1 0 1 3 Bilk Seminar, Date' Seri Paduka Tua 2 0 1 1 3 Bilk VIP 0 1 0 1 2 JUMLH STATUS 1 4 2 2 9 Margins Minimum • • • • Bilk VIP 0 1 4 2 9 • Options • • • • • • Bilk VIP 0 1 2 9 •	Nama Bilik / Dewan	Bilangan Batal	Bilangan Baru	Bilangan Lulus	Bilangan Tolak	Jumlah Tempahan	Destination	Save as PDF	-
Bilk Seminar, Dato' Seri Paduka Tuan 1 0 1 0 1 3 Bilk Seminar, Dato' Seri Paduka Tuan 2 0 1 1 3 Bilk VP 0 1 0 1 2 JUMLAH STATUS 1 4 2 2 9 Margins Margins I Headers and footers Background graphics	Dewan Dato' Shaikh Mahmood Naim	1	1	1	0	3		-	
Bits Seminar, Dato' Sei Paduka Tuan 2 0 1 1 3 Bits VP 0 1 0 1 2 JUMLAH STATUS 1 4 2 2 9 Margins Minimum Image: Constrained to the second to the sec	Bilik Seminar, Dato' Seri Paduka Tuan 1	0	1	0	0	1	Pages	All	*
Bilk VIP 0 1 0 1 2 JUMLAH STATUS 1 4 2 2 9 Margins Minimum Options Background graphics	Bilik Seminar, Dato' Seri Paduka Tuan 2	0	1	1	1	3			
JUMLAH STATUS 1 4 2 2 9 Margins Minimum Image: Constrained on the const	Bilik VIP	0	1	0	1	2	Pages per sheet	1	*
Options Headers and footers	JUMLAH STATUS	1	4	2	2	9	Margins	Minimum	
							Options	 Headers and foot Background graph 	ers hics



NLFUNIFL	LANGGAN	
		Search:
NAMA	EMAIL	O NO PHONE
NABIL IZZAT BIN IBRAHIM	nabilizzat38@gmail.com	0147896523
SULAIMAN BIN ABD LATIF	sulaiman@gmail.com	0177859632
NABIL IZZAT BIN IBRAHIM	assss@gmail.com	0125487895
`ZAINAL ABIDIN BIN ZUBAIR	zainal@gmail.com	0123698547
'ZAQUAN @ ADHA BIN ZAKARIA	zaquan@gmail.com	0150148715
MUHAMMAD HAFIZ BIN SAMSURI	hafiz@zakatkedah.com.my	0174548396
ADHA MUBIN BIN ABDULLAH	adhaabd@gmail.com	01121325465
ABDULLAH MASUUD BIN HJ LONG	abdullah@gmail.com	0125478963
	NAMA NABIL IZZAT BIN IBRAHIM SULAIMAN BIN ABD LATIF NABIL IZZAT BIN IBRAHIM 'ZAINAL ABIDIN BIN ZUBAIR 'ZAQUAN @ ADHA BIN ZAKARIA MUHAMMAD HAFIZ BIN SAMSURI ADHA MUBIN BIN ABDULLAH ABDULLAH MASUUD BIN HJ LONG	NAMA EMAIL NABIL IZZAT BIN IBRAHIM nabilizzat38@gmail.com SULAIMAN BIN ABD LATIF sulaiman@gmail.com NABIL IZZAT BIN IBRAHIM assss@gmail.com 'ZAINAL ABIDIN BIN ZUBAIR zainal@gmail.com 'ZAUNAL ABIDIN BIN ZUBAIR zainal@gmail.com 'ZAUNAL ABIDIN BIN ZUBAIR zaquan@gmail.com 'ZAUNAL ABIDIN BIN ZAKARIA zaquan@gmail.com MUHAMMAD HAFIZ BIN SAMSURI hafiz@zzakatkedah.com.my ADHA MUBIN BIN ABDULLAH adhaabd@gmail.com ABDULLAH MASUUD BIN HJ LONG abdullah@gmail.com

Figure 10: Record customer

Excel	Print			ę	Search:
ID 🗘	NAMA	EMAIL	NO TELEFON	NAMA PEGAWAI	NO TELEFON PEGAWAI
1	BOMBA ANAK BUKIT	bombaAB@gmail.com	0122909921	AMIR RUDDIN BIN NIZAM	01121352455
2	ZAKAT KOTA SETAR	lembagazakatkedah@gmail.com	0142563987	SAIFUL APEK BIN ZAKARIA	0147415826
3	JABATAN AGAMA ISLAM KEDAH	aziblhadi99@gmail.com	0198523647	ZAMRI TALIB BIN HJ LAN	01145879635



