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RCARS: Residential College Accommodation Rental System for Student Housing Center

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Abstract

RCARS is a web-based Residential College Accommodation Rental System developed for the Student Housing Centre (PRP) of Universiti Tun Hussein Onn Malaysia (UTHM) to address challenges associated with manual accommodation application management. It streamlines the processing of applications, status monitoring, and payments through five main modules. Login and Registration manages user access, while Accommodation Application allows users to submit requests and receive updates. Admin Management oversees applications, packages, hostels, and generates related reports. Payment and Quotation automatically calculate fees and generate receipts, while Room Allocation and Management handles room availability and automate room assignments. Developed using Laravel, HTML, CSS, and JavaScript, RCARS emphasizes usability and operational efficiency. It adopts an incremental prototyping approach, allowing iterative testing and continuous improvement based on user feedback. User acceptance testing indicated high satisfaction in terms of usability, functionality, design, and reliability. By reducing administrative workload and improving overall user experience, RCARS significantly enhances the effectiveness and accessibility of UTHM's residential accommodation management.

1. Introduction

The Student Housing Centre (PRP), known as the Student Housing Unit under the Office of Student Affairs from 2005 to 2012, was restructured and renamed to strengthen its role in managing student accommodation. Approved by the University Board on 20th May 2012, this change aimed to improve the administration of residential colleges and transportation services. In early 2022, a new structure was also approved to centralize the management of residential colleges and student offices without hostels under one responsibility center, PRP aligning with UTHM's core functional clusters [1].

PRP currently oversees accommodations for students, mobility programs, and short-term stays. While applications were once managed online, a system failure led to a return to manual processing. Students must now complete forms and submit them via email with an official letter to PRP. The approval process involves several steps, including coordination between units, quotation issuance, and manual payment—often resulting in delays, missed communications, and calculation errors.

To address these challenges, this project will develop the Residential College Accommodation Rental System (RCARS). It replaces manual forms with an online system to speed up the application process and make it easier for applicants. Applicants can check their application status anytime, without needing to follow up. The system

also generates rental quotations and processes payments automatically, reducing errors. For admin, RCARS makes it easier to review, approve, and assign rooms, helping them manage applications more efficiently.

2. Literature Review

This section will address the study of the Residential College Accommodation Rental System for Student Housing Center (RCARS), and the comparison of similar systems.

2.1 Domain Background

The digital transformation of higher education institutions has accelerated the adoption of smart campus initiatives, which focus on enhancing administrative efficiency, service delivery, and the overall student experience. A smart campus leverages digital technologies to streamline university operations such as accommodation management, course registration, and facility bookings [2]. These systems reduce reliance on manual processes, minimize human error, and provide real-time access to information for both students and administrators. Student housing administration is a key component of this transformation. Previously, rental accommodation applications at the Student Housing Centre were managed manually through paper forms, email correspondence, and lengthy approval procedures. Sample application forms and approval letters are provided in Appendix A. These manual methods often resulted in administrative burdens, delays, and miscommunication. By digitizing the application, approval, and payment processes, a web-based system like RCARS enhances processing speed, accuracy, and transparency, thereby supporting the objectives of a smart campus.

2.2 Comparison of Existing System with RCARS

To improve the RCARS system, a detailed analysis was carried out on three well-known platforms: Booking.com, Airbnb, and iBilik. Booking.com is a global online platform that helps users book various types of accommodation, such as hotels, apartments, and guest houses. Since its launch in 1996, it has grown rapidly due to its user-friendly interface, wide range of options, and helpful features like price comparisons and customer reviews. [3].

Airbnb, launched in 2008, is a platform that allows individuals to rent out their homes or spare rooms to travelers looking for short-term stays. It connects hosts and guests easily through its simple design, offering unique and flexible lodging options while also supporting the sharing economy [4].

Meanwhile, iBilik is a Malaysian-based platform that focuses on property listings and rental services. It allows users to search for rooms or properties to rent or buy using filters like location, price, and property type. With clear listings, images, and direct contact with owners or agents, iBilik simplifies the property search process and supports the local real estate market [5]. Analyzing these platforms helps identify useful features that can be applied to enhance the RCARS system

Table 1 *Comparison between Existing Application and Proposed System*

No.	Features	Booking.com	Airbnb	iBilik	RCARS
1.	Register & Login	√	√	√	√
2.	Application Management	√		√	√
3.	Room Management	√	√	√	√
4.	User Interface	√	√	√	√
5.	Search Functionality	√	√	√	√
6.	Booking Flexibility	√	√	x	√
7.	Payment Processing	√	√	x	√

Table 1 shows that key functions including room administration, search capabilities, user interface, and registration/login are supported by all systems, including RCARS. The integration of application management and improved booking flexibility and payment processing, which are not entirely provided by iBilik, make RCARS stand out. Based on this comparison, RCARS is a more complete and approachable rental accommodation system.

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3. Methodology

This study implements the prototyping software development model to build the RCARS system. The model emphasizes iterative development, where a prototype is constructed, tested, and refined until it meets stakeholder satisfaction. As shown in Fig 1, this model is beneficial when system requirements are not fully understood from the beginning, allowing the system to evolve through close collaboration between developers and users. The prototyping model is a trial-and-error approach involving frequent user feedback to produce a system that better satisfies user needs [6].

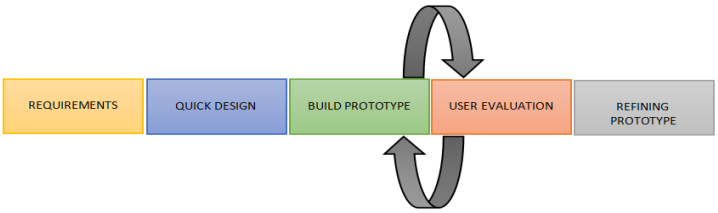

Fig 1: Prototyping Software Development Model

Every development phase, from gathering requirements to refining the completed prototype, has specific requirements and results that help provide an organized framework for the process. This guarantees that the result not only fixes the issues found but also offers system administrators and applicants a better user experience. As indicated in Table 2, every development stage adheres to a defined workflow with distinct deliverables.

