TUNKU ABDUL RAHMAN UNIVERSITY OF MANAGEMENT & TECHNOLOGY

FACULTY OF COMPUTING AND INFORMATION TECHNOLOGY

(Bachelor of Information Technology (Honours)

in Software Systems Development (RSD)

(G3)

Assignment

BAIT2073 Mobile Application Development

Title:Life After Dorm
（Dorm 2 Home）

No	Name	ID
1	LEE WENG YI	23WMR09332
2	CHOO SHI YI	23WMR09309
3	BOK CHEONG ROY	23WMR09298
4	PUA JIA QIAN	23WMR09358

Appendix A

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Tunku Abdul Rahman University of Management and Technology

Coursework Declaration

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Academic Session : 202401

Course Code & Title : BAIT2073 Mobile Application Development

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Declaration

</div>

I/We confirm that I/we have read and shall comply with all the terms and conditions of TAR University Management and Technology's plagiarism policy.

I/We declare that this assignment is free from all forms of plagiarism and for all intents and purposes is my/our own properly derived work.

No	Name	ID	Signature
1	LEE WENG YI	23WMR09332	
2	CHOO SHI YI	23WMR09309	
3	BOK CHEONG ROY	23WMR09298	
4	PUA JIA QIAN	23WMR09358	

Date: 17/5/2024

Introduction

Dorm 2 Home is a mobile application designed to ease the transition from dorm life to independent living for recent graduates, offering a comprehensive platform for navigating housing options, budgeting for rent, and finding compatible roommates. By providing a user-friendly interface and customizable search filters, the app simplifies the process of finding accommodation tailored to each user's budget and preferences, whether it's a shared house, or private room. With features like budgeting tools and roommate matching algorithms, Dorm 2 Home empowers graduates to make informed decisions about their living arrangements, while also facilitating seamless sharing and networking opportunities to connect users with potential roommates or tenants. Whether users are searching for a place to live or looking to rent out their own property, Dorm 2 Home offers a one-stop solution to address the challenges of post-graduation housing with convenience and confidence.

Tunku Abdul Rahman University of Management and Technology

BAIT2073 Mobile Application Development

Task Description

Name   :Lee Weng Yi   ID   :2309332

Programme   :RSD   Group :3

Instruction: Answer **ALL** the questions. You may insert extra pages.

1. Please briefly describe the module(s)/function(s) you engaged in the assignment.

    The module I am in charge of is displaying the list of available rental rooms and finding roommates posted in the home page. From the home page, the user can use the search bar to search and filter functions for users to filter the type of room, date available for rent, duration of renting, budget of rent per month, amenity and nearby facilities. Users can view the rental details of each available rental room in the list, it will have a button to share to find a roommate, save the rental room, contact the owner, and rent the room. For the owner , the button for share, contact, and rent is not shown. For the share process, it will need the user to enter a title and description to post for finding a roommate. For the contact process, it will redirect to the chatroom with the owner. For the rent process, users are able to choose cash , credit card or debit card to pay for the deposit. After successfully paying for the deposit, a rent confirmation email will be sent to the owner and tenant. Moreover, the user is able to view the find roommate post details in the roommate list, the user is able to contact the post owner and also view the rental room details.

2. What are the strengths of the modules/functions created by you?

    Firstly, one of the strengths for my module is the search function. It observed every change in the search bar and directly affected the result in the list. It is able to search for the name, type of rental room, and location. The filter function for the rental list is able to filter the type of room, date available for rent, duration of renting, budget of pay rent per month, amenity and nearby facilities. Other than that, all the input fields in the payment process have the validation to ensure the user enters correct information and cannot be

empty, such as name, email format, phone number format, card number length. It will display the confirmation information for the user to confirm all the information is correct then process for rent. The user and the rental owner is able to receive an email to know that it is successfully rented. Moreover, the button share, contact and rent of the rental room details, it will check the logged in user. If the user logged in as the owner, the button will not show for the owner, it is only shown for the other user, the owner is able to view who has rented the room and the total count of the rent for the room. The button rent will change to sold out if it is not available to rent.

3. What are the weaknesses of the modules/functions created by you?

The weakness for the payment module is having limited payment methods for the deposit rental. The system only allows cash, credit card or debit card. This module can be more user-friendly by implementing e-wallet or Paypal as payment methods on top of it. The user will have more payment options for their rental, with e-wallets being the most popular choice nowadays

4. What have you learned in doing this assignment?
I learnt to pay attention to user-friendly elements of design involving clear navigation, efficient search and filter options, and straightforward contact forms. I used scrolling and improved data loading techniques to keep performance continuous even as the dataset increased. I learnt to implement complete validation for inputs, ensuring that any issues are identified and clearly noted to users. I also learnt that it is important to implement notification to notify the owner and tenant of any changes in their account such as the rental room has been successfully rented.

5. What are the challenges, if any, faced by you while working on this assignment?
My challenges were obtaining data, fragment communication, and mobile application user interface design. Managing data proceeding between different fragments, which included utilizing a common ViewModel and LiveData, was difficult but necessary for effective communication and UI changes. It was difficult to modularize user interface components to ensure seamless interaction and consistency, especially when developing a home page with a search bar and view pager. Designing a filter button that opens a dialogFragment and transmits criteria to a list fragment needs the use of interfaces and common ViewModels to function well. Handling a single list fragment in multiple states required a flexible design and dynamic changes to the recycler view adapter.

