International Student Rental System

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Abstract

Many students hope to have more private space, but the University dormitory can not meet their requirement, therefor they need to find the house outside the university, but their is no solution which can help those students. Therefore, this project will provide a solution to create a website for students to rent and also for owner to rent their house. This project will design a account where owner can give advertisement for their empty house. It also create an account where students can check and apply for renting the house. Moreover, it has also the admin account, which can management all the rental agreement and processing. This project will be develop by using the software VUE and NodeJS.It's open to anyone who needs it, but it's aimed at college students and landlords who have extra houses to rent near their campuses.This project will also ensure that only the verified student will make and account on this website by using

their university siswa email ID. This project will help college students who need torent a house near their school and landlords who need to rent a house near their school provide them with an online platform,students in need can freely choose their favorite house on it.

Introduction

Evidence from several countries (Rugg et al., 2002; Charbonneau et al., 2006) indicates that during the last two decades higher education students have gradually become a highly influential player in the private rental sector (PRS). This phenomenon results from the rapid growth in the number of higher education students and from the immigration of students at both the national and the international level. [1]Affordable rental housing stock is in short supply not just off campus but on campus as well. There is currently little published data or literature on the housing experiences of postsecondary student youth in small- and medium-sized cities, and much less on the barriers and challenges they face in finding affordable housing (Charbonneau, Johnson, and Audrey 2006; cmhc2009a). This study addresses this gap by evaluating the rental housing experiences and coping strategies of postsecondary students attending the University of British Columbia Okanagan (ubco) campus, located in the interior of the province.[2] The key trust of national plans and agenda under the National Mission 2006-2020 is to "raise the capacity for knowledge and innovation to nurture more first-class mentality". In line with this National Mission, the ministry of higher education has planned a vision moving towards "turning Malaysia into Center of Excellence for Higher Education". This would gear Malaysia to develop intellectual environment that encourages the growth

of premier knowledge centres and individuals that are competent and innovative to meet current global needs. In order to achieve this mission, Malaysian government has embarked on the transformation on building and developing more higher education institutions (MOHE, 2007). Thus, the rapid development in higher education sector has resulted in the increasing number of students. The rising numbers of students in higher education sector will give impact to the development of local property. It is because, student enrolment excess of accommodation offered by the university. Students have to look for their own accommodation and rely on privately provided units outside the campus. Due to the3 need of student's accommodations, the rental demand for local housing market increase. Students have to allocate certain amount for rental expenses. At this point, the question raise is how many percent students have to allocate the rental expenses from the financial support? [3] So many students hope to have more private space, but the University dormitory can not meet their requirement, therefor they need to find the house outside the university, but their is no solution which can help those students. Therefore, this project will create website for students to rent and also for owner to rent their house.

Research Methodology

Algorithm refers to the accurate and complete description of the solution scheme, is a series of clear instructions to solve the problem, and the algorithm represents the strategy mechanism to describe the solution of the problem in a systematic way. In other words, the required output can be obtained in a limited time for the input of a certain specification. If an algorithm is flawed or inappropriate for a problem, executing the algorithm will not solve the problem. Different algorithms may use different time, space, or efficiency to accomplish the same task. The advantages and disadvantages of an algorithm can be measured by space complexity and time complexity