Table 2 *Task and Output of each phase*

Phase	Task	Output	Tool
Requirements	• Interview Stakeholder • Gather and analyze system requirement • Determine development tools	• System proposal • Gantt Chart • Use case diagram	• Microsoft Word • Microsoft Excel • Draw.io
Quick Design	• Develop wireframes or mockups of the UI • Define system architecture and components • identify key functionalities and features	• Prototype design specifications • Functional requirements list	• Figma
Build Prototype	• Coding and Programming • Implement core functionalities • Integrate databases • Conduct initial testing	• Functional system prototype • Integrated system prototype • Testing results and identified issues	• Laravel • Visual Studio Code • Laragon • MySQL
User Evaluation	• Conduct usability testing sessions • Conduct User Acceptance Testing (UAT) • Conduct alpha testing • Conduct beta testing • Observe users interacting with the prototype	• User feedback report • UAT results and validation report • Alpha testing report • Beta testing feedback and report	• Google forms • Observation

Table 2: (cont.)

Refining Prototype	● Review user feedback and prioritize changes ● Make necessary adjustments to design and functionality ● Conduct additional rounds of testing ● Update documentation to reflect changes	● Updated prototype ● Revised design document ● Finalized system prototype ● Updated project documentation	● Laravel ● Microsoft Word

3.1 User Requirement Analysis

Table 3 *User Requirement*

Users	Requirement
Applicants	● UTHM applicants should use their SMAP ID or TCIS ID and password. ● Non-UTHM applicants should use their registered email and password. ● Non-UTHM applicants must be able to register for a new account using their personal information. ● Applicants must be able to submit accommodation applications. ● Applicants must be able to view the status of their submitted applications. ● Applicants must receive notifications via email regarding updates to their application status. ● Applicants must be able to download a summary of their accepted bookings. ● Applicants must be able to make online payments for accommodation fees through an integrated payment system.
Admin	● Admins must be able to log in to the system using pre-set credentials. ● Admins must be able to manage room availability (create, update, and delete room details). ● When an admin approves an application, the system must allocate a room and calculate the payment amount automatically. ● Admins must be able to process accommodation applications (approve or reject). ● Admins must be able to track payments. ● Admins must be able to generate booking summaries. ● Admins must be able to generate reports based on applications and payment data. ● Admin must be able to manage hostel, blocks, room, package

3.2 Functional and Non-Functional Requirements

Table 4 *Functional Requirement*

Modules	Functionalities	Users
Login and Registration	● The system shall allow UTHM applicants to log in using their TCIS ID or SMAP ID and password. ● The system shall allow non-UTHM applicants to register for a new account by providing personal information (e.g., name, email, phone number, password). ● The system shall allow non-UTHM applicants to log in using their registered email and password. ● The system shall allow Admins to log in using pre-set credentials. ● The system shall validate login credentials and provide appropriate feedback for successful or failed attempts. ● The system shall provide a "Forgot Password" feature for users to reset their password via email.	Applicants, admin
Accommodation Application	● The system shall provide an accommodation application form for logged-in users. ● The system shall require information such as purpose/program, check-in and check-out dates, number of participants (male/female), and package selection. ● The system shall validate the application form to ensure all required fields are completed and information is accurate. ● The system shall store submitted applications in the database and associate them with the applicant's account. ● The system shall send confirmation emails upon successful submission of an application, including application details and estimated processing time. ● The system shall allow applicants to view and track the current status of their submitted applications. ● The system shall enable applicants to download a booking summary for their accepted accommodation applications. ● The system shall send email notifications to applicants regarding significant updates to their application status (e.g., acceptance, rejection, payment reminders).	Applicants,
Room Allocation and Management	● The system shall allow administrators to add, update, and remove hostels, blocks, rooms, and packages in the database. ● The system shall provide a real-time view of room availability and status (e.g., available, occupied, maintenance). ● The system shall allow administrators to filter rooms by type, occupancy, or date range. ● Upon application approval by an admin, the system shall automatically allocate an available room based on the applicant's requirements and current availability.	Admin

Table 4: (cont.)

Payment and Quotation	● The system shall calculate accommodation costs based on selected packages, duration of stay and number of participants. ● The system shall generate a quotation for applicants upon application submission. ● The system shall allow applicants to make online payments securely via Stripe. ● The system shall update the payment status upon successful transactions. ● Upon application approval, the system shall automatically calculate the final payment due based on the selected package and duration. ● The system shall allow admins to track payments, including completed, pending, or refunded transactions. ● The system shall provide administrators with financial reports, including total revenue and breakdowns of payment status.	Admin, Applicants
Admin Management	● The system shall display the Admin dashboard with key metrics (e.g., number of rooms (available, under maintenance, allocated), total applications (pending, new, rejected), and total revenue) ● The system shall allow administrators to process accommodation applications (approve or reject). ● The system shall allow administrators to search applications by status (pending/accepted/rejected). ● The system shall allow administrators to export application data by selected status (e.g., as an Excel file). ● The system shall allow administrators to view all admin accounts. ● The system shall allow administrators to add new admin accounts with valid data. ● The system shall allow administrators to edit their admin account details. ● The system shall allow administrators to delete admin. The system shall allow administrators to view, add, update, delete semesters or sessions	Admin

Table 5 Non-F*unctional Requirement*

Modules	Functionalities
Operational	● The system should be easy to use for all user types (UTHM applicants, non-UTHM applicants, and admin). ● The system should work with popular web browsers such as Google Chrome, Mozilla Firefox, and Microsoft Edge.
Performance	● The system should have a responsive design to ensure an optimal user experience on various devices, including desktops, tablets, and smartphones. ● The system should ensure that responses to user interactions (e.g., submitting applications, generating reports) are processed within 3 seconds.
Usability	● The system should have an intuitive, easy-to-navigate user interface. ● The system should have a clear and consistent layout, making it easy for all user types (applicants and admin) to use. The system should provide helpful error messages and notifications for user actions requiring attention or correction.
Security	● The system should store passwords in a hashed format to ensure user data security.

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3.3 Use Case Diagram

A use case diagram is a visual representation that illustrates the interactions between users (actors) and the system. It highlights various use cases and their relationships to demonstrate how the system functions from the user's perspective. The Use Case Diagram for the Residential College Accommodation Rental System (RCARS) illustrates the interactions between two primary actors: applicants and administrative staff from the Asset, Operations, and College Facilities Unit. The applicants include UTHM individuals (students and staff) and non-UTHM individuals seeking accommodation. Fig 3 shows the use case diagram of RCARS.