Signature: _luy_   Date:17/5/2024

Task Description

Name   :Choo Shi Yi   ID   :2309309

Programme   :RSD   Group :3

Instruction: Answer **ALL** the questions. You may insert extra pages.

1. Please briefly describe the module(s)/function(s) you engaged in the assignment.

    The module I was involved in focused on the user profile. It loads user information, such as the user name and profile picture, on the profile page. Within this module, users can perform several functions. First, they can view their information in the Account & Security section. Additionally, users can edit their personal information, including name, email, phone number, profile picture, and password. Users also have the ability to change the language based on their preferences, with options for English, Chinese, and Malay. Furthermore, I developed the About page to display the app's terms and conditions. From the profile page, users can delete their accounts, which makes it impossible to log in with that email again. There is also a sign-out button that users can click to sign out of their account. Lastly, I was involved in the forgot password module, where users need to enter their registered email to reset their password. A new reset password is sent to their email, allowing them to log in again.

2. What are the strengths of the modules/functions created by you?

    The modules and functions I created exhibit several strengths. They provide comprehensive user profile management features, including viewing and editing personal information and changing passwords, ensuring users have significant control over their accounts. The password change feature requires users to enter their current password before setting a new one, enhancing account security. Additionally, the information fields have specific requirements to ensure data integrity. The inclusion of multilingual support (English, Chinese, and Malay) enhances accessibility and user experience for a diverse audience. Security is also a priority, with features like password change and a robust forgotten password mechanism protecting user accounts. The option to delete accounts empowers users with control over their data, aligning with

privacy standards. Additionally, user-friendly navigation and easy access to the terms and conditions through the About page increase transparency and build trust with users.

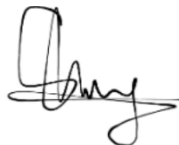3. What are the weaknesses of the modules/functions created by you?

   Despite their strengths, the modules and functions have some weaknesses. The language options are limited to English, Chinese, and Malay, which could be expanded to cater to a more global audience. Additionally, once an account is deleted, it cannot be recovered if the user accidentally deletes it, leading to permanent loss of data and user frustration. Another potential weakness is that while the password reset via email is generally secure, it could be considered less secure compared to more modern methods like two-factor authentication, potentially exposing users to email-based phishing attacks.

4. What have you learned in doing this assignment?
   Through this assignment, I learned the importance of user-centric design and the need to build features that cater to user needs and preferences, such as multilingual support and easy profile management. Implementing secure methods for handling personal information and passwords emphasized the importance of data security and privacy. I also learned about the complexities of account management and the necessity of balancing functionality with usability to ensure the app remains easy to use while incorporating multiple features.

5. What are the challenges, if any, faced by you while working on this assignment?
   I faced several challenges while working on this assignment. One significant challenge was ensuring that users reliably received emails, especially for account verification and password reset, as issues with email deliverability can prevent users from accessing their accounts. Additionally, maintaining a consistent layout proved difficult when modifying the app to support different languages, as text length and direction can vary significantly, affecting the overall user interface and experience. These challenges required thorough testing and adjustments to ensure functionality and a seamless user experience.

Signature: Date:17/5/2024

BAIT2073 Mobile Application Development

<u>**Task Description**</u>

Name   :Bok Cheong Roy   ID:2309398

Programme   :RSD   Group :3

Instruction: Answer **ALL** the questions. You may insert extra pages.

1. Please briefly describe the module(s)/function(s) you engaged in the assignment.

   In this assignment, I engaged in developing the login, registration, my post, and my rent modules. The login module ensures that only registered users can log into their accounts, enhancing security. The registration module prevents duplicate registrations by disallowing the same email to register again. It requires users to create a password based on specific patterns and enter their full name, birthday, IC number, and phone number, with all fields validated to ensure data accuracy. The my rent module displays rooms that the user has rented, along with the rental period, providing a clear overview of their rental history. My post module is divided into two parts: posting rooms and posting for looking for a roommate. It shows the user's posts with their statuses, such as available or rented, and includes options for editing and deleting posts, allowing users to manage their listings efficiently.

2. What are the strengths of the modules/functions created by you?

   The modules and functions I created exhibit several strengths. The login and registration modules have robust security features, such as preventing duplicate registrations and enforcing strong password patterns, ensuring that user accounts are secure. The validation of all registration fields ensures data accuracy and completeness, which is crucial for maintaining a reliable user database. The my rent module provides users with a clear and organized view of their rental history, which is useful for managing their accommodations. The my post module offers comprehensive post management, allowing users to edit and delete their posts, which enhances usability and ensures that their listings are up-to-date. Overall, these modules provide essential functionalities that enhance the user experience and ensure security and reliability.

3. What are the weaknesses of the modules/functions created by you?

   Despite their strengths, the modules and functions have some weaknesses. The login and registration processes could benefit from additional security measures, such as

two-factor authentication, to further protect user accounts. The registration module's reliance on specific patterns for password creation, while enhancing security, could be cumbersome for some users and lead to frustration. The my rent module, while informative, could be enhanced by providing more detailed information about each rental, such as payment history or rental agreements. The my post module, although comprehensive, might be improved by adding features like post scheduling or more detailed status updates to provide users with better control over their listings.

