



PID
86

SMART BOOKING PLATFORM FOR SPORT AND PUBLIC RECREATION FACILITIES

A REAL-TIME DIGITAL RESERVATION AND MANAGEMENT SYSTEM



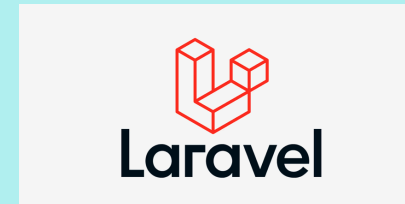
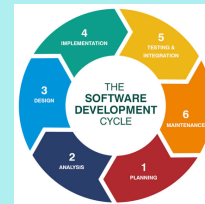
DESCRIPTION

Community halls (Dewan) and sports facilities are widely used for public events and recreational activities in Malaysia. However, many facilities still rely on manual or semi-digital booking methods such as walk-ins, phone calls, and informal WhatsApp messages. These practices often lead to booking conflicts, delayed approvals, and inefficient management. This project proposes a Smart Booking Platform to digitalise and centralise facility reservations.

METHOD

Methodology: Design & Development Research (DDR)

- Needs analysis with facility administrators
- System design and architecture planning
- Development using Laravel and MySQL
- Functional testing and evaluation



INTERFACES OF THE SYSTEM

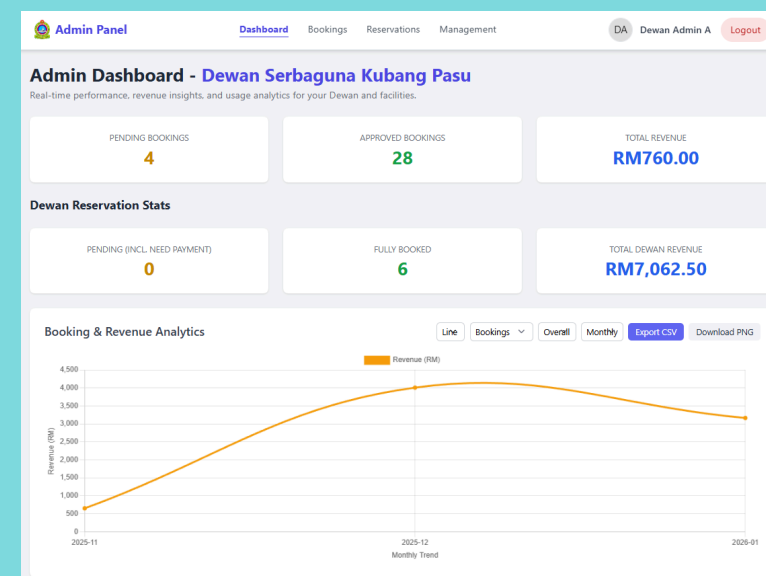
USER MODULE

FACILITY BOOKING

DEWAN RESERVATION

ADMIN MODULE

ADMIN DASHBOARD



APPROVE/REJECT FACILITY BOOKINGS

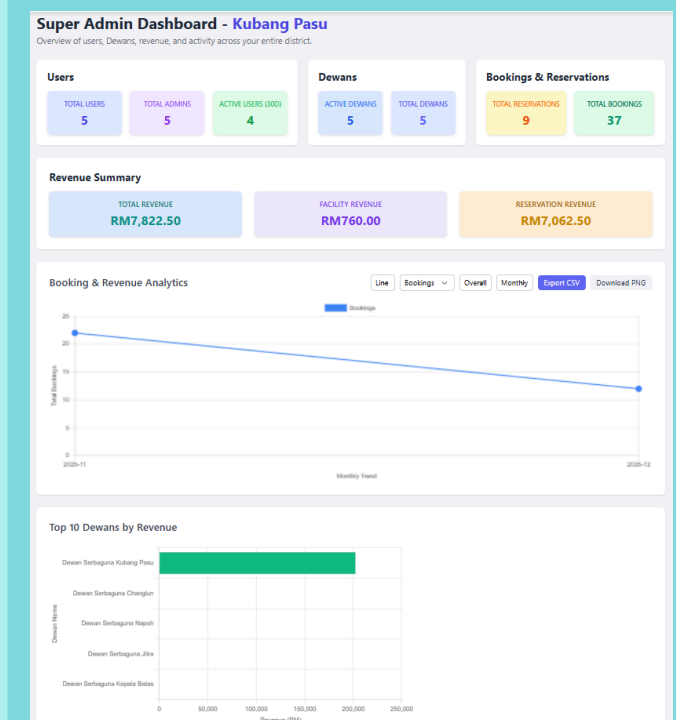
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37	Normal User	Badminton Court	23 Dec 2025	18:00:00-21:00:00	20.00	Approved	View Receipt	Print Receipt Cancel
36	Normal User	Badminton Court	02 Dec 2025	14:00:00-15:00:00	10.00	Pending	No receipt	No action
35	Shah	Badminton Court	02 Dec 2025	12:00:00-13:00:00	10.00	Approved	View Receipt	Print Receipt Cancel
34	Normal User	Futsal Court	01 Dec 2025	15:00:00-16:00:00	30.00	Approved	View Receipt	Print Receipt Cancel
33	Normal User	Badminton Court	01 Dec 2025	20:00:00-21:00:00	10.00	Approved	View Receipt	Print Receipt Cancel

APPROVE/REJECT DEWAN RESERVATIONS

#	User	Event	Date	Total (RM)	Status	Receipts	Action
10	Normal User	AAAA	31 Dec 2025	178.00	Booked	View Receipt	Print Receipt Cancel
9	Shah	Z	24 Jan 2026	1,864.50	Booked	View Receipt	Print Receipt Cancel
8	Normal User	AAAA	11 Dec 2025	904.00	Booked	View Receipt	Print Receipt Cancel
7	Normal User	AAAA	10 Jan 2026	1,299.50	Booked	View Receipt	Print Receipt Cancel
6	Normal User	Kenduri Alagah	24 Dec 2025	904.00	Booked	View Receipt	Print Receipt Cancel

SUPER ADMIN MODULE

SUPER ADMIN DASHBOARD



DEWAN AND ADMIN MANAGEMENT

#	Name	Address	Status	Rate (RM)	Actions
1	Dewan Serbaguna Kubang Pasu	Dewan Admin A (jombangkab.go.id)	Active	RM100.00	Edit Assign Delete
2	Dewan Serbaguna Alor	Dewan Admin B (jombangkab.go.id)	Active	RM100.00	Edit Assign Delete
3	Dewan Serbaguna Kelantan	Dewan Admin C (jombangkab.go.id)	Active	RM100.00	Edit Assign Delete
4	Dewan Serbaguna Chempaka	Dewan Admin D (jombangkab.go.id)	Active	RM100.00	Edit Assign Delete
5	Dewan Serbaguna Negeri Sembilan	Ezz Zikry (jombangkab.go.id)	Active	RM100.00	Edit Assign Delete

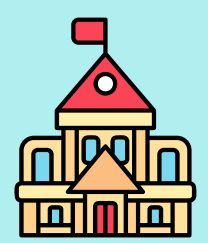
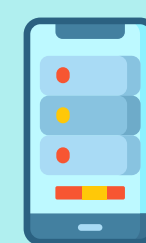
FEASIBILITY OF THE PRODUCT

- Reduces booking conflicts
- Improves administrative efficiency
- Increases transparency in facility management
- Ready for real-world implementation
- Uses cost-effective open-source technologies



FUTURE WORKS

- Online payment gateway integration
- Mobile application support
- Advanced analytics and reporting
- Expansion to district-level deployment



INNOVATORS

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