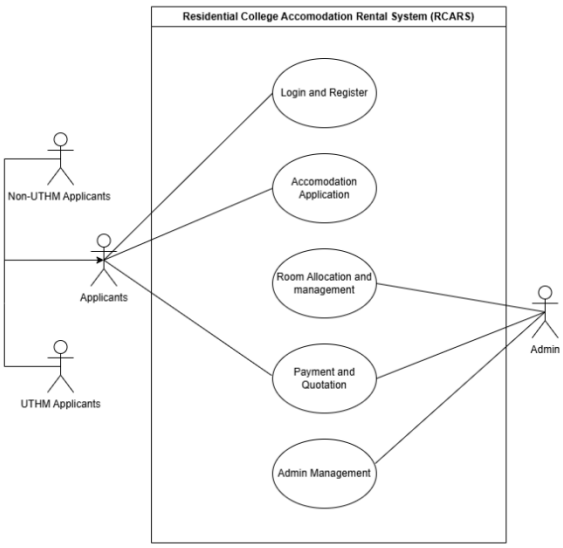


Fig 2: Use Case Diagram

3.4 Class Diagram

The class diagram represents the conceptual model in database modelling, as illustrated in Fig 3 . It includes database tables.

Fig 3: Class Diagram

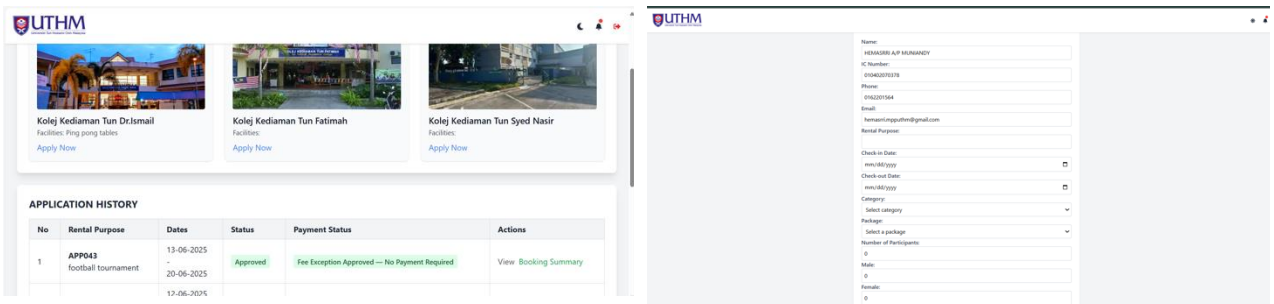
3.5 Implementation of the System

This section demonstrates the developed modules in RCARS. Each module is designed to address specific functionalities such as login and registration, accommodation applications, room allocation and management, payment and quotation and admin management. The following figures show the key interfaces and features of the system. The system's login and registration interfaces are shown in Figs. 4(a) and 4(b). The login screen **is shown** in Fig. 4(a), where users first choose whether to be an administrator, UTHM user, or non-UTHM user. The input fields then dynamically change according to the role that is selected. **This method improves usability by** adapting the form to the **user's context**. The registration screen for non-UTHM users is shown in Fig. 4(b), where they can create an account by providing their contact and personal information.

(a) **(b)**

Fig. 4 *Login and Registration Module (a) Login Page; (b) Register Page*

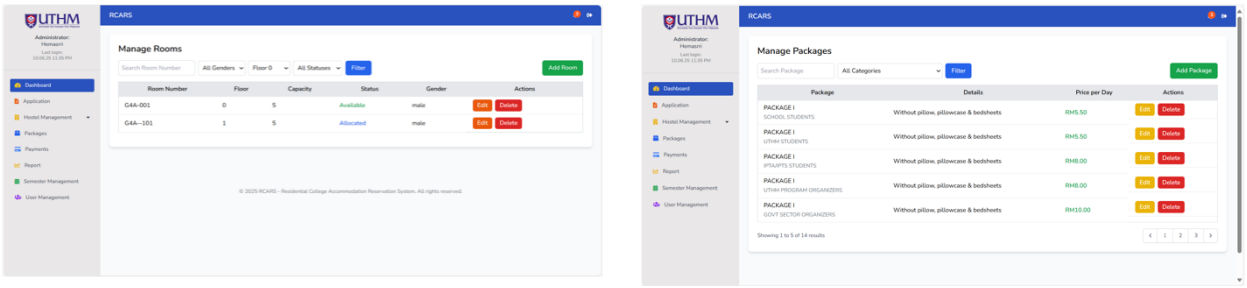
Figures 5(a) and 5(b) show the Accommodation Applications Module's main interfaces. The User Dashboard, displayed in Fig. 5(a), allows users to manage submitted applications, view payment choices, and monitor the status of their accommodation applications. Depending on the status of the application, the dashboard offers real-time updates and action options like "View," "Pay," "Edit," "Delete," and "Booking Summary." The Accommodation Application Form Page, shown in Fig. 5(b), allows users to submit new accommodation requests by completing the necessary information. To help users finish their applications quickly, the form includes input validation and a draft save option.



(a) **(b)**

Fig. 5 Accommodation Applications *Module (a) User Dashboard; (b) Accommodation Application Form Page*

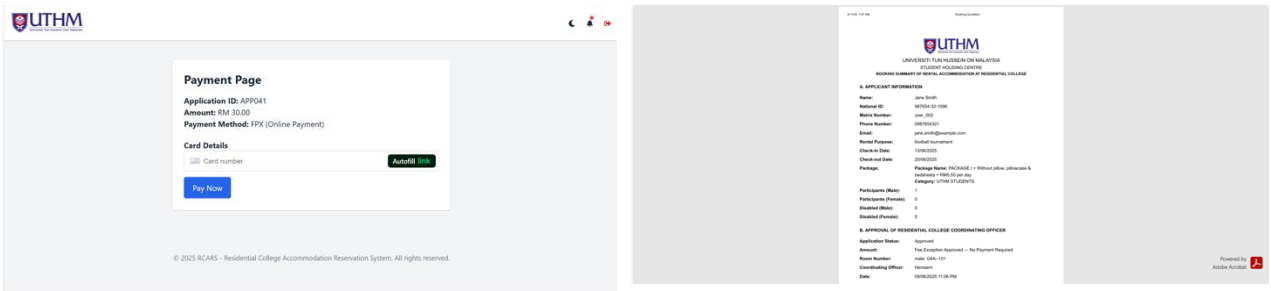
Fig. 6(a) and 6(b) display the interfaces for the Room Allocation and Management Module. Fig. 6(a) shows the Room Management Page, which the admin can manage room details under specific blocks, including adding, editing, deleting, and searching for rooms. Each room is linked to its corresponding hostel and block, ensuring organized room allocation. Fig. 6(b) presents the Package Management Page, which allows the admin to create and manage accommodation packages with specific rental prices based on category and type. These packages are used to calculate the rental fee upon application approval automatically.