4. What have you learned in doing this assignment?

Through this assignment, I learned the importance of creating secure and user-friendly modules. I gained insights into the necessity of robust validation processes to ensure data integrity and the value of user-centric design in enhancing the user experience. Implementing features like post management and rental history tracking taught me how to balance functionality with usability. I also learned about the complexities involved in developing secure login and registration processes, emphasizing the need for continuous improvement and adaptation to emerging security challenges.

5. What are the challenges, if any, faced by you while working on this assignment?

I faced several challenges while working on this assignment. Ensuring that users reliably received emails for account verification and password resets was a significant challenge, as issues with email deliverability could prevent users from accessing their accounts. Additionally, maintaining a consistent and user-friendly layout while supporting multiple functionalities proved difficult, requiring thorough testing and adjustments. Another challenge was ensuring robust validation for all registration fields, which required careful consideration of various edge cases to prevent errors and ensure data accuracy. These challenges required detailed planning, extensive testing, and iterative improvements to overcome.

Roy

Signature: Date:17/5/2024

Task Description

Name : Pua Jia Qian   ID : 23WMR09358

Programme : RSD   Group : 3

Instruction: Answer **ALL** the questions. You may insert extra pages.

1. Please briefly describe the module(s)/function(s) you engaged in the assignment.

   The modules I engaged in the assignment are the Property Owner Create Rent module and the Chat module. Property Owner Create Rent module is used to create a rent by uploading the image of room, select rent type, enter rent title, select duration of contract, select the starting date that allows for rental, enter the amount of rental, select quantity of available rent, enter location, select amenity, select nearby facilities and enter any other description of the rental. In addition, the Chat module enables tenants to communicate with house owners in real-time. It will display a list of chat rooms about the logged in users.The receiver of a message can view the timestamp of when the message was sent and check its read status. When the receiver reads the message and responds, the sender is notified of the new message from the house owner.

2. What are the strengths of the modules/functions created by you?

   The modules I created provide some strengths. The Property Owner Create Rent module allows owners to upload photos from their own gallery or take a picture using their phone's camera.The option to take a picture using the phone's camera adds another layer of convenience. Owners can quickly capture and upload photos directly from their property without needing to transfer images from other devices. Before creating a rent, it will ask a confirmation dialog for users to check whether it is confirmed to create a rent or not. If a user creates the rent successfully, it will show a successful message to the user. The confirmation dialog is a strong feature as it helps prevent accidental submissions. Users are prompted to review and confirm the details before creating a listing, reducing errors and enhancing the accuracy of the listings. It also provides a success message upon successful creation of a rent ensures that users receive immediate feedback, which can be reassuring and improve user satisfaction. The Chat module consists of message seen status that allows tenants to see whether

their message has been seen by the house owner adds a layer of transparency and reassurance. It lets tenants know that their inquiries are being acknowledged.The notification system that alerts tenants when they receive a new message from the house owner enhances the responsiveness of the communication. This ensures that tenants do not miss important updates and can respond promptly.

3. What are the weaknesses of the modules/functions created by you?

The weakness of the Property Owner Create Rent module is that it is not allowed for them to upload multiple photos at the same time so that it is limited for tenants to look for more further information about the rent. Multiple photos can showcase different aspects and angles of the property, such as various rooms, outdoor spaces, and amenities, giving tenants a better understanding of what the rental offers. Moreover, the weakness of the Chat module is that logged in users cannot see the last message from other people, it is required to click the chat room to know. The inability to see the last message from other users without entering the chat room means users must click into each chat individually to check for updates. This can be time-consuming and inconvenient, especially if the user has multiple active chats.

4. What have you learned in doing this assignment?

I have learned the importance of creating user-friendly interfaces that facilitate seamless interactions, such as real-time communication and detailed data input processes. I gained practical experience in handling image uploads from photo galleries and taking a picture using a camera, implementing confirmation dialogs, and providing real-time messaging features with read receipts and timestamps. Additionally, I deepened my understanding of Kotlin's syntax and Android Studio's tools for building efficient, responsive, and interactive mobile applications. This experience has enhanced my ability to design and develop robust modules that meet user needs effectively.

5. What are the challenges, if any, faced by you while working on this assignment?

While working on this assignment, one of the challenges I faced was creating a chat room for the sender and receiver in real time data synchronization.Designing an intuitive and responsive chat interface that updates dynamically with new messages, displays timestamps, and shows read receipts without lag can be challenging. Furthermore, implementing a reliable notification system to alert users of new messages even when the app is running in the background or is closed involves dealing with Android's notification services and ensuring timely and accurate delivery.

Signature: Date: 17/5/2024

Appendix C

Appendix C - Peer Evaluation Form

Tunku Abdul Rahman University of Management and Technology
BAIT2073 Mobile Application Development

Name	Lee Weng Yi
ID	2309332
Programme	RSD
Group	3

Write the name of each of your group members in a separate column. The following is a list of statements to be answered and each of your group members. Think carefully about assigning rating values for each of the statements.