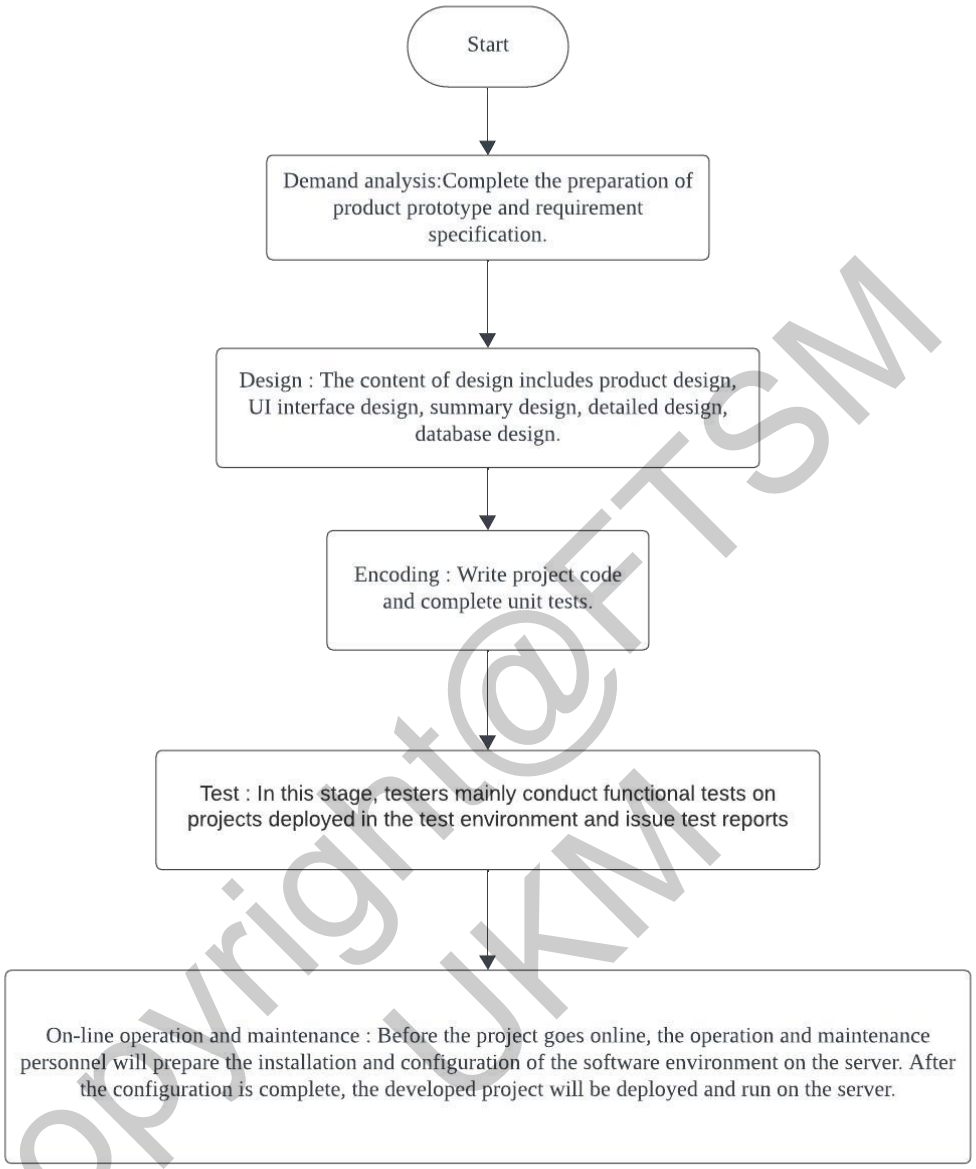

Figure 1 : Development System Flow Chart

The website provides an online platform to make the rental process easier and faster. Students can browse multiple listings through an app or website, screen homes that match their needs, and book or sign online.

- The website takes into account the special needs of students, such as the availability of nearby schools, reasonable rental pricing, short-term rental options, etc., to better fit students' lifestyles and budgets.

- Students can use the website to get detailed information about the property, such as photos, facilities, reviews, etc., to help make a more informed decision. In addition, some systems may provide renter reviews or recommendations, adding credibility to the listing information. 34
- Students can manage leases, repairs and communication with landlords/tenants through the website.