(a) **(b)**

Fig. 6 Room Allocation and Management *(a) Room Management; (b) Package Management Page*

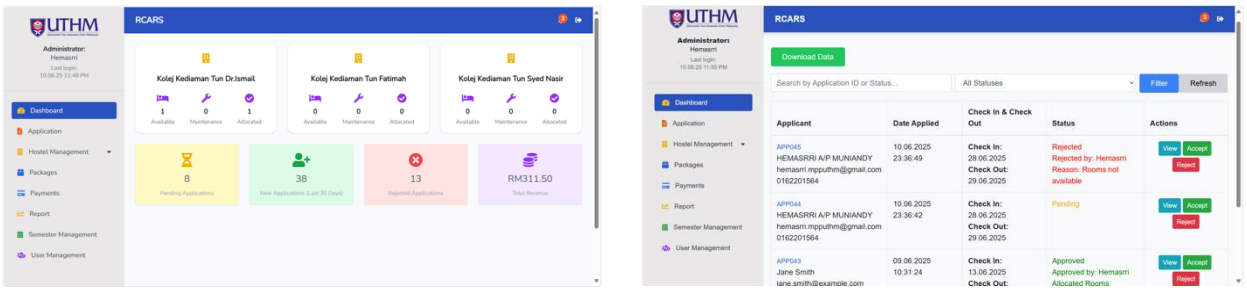
The Payment and Quotation Module's pages are shown in Fig. 7(a) and Fig. 7(b). Figure 7(a) shows the Stripe Payment Page, which enables secure online payment for approved rental lodging applications. Accuracy is guaranteed because the payment amount is generated automatically, and user input errors are minimised. As shown in Fig. 7(b), after a successful payment, users can download the Booking Summary Page, which contains a detailed summary of the reservation, including room information, payment confirmation, and total amount paid.



(a) (b)

Fig. 7 Payment and Quotation *(a) Stripe Payment Page (b) Booking Summary Page*

Figures 8(a) and 8(b) show the main Admin Management Module interfaces. The admin dashboard, displayed in Fig. 8(a), gives a summary of key system information like application statistics, room availability status, and overall revenue. It serves as the main hub for managing many administrative tasks. The Application Review Page, shown in Fig. 8(b), allows administrators to review, accept or reject user applications. If accepted, the system immediately assigns a room and calculates the rental amount; if denied, a justification must be provided prior to submission.



(a) **(b)**

Fig. 8 Admin Management *(a) Admin Dashboard; (b) Application Review Page*

4. Result and Discussion

This section presents the outcomes of the implementation system, including the test plan and UAT. The results demonstrate how RCARS addresses the limitations of the previous manual process. Key findings on system functionality, user experience, and administrative efficiency are also discussed.

4.1 Test Plan

Based on the results presented in Table 6, the test plan for all modules in the RCARS system was successfully executed without any failures. The expected results aligned with the actual outcomes, indicating that the application functioned as intended during testing. Therefore, the test plan confirms that the RCARS system encountered no errors and successfully met the functional requirements of each module.

Table 6 Test *Cases*

Test ID	Requirement	Result (Pass/Fail)
TC-01 Login and Registration		
TC-01-01	The system allows UTHM applicants to log in using their TCIS ID or SMAP ID and password.	Pass
TC-01-02	The system allows non-UTHM applicants to register for a new account by providing personal information (e.g., name, email, phone number, password).	Pass
TC-01-03	The system shall allow non-UTHM applicants to log in using their registered email and password.	Pass
TC-01-04	The system allows Admin to log in using pre-set credentials.	Pass
TC-01-05	The system validates login credentials and provides appropriate feedback for successful or failed attempts.	Pass
TC-01-06	The system provides a "Forgot Password" feature for users to reset their password via email.	Pass
TC-02 Accommodation Application		
TC-02-01	The system provides an accommodation application form for logged-in users.	Pass
TC-02-02	The system validates the application form to ensure all required fields are completed and the information is accurate.	Pass
TC-02-03	The system stores submitted applications in the database and associates them with the applicant's account.	Pass
TC-02-04	The system sends confirmation emails upon successful submission of an application, including application details and estimated processing time.	Pass
TC-02-05	The system allows applicants to view and track the current status of their submitted applications.	Pass
TC-02-06	The system allows applicants to view and track the current status of their submitted applications.	Pass
TC-02-07	The system sends email notifications to applicants regarding significant updates to their application status (e.g., acceptance, rejection, payment reminders).	Pass
TC-03 Room Allocation and Management		
TC-03-01	The system shall allow administrators to add, update, and remove hostels, blocks, rooms, and packages in the database.	Pass
TC-03-02	The system shall provide a real-time view of room availability and status (e.g., available, occupied, maintenance).	Pass

Table 6: (cont.)