Rating scale: 5-Strongly Agree, 4-Agree, 3-Neutral, 2-Disagree, 1/0-Strongly Disagree

No	Criteria	Group Member 1 Name Pua Jia Qian	Group Member 2 Name Choo Shi Yi	Group Member 3 Name Bok Cheong Roy
1	Participation: Actively contributed to discussions, brainstormed ideas, and completed their assigned tasks on time.	5	5	5
2	Communication: Clearly communicated ideas, listened actively to others, and offered constructive feedback.	5	5	5
3	Collaboration: Worked effectively with others, was willing to compromise, and respected different perspectives.	5	5	5
4	Problem-Solving: Helped identify and analyze problems, proposed solutions, and actively worked to resolve challenges.	5	5	5
5	Attitude: Showed enthusiasm, a positive attitude, and was supportive of teammates.	5	5	5
	Total	**25**	**25**	**25**

Comment:

Teammates are giving a good commitment and collaboration during the assignment discussion and development.

Appendix C - Peer Evaluation Form

Tunku Abdul Rahman University of Management and Technology
BAIT2073 Mobile Application Development

Name	Choo Shi Yi
ID	2309309
Programme	RSD
Group	3

Write the name of each of your group members in a separate column. The following is a list of statements to be answered and each of your group members. Think carefully about assigning rating values for each of the statements.

Rating scale: 5-Strongly Agree, 4-Agree, 3-Neutral, 2-Disagree, 1/0-Strongly Disagree

No	Criteria	Group Member 1 Name **Bok Cheong Roy**	Group Member 2 Name **Lee Weng Yi**	Group Member 3 Name **Pua Jia Qian**
1	Participation: Actively contributed to discussions, brainstormed ideas, and completed their assigned tasks on time.	5	5	5
2	Communication: Clearly communicated ideas, listened actively to others, and offered constructive feedback.	5	5	5
3	Collaboration: Worked effectively with others, was willing to compromise, and respected different perspectives.	5	5	5
4	Problem-Solving: Helped identify and analyze problems, proposed solutions, and actively worked to resolve challenges.	5	5	5
5	Attitude: Showed enthusiasm, a positive attitude, and was supportive of teammates.	5	5	5
	Total	**25**	**25**	**25**

Comment:

My group members are good and giving collaboration during the work.

Appendix C - Peer Evaluation Form

Tunku Abdul Rahman University of Management and Technology
BAIT2073 Mobile Application Development

Name	Bok Cheong Roy
ID	23309298
Programme	RSD
Group	3

Write the name of each of your group members in a separate column. The following is a list of statements to be answered and each of your group members. Think carefully about assigning rating values for each of the statements.

Rating scale: 5-Strongly Agree, 4-Agree, 3-Neutral, 2-Disagree, 1/0-Strongly Disagree

No	Criteria	Group Member 1 Name Choo Shi Yi	Group Member 2 Name Lee Weng Yi	Group Member 3 Name Pua Jia Qian
1	Participation: Actively contributed to discussions, brainstormed ideas, and completed their assigned tasks on time.	5	5	5
2	Communication: Clearly communicated ideas, listened actively to others, and offered constructive feedback.	5	5	5
3	Collaboration: Worked effectively with others, was willing to compromise, and respected different perspectives.	5	5	5
4	Problem-Solving: Helped identify and analyze problems, proposed solutions, and actively worked to resolve challenges.	5	5	5
5	Attitude: Showed enthusiasm, a positive attitude, and was supportive of teammates.	5	5	5
	Total	**25**	**25**	**25**

Comment:

Overall is good,my group members actively in discussion and provide a very good collaboration.

Appendix C - Peer Evaluation Form

Tunku Abdul Rahman University of Management and Technology
BAIT2073 Mobile Application Development

Name	Pua Jia Qian
ID	2309358
Programme	RSD
Group	3

Write the name of each of your group members in a separate column. The following is a list of statements to be answered and each of your group members. Think carefully about assigning rating values for each of the statements.

Rating scale: 5-Strongly Agree, 4-Agree, 3-Neutral, 2-Disagree, 1/0-Strongly Disagree

No	Criteria	Group Member 1 Name Lee Weng Yi	Group Member 2 Name Choo Shi Yi	Group Member 3 Name Bok Cheong Roy
1	Participation: Actively contributed to discussions, brainstormed ideas, and completed their assigned tasks on time.	5	5	5
2	Communication: Clearly communicated ideas, listened actively to others, and offered constructive feedback.	5	5	5
3	Collaboration: Worked effectively with others, was willing to compromise, and respected different perspectives.	5	5	5
4	Problem-Solving: Helped identify and analyze problems, proposed solutions, and actively worked to resolve challenges.	5	5	5
5	Attitude: Showed enthusiasm, a positive attitude, and was supportive of teammates.	5	5	5
	Total	**25**	**25**	**25**

Comment:

My group members are helpful and provide good collaboration during the app development

Appendix B - Assignment Evaluation

Tunku Abdul Rahman University of Management and Technology
BAIT2073 Mobile Application Development
Academic Session 202401

1. Fill in the title of your mobile app.

Title of Mobile Solution	

2. Fill in name, ID, programme code and group ID.

	Member 1	Member 2	Member 3	Member 4
Name	Lee Weng Yi	Choo Shi Yi	Bok Cheong Roy	Pua Jia Qian
ID	23WMR09332	23WMR09309	23WMR09298	23WMR09358
Programme (E.g. REI)	RSD	RSD	RSD	RSD
Group (E.g. G1)	G3	G3	G3	G3
Score (leave it blank)				