a. This website will be design to access all the population

b. This website will consider the nearest location from the University

c. This website will select the target user group is college students

d. This website will choose to develop with VUE+NodeJS

Result and discussion

1. Login page

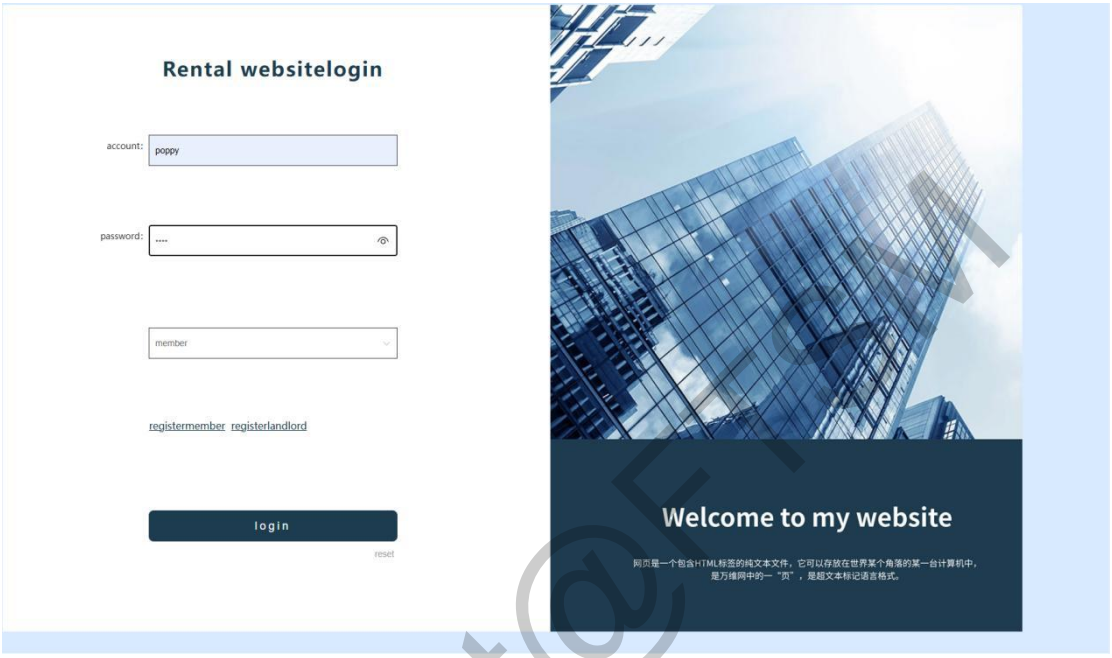

Figure 1 : Login Page

This image is login interface, where the user can insert their username and password to log in.