REPORT PEGAWAI								
Excel Print			Search	n:				
NO. IC	\diamond	NAMA	EMAIL	NO PHONE				
010205026753		NABIL AMIN BIN ZUKIFLI	nabil22@gmail.com	0154789632				
820201020059		MUHAMMAD ZAYNE SHAIK BIN ABDUL	zayne2209@gmail.com	0145269873				
980202025524		HARTINI BT HALIZA	hartini@gmail.com	0123654789				
showing 1 to 3 of 3	entries		P	revious 1 Next				

Figure 12: Record officer

	REPOR	I ADMIN	
Excel Pr	int		Search:
ID 🗘	NAMA	USERNAME	JENIS
1	AZIB LUTFIL HADI BIN ABD HAMID	alhadi69	Super Admin
2	MUHAMMAD ADHA BIN ABDULLAH	adha02	Bilik / Dewan
3	MUHAMMAD ZAYNE KAMIL BIN AKMAL	zayne2	Mesyuarat
4	MUHAMMAD ZARIS BIN ROZAIMI	zaris23	Bilik / Dewan

Figure 13: Record admin

lznk	=						ADMIN \varTheta
+ Bilik / Dewan > + Bilik Mesyuarat > * Super Admin ~ - Analitik - Urusan Bilik - Tetapan Admin	Data Bilik / Dr. Excel Jenis Bilik 💝	ewan Nama Bilik Bilik Mesyuarat Dato' Mursyid	Gambar Utama & Tambahan	Kemudahan	Harga C	Search:	Tambah Bitik Kemaskini
 Tetapan Pergawai Tetapan Pengguna 	Kakitangan	Dinja Syeish Abdul Majid Dewan Dato' Shaish Mahmood Naim	Utama VIP.jpg	20x kerusi 1 x Dewan (Aircond) 1 x Rostrum 1 x Meja Pendaftaran 1 x Meja Pendaftaran 1 x Meja Pendaftaran 1 x Meja Padaftaran 1 x Arga Pruth 1 x Pagan Puth + Marker Pen 3 x Layar Puth PA sistem Wifi 24 botst x air mineral (350ml) Tempat Letak Kereta	- RM2200.00 • 8.00 pagi - 12.00 tengahari - RM1.000.00 • 5.00 petang - RM2.000.00 • 8.00 pagi - 10.00 malam - RM2.500.00	20 orang	

Figure 14: Admin can add, update or delete room details for reservation

<u>LZNK</u>	≡ A	
+ Bilik / Dewan >		
+ Bilik Mesyuarat >	Tambah Data Bilik / Dewan Urusan Bilik	
* Super >	Aeris *	
	Sila Pilih-+- v	
	D D	
	Nama Bilk	
	Gambar Utama *	
	Gambar Utama Muat Nak Gambar	
	Gambar Tambahan *	
	Gambar Tambahan Muat Naik Gambar	
	Kemudahan *	
	Edit # Upgrade	
	⊞≣ ∽ ♂ B I ⋿ च च ≣	

Figure 15: Add new room or seminar hall

lznk	≡							
+ Bilik / Dewan > + Bilik Mesyuarat >	Pers	endirian	Agensi					
 Super Admin Analitik Urusan Bilik 		Persendirian Dattar Pengguna Persendirian Show 10 ~ entries Search:						
Tetapan Admin		# 0	Nama	Maklumat Peribadi	Status Pengguna 🛇	Kebenaran Maklumat 🔅	Kemaskini 🛇	
• Tetapan Pegawai • Tetapan Pengguna		1	NABIL IZZAT BIN IBRAHIM	010205020013 6009 KG CHEPOH 05300 ALOR SETAR KEDAH 0147896523 nabilizzat38@gmail.com	Aktif	Setuju	Data Peribadi Kata Laluan	
		2	SULAIMAN BIN ABD LATIF	010405020301 6009 KG CHEPOH 05300 ALOR SETAR KEDAH 0177859632 sulaiman@gmail.com	Aktif	Setuju	Data Peribadi Kata Laluan	
		3	NABIL IZZAT BIN IBRAHIM	020129020917 LOT 852 DERGA JAYA 05300 ALOR SETAR KEDAH 0125487895 assss@gmail.com	Aktif	Setuju	Data Peribadi Kata Laluan	
		4	`ZAINAL ABIDIN BIN ZUBAIR	860101020305 20 KG ALOR SEMELA 05300 ALOR SETAR KEDAH 0123698547 zainal/0mail.com	Aktif	Setuju	Data Peribadi Kata Laluan	