3. Fill in name of tutor and data of submission

Name of tutor	Mr. Peh Guan Soon
Date	17/05/2024

Appendix B - Assignment Evaluation

BAIT2073 Mobile Application Development

Name	Lee Weng Yi
ID	23WMR09332
Programme	RSD
Group	G3

A. Development of a mobile solution (80%)

No	Criteria	Developing 0 - 5 marks	Approaching 6 - 10 marks	Ideal 10 - 15 marks	Excellent 16 - 20 marks	Score (80%)	Remark
1	Quantity of work	About 20% or less of the proposed module has been completed. Completed modules lack substantial content or effort. Completed modules are none essential parts of the mobile app, i.e. About Us, Help File, Splash Screen, etc.	At least 50% of the proposed module have been completed but content may be lacking or effort may appear minimal. The completed module is an essential part of the mobile app, i.e. Login, Registration, Home Page, etc.	About 80% of the proposed module are completed with a good amount of content and effort. Modules are essential component of the mobile app, i.e. searching, transaction-related modules and etc.	All proposed modules are completed with comprehensive content and thorough effort. Modules are essential component of the mobile app, i.e. searching, transaction-related modules and etc.		
2	Quality of work	About 20% or less of modules are working. Code is poorly structured, inefficient, and may not follow best practices. Applications have major bugs that hinder functionality or usability. No input validation.	About 50% of the proposed modules are functional. Code may have some structural issues or inefficiencies. Applications may have bugs that impact functionality or usability. At least 50% of the input validation is implemented.	About 80% of the proposed modules are functional. Code is mostly well-structured and functional, with occasional minor bugs. Applications are generally user-friendly, but may have minor usability issues. Input validation is well implemented.	All completed modules are functional. Code is well-structured, efficient, and follows best practices. Application is user-friendly, and free of major bugs. Input validation is well implemented.		
3	Data management	Data is not stored insecurely or accessed incorrectly, potentially compromising application functionality or security. Application does not store or retrieve data.	Data is stored or retrieved using appropriate data saving method, but may have some security vulnerabilities or inefficiencies. Applications demonstrate proper data handling practices.	Data is mostly secure and accessed correctly, but there may be room for improvement in efficiency. Applications demonstrate proper data handling practices. Suitable local and remote data saving methods are implemented.	Data is stored securely, efficiently, and accessed appropriately. Applications demonstrate proper data handling practices. Suitable local and remote data saving methods are implemented.		
4	Originality and understanding	Application lacks originality and demonstrates a weak understanding of concepts. Student may not understand key concepts or demonstrate a lack of effort in understanding them. Student does not apply any modern mobile application development methods/models.	Application shows limited originality and understanding of concepts. Student may show some understanding of key concepts, but understanding may be incomplete. Student may applies modern mobile application development methods/models, but may have some minor errors.	Application shows some originality and understanding of concepts. Student demonstrates a good understanding of most concepts. Student applies some modern mobile application development methods/models.	Application demonstrates innovative and creative solutions to problems. Student demonstrates a deep understanding of the concepts involved in mobile application development. Student applies modern mobile application development methods/models.		

B. Quality of presentation and teamwork (20%)

No	Criteria	Developing 0 - 1 marks	Approaching 2 - 3 marks	Ideal 3 - 4 marks	Excellent 5 marks	Score (20%)	Remark
1	Quality of solution	The solution demonstrates a weak understanding of the problem and offers an ineffective or incomplete approach.	The solution demonstrates a basic understanding of the problem but may lack effectiveness or have significant shortcomings.	The solution demonstrates a good understanding of the problem and offers a mostly effective approach. It may have minor shortcomings or lack some details.	The solution demonstrates a deep understanding of the problem and offers an innovative and effective approach. It is well-developed, comprehensive, and addresses all aspects of the assignment.		
2	Quality of presentation	The presentation is unclear, disorganized, and fails to effectively communicate the solution. Major components are not presented. It may lack visuals or storytelling techniques.	The presentation may have some clarity or organization issues, and may not effectively engage the audience. Major components are presented, but missing a few parts. Visuals and storytelling may be lacking.	The presentation is mostly clear and organized but may lack some elements of engagement or clarity. Most of the components are presented, with some minor errors. Visuals and storytelling may be adequate.	The presentation is clear, concise, engaging, and well-organized. All components are presented. It effectively communicates the solution and highlights key points using visuals and storytelling techniques.		
3	Completeness	The project is significantly incomplete and may lack crucial components or fail to meet most criteria. Deliverables are submitted on time, but incomplete. OR No submission. The project description, methods used, personal contributions, and learning experiences gained are not documented.	The project is partially complete and may be missing significant components or not meet several criteria. Some deliverables are submitted on time, with two or more missing items. The project description, methods used, personal contributions, and learning experiences gained are documented, but lacks of detail.	The project is mostly complete, but may lack some minor components or not fully meet all criteria. All deliverables are submitted on time, with one or two missing items. The project description, methods used, personal contributions, and learning experiences gained are mostly documented.	The project is complete, includes all required components, and meets all specified criteria. All deliverables are submitted on time. The project description, methods used, personal contributions, and learning experiences gained are clearly documented.		
4	Teamwork	The student experiences significant difficulties with collaboration or communication, hindering his/her ability to work together effectively. There may be evidence of conflict or lack of participation from the student.	The student may have some issues with collaboration or communication, leading to challenges in managing conflict, delegating tasks, or achieving common goals.	The student demonstrates good collaboration and communication skills. The student is able to manage conflict and delegate tasks, but there may be occasional issues with teamwork or communication.	The student demonstrates excellent collaboration, communication, and problem-solving skills. The student effectively manage conflict, delegate tasks, and work together to achieve common goals.		
				Total		**0**	