TC-03-03	The system shall allow administrators to filter rooms by type, occupancy, or date range.	Pass
TC-03-04	Upon application approval by an admin, the system shall automatically allocate an available room based on the applicant's requirements and current availability	Pass
TC-04 Payment and Quotation		
TC-04-01	The system shall calculate accommodation costs based on selected packages, duration of stay and number of participants.	Pass
TC-04-02	The system shall generate a quotation for applicants upon application submission.	Pass
	The system shall allow applicants to make online payments securely via Stripe.	
TC-04-03	The system shall update the payment status upon successful transactions.	Pass
TC-04-04	Upon application approval, the system shall automatically calculate the final payment amount due based on the selected package and duration.	Pass
TC-04-05	The system shall calculate accommodation costs based on selected packages, duration of stay and number of participants.	Pass
TC-04-06	The system shall allow admins to track payments, including completed, pending, or refunded transactions.	Pass
TC-04-07	The system shall provide financial reports for administrators, including total revenue and payment status breakdown.	Pass
TC-04-08	The system shall update the payment status upon successful transactions.	Pass
TC-05 Admin Management		
TC-05-01	The system shall display the Admin dashboard with key metrics (e.g., number of rooms (available, under maintenance, allocated), total applications (pending, new, rejected), and total revenue)	Pass
TC-05-02	The system shall allow administrators to process accommodation applications (approve or reject).	Pass
TC-05-03	The system shall allow administrators to search for applications by status (pending/accepted/rejected).	Pass
TC-05-04	The system shall allow administrators to export application data by selected status as an Excel file.	Pass
TC-05-05	The system shall allow administrators to view all admin accounts.	Pass
TC-05-06	The system shall allow administrators to add new admin accounts with valid data.	Pass
TC-05-07	The system shall allow administrators to edit their own admin account details.	Pass
TC-05-08	The system shall allow administrators to delete admin account. The system shall allow administrators to view, add, update, delete semesters or sessions in the system.	Pass

4.2 User Acceptance Testing

The User Acceptance Testing (UAT) for RCARS is carried out to assess the system's usability, functionality, completeness, and overall user satisfaction. A total of 15 randomly selected students from UTHM participate in the testing through a Google Forms survey. The questionnaire consists of 10 questions covering key aspects such as feature availability, ease of navigation, interface design consistency, error handling, data accuracy, and satisfaction with system performance.

Questions 1 to 9 are presented in a Yes/No format, allowing participants to quickly indicate whether the system meets specific expectations. These questions ask whether the system includes all the expected features, whether it is easy to navigate, if the user interface is appealing and consistent, if critical functions work correctly, whether data is displayed accurately, and if error messages are clear and helpful. Participants are also asked if they can easily locate all required features without extensive searching. Question 10 uses a 5-point Likert scale ranging from 1 – Poor, 2 – Fair, 3 – Good, 4 – Very Good, to 5 – Excellent, and asks participants to rate their overall satisfaction with the RCARS system. Details of the test questions are available in Appendix B.

The results indicate that 100% of users agree the system is easy to use, complete in its features, accurate in handling data, and clear in managing errors. However, when asked about their overall satisfaction, 13 out of 15 respondents rate the system as "Good," while none select "Excellent." This suggests that although the system performs well overall, there may still be minor areas for improvement. Details of the response data are visualized in Appendix C.

5. Conclusion

In conclusion, RCARS brings many benefits by making the accommodation application process easier and reducing the workload for staff and applicants. With features like automated payments, real-time application tracking, and a user-friendly design, the system helps improve efficiency and transparency. In the future, RCARS can be improved further by adding a mobile-friendly version and more advanced features to manage rooms and support users better. To make the system even more useful and user-friendly, several suggestions are proposed. These include creating a module to track check-in and check-out activities and monitor room usage more accurately. Using QR codes for these processes can also make hostel entry easier and cut down admin work. Adding support for multiple languages can help international students feel more comfortable. Lastly, allowing local payment options like FPX, online banking, and e-wallets will give users more flexible and convenient ways to pay.

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Conflict of Interest

Authors declare that there is no conflict of interest regarding the publication of the paper.

Author Contribution

This journal requires that all authors take public responsibility for the content of the work submitted for review. The contributions of all authors must be described in the following manner:

The authors confirm contribution to the paper as follows: ***study conception and design:*** *Hemasrri Muniandy, Nurezayana Zainal;* ***data collection:*** *Hemasrri Muniandy;* ***analysis and interpretation of results:*** *Hemasrri Muniandy, Nurezayana Zainal;* ***draft manuscript preparation:*** *Hemasrri Muniandy, Nurezayana Zainal. All authors reviewed the results and approved the final version of the manuscript.*

An author name can appear multiple times, and each author name must appear at least once. For single authors, use the following wording:

The author confirms sole responsibility for the following: study conception and design, data collection, analysis and interpretation of results, and manuscript preparation.

References

[1] UTHM, "TENTANG PRP," Portal Rasmi PRP UTHM., Dec. 02, 2024. https://kolejkediaman.uthm.edu.my/index.php/pengenalan/tentang-prp

[2] K. Polin, T. Yigitcanlar, M. Limb, and T. Washington, "The Making of Smart Campus: A Review and Conceptual Framework," Buildings, vol. 13, no. 4, p. 891, Mar. 2023, doi: https://doi.org/10.3390/buildings13040891.

[3] Booking.com, "Booking.com: The largest selection of hotels, homes, and vacation rentals," *Booking.com*, 2025. https://www.booking.com/

[4] Airbnb, "Vacation Rentals, Homes, Experiences & Places - Airbnb," *Airbnb*, 2024. https://www.airbnb.com/

[5] "iBilik - Find Room For Rent - Homestay For Rent in Malaysia," *www.ibilik.my*. https://www.ibilik.my/

[6] M. Martin, "Prototyping Model in Software Engineering: Methodology, Process, Approach," *Guru99.com*, Oct. 24, 2019. https://www.guru99.com/software-engineering-prototyping-model.html

Appendix A: Current Manual Application Form and Rental Quotation for Accommodation