2. Rental Detail Page

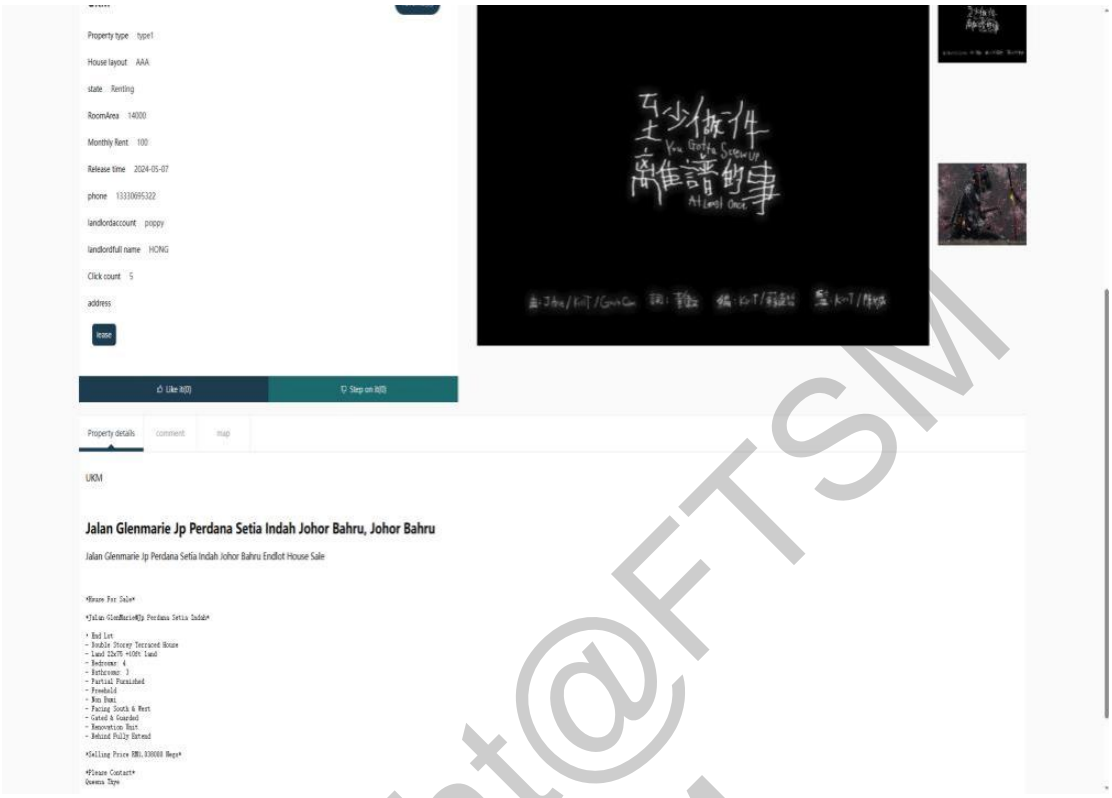

Figure 2 : Rental Detail Page

This page is a page that shows the details of the house, where the user can view the details of the house.

3. Home Page

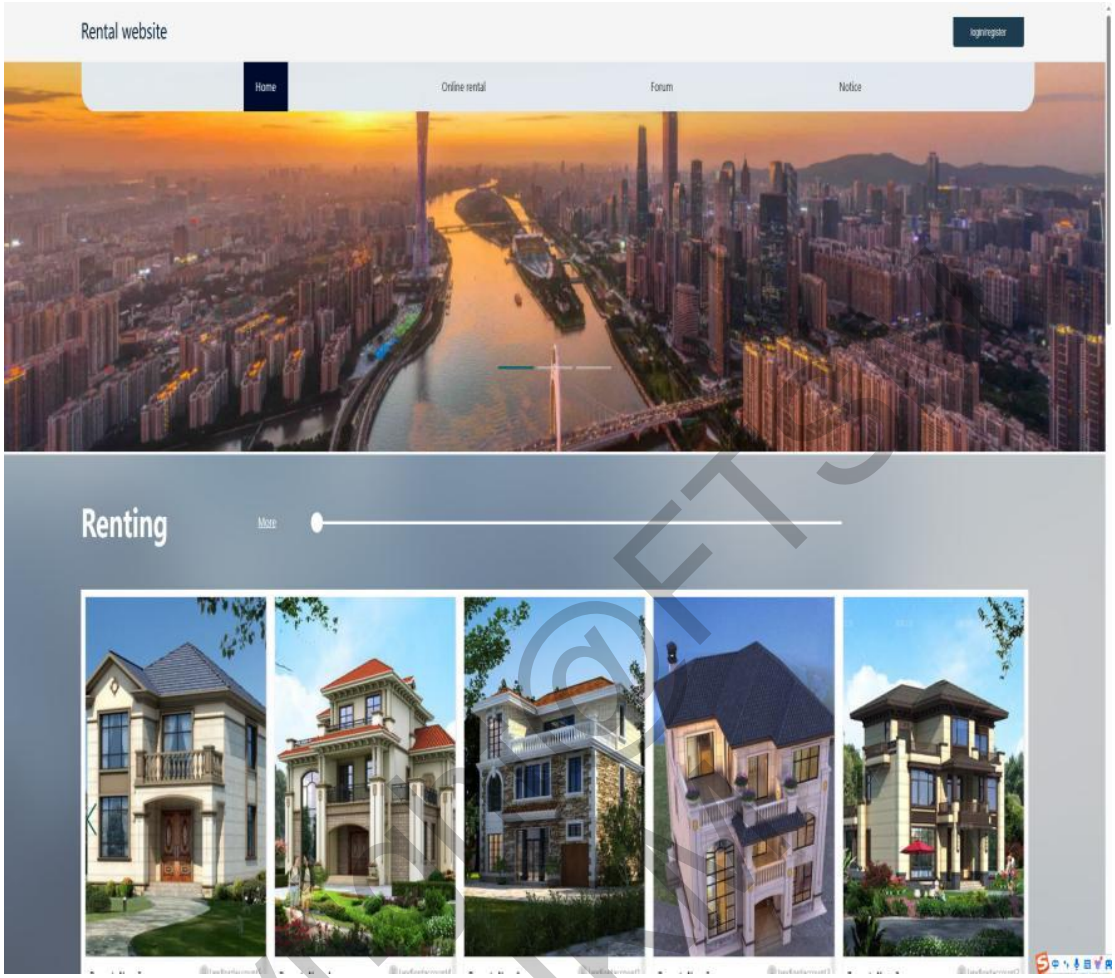

Figure 3 : Home Page

This page shows the home page of the site, which you can see when you enter the site, and in this page shows the houses for rent, as well as the forums and bulletin boards