Comment:

BAIT2073 Mobile Application Development

Name	Choo Shi Yi
ID	23WMR09309
Programme	RSD
Group	G3

A. Development of a mobile solution (80%)

No	Criteria	Developing 0 - 5 marks	Approaching 6 - 10 marks	Ideal 10 - 15 marks	Excellent 16 - 20 marks	Score (80%)	Remark
1	Quantity of work	About 20% or less of the proposed module has been completed. Completed modules lack substantial content or effort. Completed modules are none essential parts of the mobile app, i.e. About Us, Help File, Splash Screen, etc.	At least 50% of the proposed module have been completed but content may be lacking or effort may appear minimal. The completed module is an essential part of the mobile app, i.e. Login, Registration, Home Page, etc.	About 80% of the proposed module are completed with a good amount of content and effort. Modules are essential component of the mobile app, i.e. searching, transaction-related modules and etc.	All proposed modules are completed with comprehensive content and thorough effort. Modules are essential component of the mobile app, i.e. searching, transaction-related modules and etc.		
2	Quality of work	About 20% or less of modules are working. Code is poorly structured, inefficient, and may not follow best practices. Applications have major bugs that hinder functionality or usability. No input validation.	About 50% of the proposed modules are functional. Code may have some structural issues or inefficiencies. Applications may have bugs that impact functionality or usability. At least 50% of the input validation is implemented.	About 80% of the proposed modules are functional. Code is mostly well-structured and functional, with occasional minor bugs. Applications are generally user-friendly, but may have minor usability issues. Input validation is well implemented.	All completed modules are functional. Code is well-structured, efficient, and follows best practices. Application is user-friendly, and free of major bugs. Input validation is well implemented.		
3	Data management	Data is not stored insecurely or accessed incorrectly, potentially compromising application functionality or security. Application does not store or retrieve data.	Data is stored or retrieved using appropriate data saving method, but may have some security vulnerabilities or inefficiencies. Applications demonstrate proper data handling practices.	Data is mostly secure and accessed correctly, but there may be room for improvement in efficiency. Applications demonstrate proper data handling practices. Suitable local and remote data saving methods are implemented.	Data is stored securely, efficiently, and accessed appropriately. Applications demonstrate proper data handling practices. Suitable local and remote data saving methods are implemented.		
4	Originality and understanding	Application lacks originality and demonstrates a weak understanding of concepts. Student may not understand key concepts or demonstrate a lack of effort in understanding them. Student does not apply any modern mobile application development methods/models.	Application shows limited originality and understanding of concepts. Student may show some understanding of key concepts, but understanding may be incomplete. Student may applies modern mobile application development methods/models, but may have some minor errors.	Application shows some originality and understanding of concepts. Student demonstrates a good understanding of most concepts. Student applies some modern mobile application development methods/models.	Application demonstrates innovative and creative solutions to problems. Student demonstrates a deep understanding of the concepts involved in mobile application development. Student applies modern mobile application development methods/models.		

B. Quality of presentation and teamwork (20%)

No	Criteria	Developing 0 - 1 marks	Approaching 2 - 3 marks	Ideal 3 - 4 marks	Excellent 5 marks	Score (20%)	Remark
1	Quality of solution	The solution demonstrates a weak understanding of the problem and offers an ineffective or incomplete approach.	The solution demonstrates a basic understanding of the problem but may lack effectiveness or have significant shortcomings.	The solution demonstrates a good understanding of the problem and offers a mostly effective approach. It may have minor shortcomings or lack some details.	The solution demonstrates a deep understanding of the problem and offers an innovative and effective approach. It is well-developed, comprehensive, and addresses all aspects of the assignment.		
2	Quality of presentation	The presentation is unclear, disorganized, and fails to effectively communicate the solution. Major components are not presented. It may lack visuals or storytelling techniques.	The presentation may have some clarity or organization issues, and may not effectively engage the audience. Major components are presented, but missing a few parts. Visuals and storytelling may be lacking.	The presentation is mostly clear and organized but may lack some elements of engagement or clarity. Most of the components are presented, with some minor errors. Visuals and storytelling may be adequate.	The presentation is clear, concise, engaging, and well-organized. All components are presented. It effectively communicates the solution and highlights key points using visuals and storytelling techniques.		
3	Completeness	The project is significantly incomplete and may lack crucial components or fail to meet most criteria. Deliverables are submitted on time, but incomplete. OR No submission. The project description, methods used, personal contributions, and learning experiences gained are not documented.	The project is partially complete and may be missing significant components or not meet several criteria. Some deliverables are submitted on time, with two or more missing items. The project description, methods used, personal contributions, and learning experiences gained are documented, but lacks of detail.	The project is mostly complete, but may lack some minor components or not fully meet all criteria. All deliverables are submitted on time, with one or two missing items. The project description, methods used, personal contributions, and learning experiences gained are mostly documented.	The project is complete, includes all required components, and meets all specified criteria. All deliverables are submitted on time. The project description, methods used, personal contributions, and learning experiences gained are clearly documented.		
4	Teamwork	The student experiences significant difficulties with collaboration or communication, hindering his/her ability to work together effectively. There may be evidence of conflict or lack of participation from the student.	The student may have some issues with collaboration or communication, leading to challenges in managing conflict, delegating tasks, or achieving common goals.	The student demonstrates good collaboration and communication skills. The student is able to manage conflict and delegate tasks, but there may be occasional issues with teamwork or communication.	The student demonstrates excellent collaboration, communication, and problem-solving skills. The student effectively manage conflict, delegate tasks, and work together to achieve common goals.		
				Total		0	