PRP/BSP/001-Pind2

BORANG PERMOHONAN SEWAAN PENGINAPAN DI KOLEJ KEDIAMAN
PUSAT PERUMAHAN PELAJAR

SYARAT-SYARAT PERMOHONAN

1. Pemohon adalah bertanggungjawab terhadap bilangan hari yang dimohon setelah kelulusan diberikan. **Tiada urusan pemulangan bayaran** akan dilaksanakan sekiranya pemohon **tinggal kurang bilangan hari menginap dari tarikh yang dipohon/tidak menginap langsung/melakukan pembayaran tanpa mendapat kelulusan** dan **lain-lain perkara yang melibatkan pemulangan yuran sewaan**. Pemohon juga dibenarkan untuk membuat semakan kekosongan dengan Pegawai Pelulus di Kolej Kediaman yang dipohon
2. Pemohon adalah bertanggungjawab terhadap maklumat yang diberikan dalam borang ini. Kegagalan mengisi maklumat dengan betul membenarkan pihak kami mengambil tindakan sewajarnya berdasarkan peraturan berkuatkuasa.
3. Pemohon dimestikan untuk mengisi **e-mail sokongan Kolej Kediaman yang betul** sebagaimana tertera dan sekiranya tiada respon dari Pegawai Pelulus (Kolej Kediaman Dipohon) dalam tempoh 2 hari selepas permohonan dibuat, sila hubungi nombor tertera untuk tujuan pengesahan status sewaan.
4. Permohonan perlu dilaksanakan dalam **tempoh 14 hari dari tarikh menginap.**
5. Tempoh maklumbalas yang akan diberikan kepada pemohon adalah dalam jangkamasa **tujuh (7) hari bekerja.**
6. Bagi pemohonan dari kalangan **pelajar UTHM (Memiliki Kad Matriks Aktif), caj sewaan akan terus dikreditkan ke akaun pelajar** oleh **Unit Aset, Operasi dan Kemudahan, Pusat Perumahan Pelajar.**
7. **Bagi pemohon (Penyewa Luar)**, pembayaran boleh dilaksanakan melalui **inbois/Pesanan Tempatan (LO) (sila hubungi Pusat Perumahan Pelajar di talian 07-4537562 bagi pengeluaran inbois)** atau secara ***Electronic Fund Transfer (EFT)* No. Akaun (UTHM) 0107-0000001-716 (Bank Muamalat)**. Sila catatkan **"Sewaan Asrama H74205"** di bahagian ***reference***. Sila bawa resit bayaran bersama dengan borang kelulusan permohonan ketika proses pengambilan kunci.
8. Pemohon adalah tertakluk kepada **Buku Panduan Kolej Kediaman** dan **Dasar Perumahan Pelajar UTHM.**
9. Jadual harga sewaan adalah sebagaimana berikut. Sila Tandakan (√)

BIL	KATEGORI	PAKEJ I (TANPA BANTAL, SARUNG BANTAL & CADAR)				PAKEJ II (DENGAN BANAL, SARUNG BANTAL & CADAR)	
		KAMPUS PT. RAJA		KAMPUS PAGOH		KAMPUS PT. RAJA & PAGOH	
1.	PELAJAR SEKOLAH	5.50		6.50		10.00	
2.	PELAJAR UTHM	5.50		6.50		10.00	
3.	PELAJAR IPTA/IPTS	8.00		8.00		10.00	
4.	PROGRAM ANJURAN UTHM	8.00		8.00		10.00	
5.	PROGRAM ANJURAN SEKTOR KERAJAAN	10.00		10.00		15.00	
6.	PROGRAM ANJURAN SEKTOR SWASTA	10.00		10.00		15.00	
7.	PROGRAM LUAR NEGARA/PELAJAR ANTARABANGSA	15.00		17.00		20.00	

1

PRP/BSP/001-Pind2

BORANG PERMOHONAN SEWAAN PENGINAPAN DI KOLEJ KEDIAMAN
PUSAT PERUMAHAN PELAJAR

	KKDK PT. RAJA	KKK PAGOH	KKLK PT. RAJA
LOKASI SEWAAN :	kkdkpr@uthm.edu.my 011-37735453 Pn. Yazilah Yazir	pentadbirankkp3@gmail.com 019-7917721 En. Khairul Akmal	izat@uthm.edu.my 017-7575287 En. Izat Sani

A. MAKLUMAT PEMOHON

NAMA :
IC : NO. MATRIKS :
ORGANISASI :
NO. TELEFON : EMAIL :
TUJUAN SEWAAN :
TARIKH MULA : TARIKH TAMAT :
BIL. PESERTA : JANTINA : LELAKI : PEREMPUAN :

SAYA DENGAN INI MENGESAHKAN SEGALA MAKLUMAT YANG DIBERIKAN ADALAH BENAR.

.....
TANDATANGAN PEMOHON
TARIKH :

B. KELULUSAN PEGAWAI PENYELARAS KOLEJ KEDIAMAN

PERMOHANAN : **DILULUSKAN** ☐
: **TIDAK DILULUSKAN (NYATAKAN SEBAB)** ☐
CATATAN :
JUMLAH CAJ :
NO. BILIK :

.....
PEG. PENYELARAS KOLEJ KEDIAMAN

.....
TARIKH

2

UTHM.PRP.100-40/3 Jld. 20 (51)

SEBUTHARGA SEWAAN PENGINAPAN *Lampiran A*

Program : LAWATAN PELAJAR DAN PEGAWAI PENGIRING DARIPADA UNIMAS BAGI PROGRAM VORTEX
Nama : Timbalan Dekan (HEP & Alumni, FSKTM, UTHM
Lokasi Penginapan : Kolej Kediaman Dalam Kampus Universiti Tun Hussein Onn Malaysia
Kategori : Pelajar IPTA/IPTS (Pakej 1)

Tarikh Daftar	Tarikh Keluar	Perkara	Jumlah Peserta	Kadar Sewaan (RM/Hari)		Jumlah Hari		Jumlah (RM)
27/10/2024	28/10/2024	Pelajar IPTA/IPTS	25	MYR	8.00	1	MYR	200.00
		Jumlah Bayaran (RM)					MYR	200.00