4.User Management Page

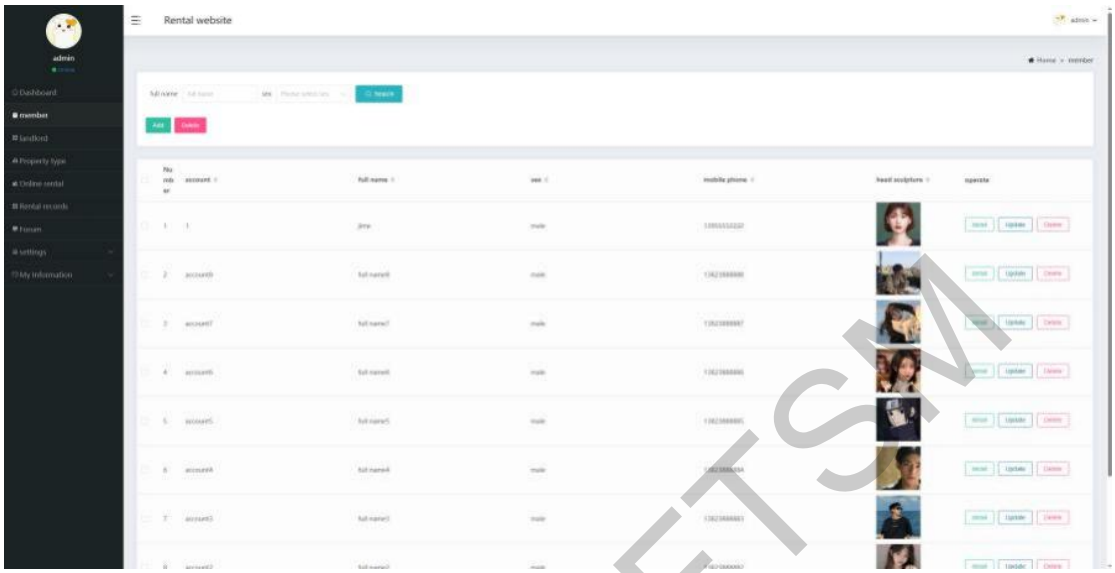

Figure 4 : User Management Page

This page can be added, deleted and modified by users, as well as the view of user details, easy management

Usability Testing is a method of evaluating the usability of a software product or system by observing the interaction between real users and the system, identifying and solving the problems encountered by users during use, in order to improve the user experience and satisfaction of the product.

ID	Question	Description	Score
U001	Is it easy to navigate?	Whether the operating system is easy for users to use each part of the	90/100

		function?	
U002	Whether these features are easy to use and understand	Whether the viewing and publishing of housing information is convenient for users to use	85/100
U003	Whether the system effectively provides help to users	Whether the user effectively provides help when encountering difficulties	85/100
U004	Is it appropriate in the user interface	This includes the aesthetic aspects of the system, such as typography, layout, color, etc	80/100
U005	Whether the system is efficient and responsive	Includes the response speed of the system, such as page jump, user login speed, etc	90/100

Table 1 : Usability Testing

Conclusion

After a thorough examination and testing of the International Student Rental System, we can conclude that the system performs well on every important parameter. The system worked successfully as expected. Provide users with the tools they need to effectively find a rental. While it performed well in tests, there's always room for improvement. User feedback and continuous testing should be used in the future to meet the necessary functional requirements detailed in the requirements testing phase, to ensure that the development of key functions such as house information creation, editing, saving and sharing solves any problems, enhances the system functionality and continuously improves the user experience.

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