Comment:

Appendix B - Assignment Evaluation

BAIT2073 Mobile Application Development

Name	Bok Cheong Roy
ID	23WMR09298
Programme	RSD
Group	G3

A. Development of a mobile solution (80%)

No	Criteria	Developing 0 - 5 marks	Approaching 6 - 10 marks	Ideal 10 - 15 marks	Excellent 16 - 20 marks	Score (80%)	Remark
1	Quantity of work	About 20% or less of the proposed module has been completed. Completed modules lack substantial content or effort. Completed modules are none essential parts of the mobile app, i.e. About Us, Help File, Splash Screen, etc.	At least 50% of the proposed module have been completed but content may be lacking or effort may appear minimal. The completed module is an essential part of the mobile app, i.e. Login, Registration, Home Page, etc.	About 80% of the proposed module are completed with a good amount of content and effort. Modules are essential component of the mobile app, i.e. searching, transaction-related modules and etc.	All proposed modules are completed with comprehensive content and thorough effort. Modules are essential component of the mobile app, i.e. searching, transaction-related modules and etc.		
2	Quality of work	About 20% or less of modules are working. Code is poorly structured, inefficient, and may not follow best practices. Applications have major bugs that hinder functionality or usability. No input validation.	About 50% of the proposed modules are functional. Code may have some structural issues or inefficiencies. Applications may have bugs that impact functionality or usability. At least 50% of the input validation is implemented.	About 80% of the proposed modules are functional. Code is mostly well-structured and functional, with occasional minor bugs. Applications are generally user-friendly, but may have minor usability issues. Input validation is well implemented.	All completed modules are functional. Code is well-structured, efficient, and follows best practices. Application is user-friendly, and free of major bugs. Input validation is well implemented.		
3	Data management	Data is not stored insecurely or accessed incorrectly, potentially compromising application functionality or security. Application does not store or retrieve data.	Data is stored or retrieved using appropriate data saving method, but may have some security vulnerabilities or inefficiencies. Applications demonstrate proper data handling practices.	Data is mostly secure and accessed correctly, but there may be room for improvement in efficiency. Applications demonstrate proper data handling practices. Suitable local and remote data saving methods are implemented.	Data is stored securely, efficiently, and accessed appropriately. Applications demonstrate proper data handling practices. Suitable local and remote data saving methods are implemented.		
4	Originality and understanding	Application lacks originality and demonstrates a weak understanding of concepts. Student may not understand key concepts or demonstrate a lack of effort in understanding them. Student does not apply any modern mobile application development methods/models.	Application shows limited originality and understanding of concepts. Student may show some understanding of key concepts, but understanding may be incomplete. Student may applies modern mobile application development methods/models, but may have some minor errors.	Application shows some originality and understanding of concepts. Student demonstrates a good understanding of most concepts. Student applies some modern mobile application development methods/models.	Application demonstrates innovative and creative solutions to problems. Student demonstrates a deep understanding of the concepts involved in mobile application development. Student applies modern mobile application development methods/models.		