Ringgit Malaysia : *DUA RATUS SAHAJA*

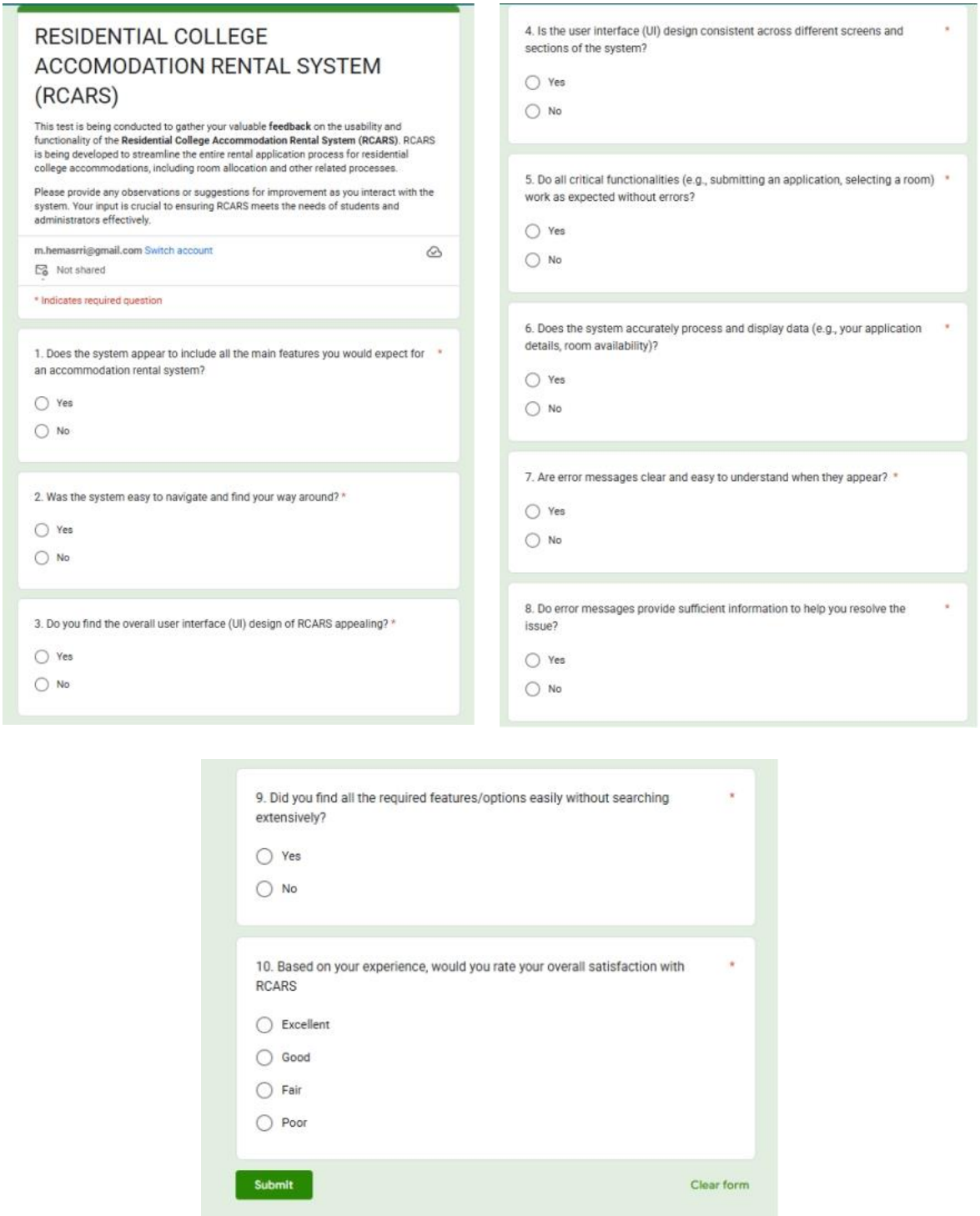
Catatan :

1. Bayaran hendaklah dibuat kepada akaun sebagaimana berikut :
   - Nama Akaun : **Universiti Tun Hussein Onn Malaysia**
   - No. Akaun : **0107-0000001-716**
   - Nama Akaun Bank : **Bank Muamalat Malaysia Berhad**
   - Kod Tabung : **H 74205 (Sewaan Asrama) (Rujukan/*Reference*)**
2. Bukti dokumen pembayaran hendaklah diserahkan ke pejabat Pusat Perumahan Pelajar atau emailkan kepada sewaanprp@gmail.com untuk tujuan pengesahan dan rekod.

Dikeluarkan oleh :

Unit Aset, Operasi & Kemudahan
Pusat Perumahan Pelajar (PRP)
Universiti Tun Hussein Onn Malaysia

Appendix B: User Acceptance Test Questions



RESIDENTIAL COLLEGE ACCOMODATION RENTAL SYSTEM (RCARS)

This test is being conducted to gather your valuable **feedback** on the usability and functionality of the **Residential College Accommodation Rental System (RCARS)**. RCARS is being developed to streamline the entire rental application process for residential college accommodations, including room allocation and other related processes.

Please provide any observations or suggestions for improvement as you interact with the system. Your input is crucial to ensuring RCARS meets the needs of students and administrators effectively.

m.hemasrri@gmail.com Switch account

Not shared

* Indicates required question

1. Does the system appear to include all the main features you would expect for an accommodation rental system? *
- Yes
- No

2. Was the system easy to navigate and find your way around? *
- Yes
- No

3. Do you find the overall user interface (UI) design of RCARS appealing? *
- Yes
- No

4. Is the user interface (UI) design consistent across different screens and sections of the system? *
- Yes
- No

5. Do all critical functionalities (e.g., submitting an application, selecting a room) work as expected without errors? *
- Yes
- No