Figure 16: Admin can set user status and password

	=	
+ Bilik / Dewan > + Bilik Mesyuarat >	KEMASKINI DATA PEG	3 Dattar Pegawai
Super Admin ~	Show 10 - entries NAMA : HARTINI BT HALIZA	Search:
 Urusan Bilik Urusan Bilik Tetapan Admin Tetapan Pegawai Tetapan Pengguna 	Impose 1 9354 Random Num 1 Divisyen Kewar Lembaga Zakat HANTAR	tif CATA PERIBADI
	(NABIL AMIN Timbalan Pegawai Eksekutit 2 Divisyen Kewangan Lembaga Zakat Negeri Kedah.	DATA PERIBADI Tidak Aktif KATA LALUAN
	(MUHAMMAD ZAYNE SHAIK BIN ABDUL) Timbalan Ketua Pegawai Eksekutif 3 Divisyen Kewangan Lembaga Zakat Negeri Kedah.	Tidak Aktif KATA LALUAN
	Showing 1 to 3 of 3 entries	Previous 1 Next

Figure 17: Admin can reset randomly password or manually enter new password



Figure 18: For more details about function in this system please scan QR code

4. INNOVATION HIGHLIGHT

i. Online Reservation Platform

The E-Sewaan LZNK system introduces an online platform for seamless reservation of seminar halls and VIP rooms and eliminating the need for manual forms.

ii. Detailed Room Information

The system provides comprehensive details about the available seminar halls and VIP rooms, including room capacity, pricing & visuals and enabling customers to make informed decisions.

iii. Instant Reservation Confirmation

Customers receive immediate confirmation of their reservation status online and eliminating the need to wait for a letter from LZNK.

iv. Efficient Record Management

The E-Sewaan LZNK system implements a digital record management system, making it easier to track and retrieve previous reservation records, such as the number of reservations by room and date.

iv. Enhanced User Experience

By introducing an online reservation system with detailed information and efficient processes, the E-Booking LZNK system aims to provide a smoother and more convenient experience for customers and improving overall satisfaction.

5. COMMERCIAL VALUES/APPLICATION

i. LZNK

Enhanced operations, improved customer satisfaction and optimized record management capabilities contribute to a positive brand image, increased efficiency and better decision-making processes.

ii. Event Management Companies

Convenient and efficient platform for reservations, detailed information and instant confirmation create valuable partnerships and revenue opportunities.

iii. Educational Institutions

User-friendly platform with comprehensive information and visual representations facilitates seamless seminar hall reservations for educational institutions.

iv. Hospitality Industry

Streamlined booking process and collaboration potential provide added value to hotels and resorts, enhancing guest satisfaction and competitiveness.

6. DISCUSSION

The E-Sewaan LZNK system incorporates current IT technologies to revolutionize the room reservation process. The online reservation platform leverages the power of the internet and web-based applications to provide a seamless and convenient experience for customers. It utilizes cloud computing to store and manage reservation data, ensuring accessibility and scalability. The system's detailed room information feature utilizes advanced database management systems to store and retrieve comprehensive details about seminar halls and VIP rooms. This allows for efficient data management and quick retrieval of information. Instant reservation confirmation is made possible through real-time communication technologies, enabling customers to receive immediate confirmation online. This reduces dependency on traditional mail systems and speeds up the reservation process.

Efficient record management is achieved through the implementation of a digital record management system. This involves the use of database technologies to store and organize reservation records, allowing for easy tracking and retrieval. The E-Sewaan LZNK system showcases the integration of various current IT technologies such as web-based applications, cloud computing, real-time communication, and database management systems. These technologies enhance the system's functionality, efficiency, and user experience, aligning with the advancements in IT technology in today's digital age.

7. CONCLUSION

The development of the E-Sewaan LZNK system brings significant value to Lembaga Zakat Negeri Kedah (LZNK) and its stakeholders. The system aims to enhance reservation management efficiency, improve customer experience and optimize record management. By implementing the E-Sewaan LZNK system, LZNK will streamline the reservation process, eliminating manual form submission and reducing approval waiting times. Customers will benefit from a user-friendly platform, instant confirmation and comprehensive information about seminar halls and VIP rooms, resulting in improved customer satisfaction.

Furthermore, the system's digitalized record management capabilities will improve operational efficiency by replacing the traditional filing system. It will enable efficient retrieval and tracking of previous reservations, saving time and reducing administrative burden. The commercial value extends to event management companies, educational institutions and the hospitality industry. Event management companies will have a convenient platform for reservations, fostering partnerships and revenue opportunities. Educational institutions will benefit from a simplified reservation process for seminar halls. The hospitality industry will experience a streamlined booking experience and collaboration potential.

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