6. Does the system accurately process and display data (e.g., your application details, room availability)? *
- Yes
- No

7. Are error messages clear and easy to understand when they appear? *
- Yes
- No

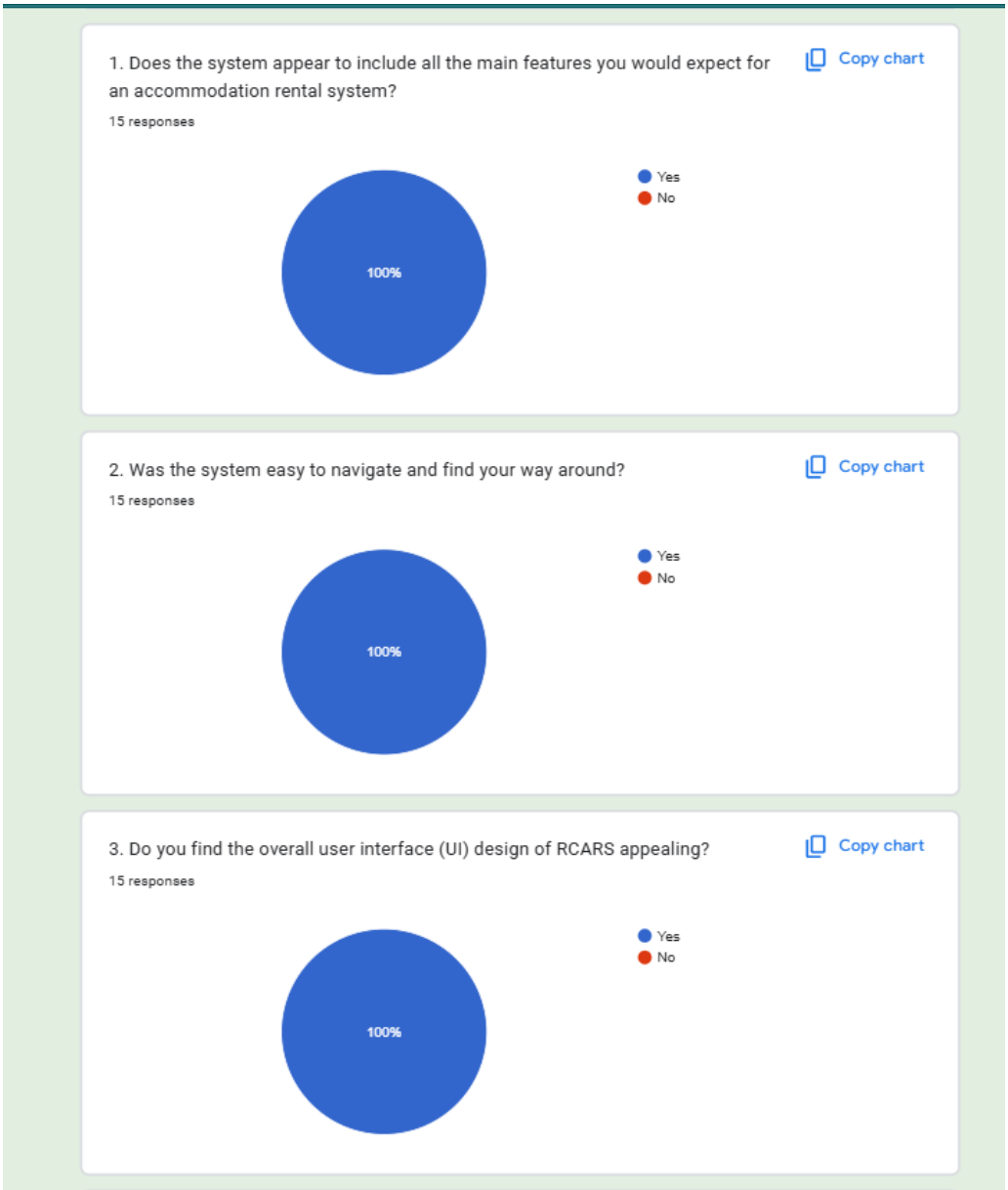
8. Do error messages provide sufficient information to help you resolve the issue? *
- Yes
- No

9. Did you find all the required features/options easily without searching extensively? *
- Yes
- No

10. Based on your experience, would you rate your overall satisfaction with RCARS *
- Excellent
- Good
- Fair
- Poor

Submit Clear form

Appendix C: User Acceptance Test Results

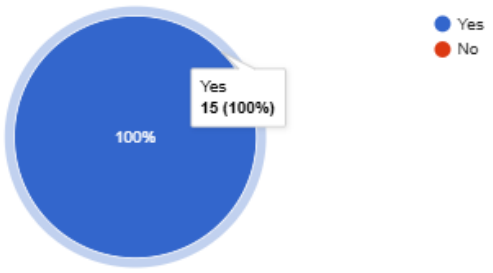


Applied Information Technology and Computer Science Vol. 6 No. 2 (2025) p. 1231-1248

4. Is the user interface (UI) design consistent across different screens and sections of the system?

Copy chart

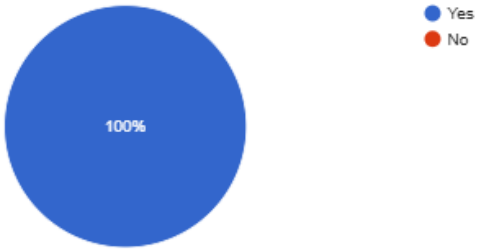
15 responses



5. Do all critical functionalities (e.g., submitting an application, selecting a room) work as expected without errors?

Copy chart

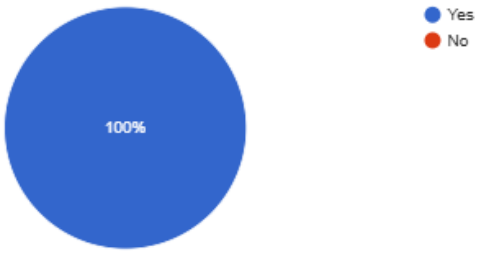
15 responses



6. Does the system accurately process and display data (e.g., your application details, room availability)?

Copy chart

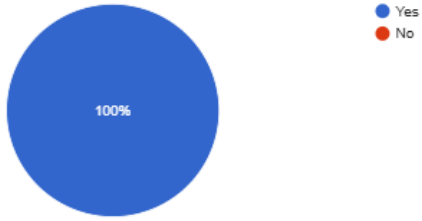
15 responses



7. Are error messages clear and easy to understand when they appear?

Copy chart

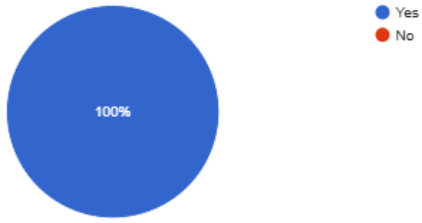
15 responses



8. Do error messages provide sufficient information to help you resolve the issue?

Copy chart

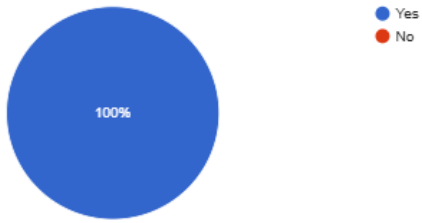
15 responses



9. Did you find all the required features/options easily without searching extensively?

Copy chart

15 responses



10. Based on your experience, would you rate your overall satisfaction with RCARS

Copy chart

15 responses