B. Quality of presentation and teamwork (20%)

No	Criteria	Developing 0 - 1 marks	Approaching 2 - 3 marks	Ideal 3 - 4 marks	Excellent 5 marks	Score (20%)	Remark
1	Quality of solution	The solution demonstrates a weak understanding of the problem and offers an ineffective or incomplete approach.	The solution demonstrates a basic understanding of the problem but may lack effectiveness or have significant shortcomings.	The solution demonstrates a good understanding of the problem and offers a mostly effective approach. It may have minor shortcomings or lack some details.	The solution demonstrates a deep understanding of the problem and offers an innovative and effective approach. It is well-developed, comprehensive, and addresses all aspects of the assignment.		
2	Quality of presentation	The presentation is unclear, disorganized, and fails to effectively communicate the solution. Major components are not presented. It may lack visuals or storytelling techniques.	The presentation may have some clarity or organization issues, and may not effectively engage the audience. Major components are presented, but missing a few parts. Visuals and storytelling may be lacking.	The presentation is mostly clear and organized but may lack some elements of engagement or clarity. Most of the components are presented, with some minor errors. Visuals and storytelling may be adequate.	The presentation is clear, concise, engaging, and well-organized. All components are presented. It effectively communicates the solution and highlights key points using visuals and storytelling techniques.		
3	Completeness	The project is significantly incomplete and may lack crucial components or fail to meet most criteria. Deliverables are submitted on time, but incomplete. OR No submission. The project description, methods used, personal contributions, and learning experiences gained are not documented.	The project is partially complete and may be missing significant components or not meet several criteria. Some deliverables are submitted on time, with two or more missing items. The project description, methods used, personal contributions, and learning experiences gained are documented, but lacks of detail.	The project is mostly complete, but may lack some minor components or not fully meet all criteria. All deliverables are submitted on time, with one or two missing items. The project description, methods used, personal contributions, and learning experiences gained are mostly documented.	The project is complete, includes all required components, and meets all specified criteria. All deliverables are submitted on time. The project description, methods used, personal contributions, and learning experiences gained are clearly documented.		
4	Teamwork	The student experiences significant difficulties with collaboration or communication, hindering his/her ability to work together effectively. There may be evidence of conflict or lack of participation from the student.	The student may have some issues with collaboration or communication, leading to challenges in managing conflict, delegating tasks, or achieving common goals.	The student demonstrates good collaboration and communication skills. The student is able to manage conflict and delegate tasks, but there may be occasional issues with teamwork or communication.	The student demonstrates excellent collaboration, communication, and problem-solving skills. The student effectively manage conflict, delegate tasks, and work together to achieve common goals.		
				Total		0	

Comment:

Appendix B - Assignment Evaluation

BAIT2073 Mobile Application Development

Name	Pua Jia Qian
ID	23WMR09358
Programme	RSD
Group	G3

A. Development of a mobile solution (80%)

No	Criteria	Developing 0 - 5 marks	Approaching 6 - 10 marks	Ideal 10 - 15 marks	Excellent 16 - 20 marks	Score (80%)	Remark
1	Quantity of work	About 20% or less of the proposed module has been completed. Completed modules lack substantial content or effort. Completed modules are none essential parts of the mobile app, i.e. About Us, Help File, Splash Screen, etc.	At least 50% of the proposed module have been completed but content may be lacking or effort may appear minimal. The completed module is an essential part of the mobile app, i.e. Login, Registration, Home Page, etc.	About 80% of the proposed module are completed with a good amount of content and effort. Modules are essential component of the mobile app, i.e. searching, transaction-related modules and etc.	All proposed modules are completed with comprehensive content and thorough effort. Modules are essential component of the mobile app, i.e. searching, transaction-related modules and etc.		
2	Quality of work	About 20% or less of modules are working. Code is poorly structured, inefficient, and may not follow best practices. Applications have major bugs that hinder functionality or usability. No input validation.	About 50% of the proposed modules are functional. Code may have some structural issues or inefficiencies. Applications may have bugs that impact functionality or usability. At least 50% of the input validation is implemented.	About 80% of the proposed modules are functional. Code is mostly well-structured and functional, with occasional minor bugs. Applications are generally user-friendly, but may have minor usability issues. Input validation is well implemented.	All completed modules are functional. Code is well-structured, efficient, and follows best practices. Application is user-friendly, and free of major bugs. Input validation is well implemented.		
3	Data management	Data is not stored insecurely or accessed incorrectly, potentially compromising application functionality or security. Application does not store or retrieve data.	Data is stored or retrieved using appropriate data saving method, but may have some security vulnerabilities or inefficiencies. Applications demonstrate proper data handling practices.	Data is mostly secure and accessed correctly, but there may be room for improvement in efficiency. Applications demonstrate proper data handling practices. Suitable local and remote data saving methods are implemented.	Data is stored securely, efficiently, and accessed appropriately. Applications demonstrate proper data handling practices. Suitable local and remote data saving methods are implemented.		
4	Originality and understanding	Application lacks originality and demonstrates a weak understanding of concepts. Student may not understand key concepts or demonstrate a lack of effort in understanding them. Student does not apply any modern mobile application development methods/models.	Application shows limited originality and understanding of concepts. Student may show some understanding of key concepts, but understanding may be incomplete. Student may applies modern mobile application development methods/models, but may have some minor errors.	Application shows some originality and understanding of concepts. Student demonstrates a good understanding of most concepts. Student applies some modern mobile application development methods/models.	Application demonstrates innovative and creative solutions to problems. Student demonstrates a deep understanding of the concepts involved in mobile application development. Student applies modern mobile application development methods/models.		

B. Quality of presentation and teamwork (20%)

No	Criteria	Developing 0 - 1 marks	Approaching 2 - 3 marks	Ideal 3 - 4 marks	Excellent 5 marks	Score (20%)	Remark
1	Quality of solution	The solution demonstrates a weak understanding of the problem and offers an ineffective or incomplete approach.	The solution demonstrates a basic understanding of the problem but may lack effectiveness or have significant shortcomings.	The solution demonstrates a good understanding of the problem and offers a mostly effective approach. It may have minor shortcomings or lack some details.	The solution demonstrates a deep understanding of the problem and offers an innovative and effective approach. It is well-developed, comprehensive, and addresses all aspects of the assignment.		
2	Quality of presentation	The presentation is unclear, disorganized, and fails to effectively communicate the solution. Major components are not presented. It may lack visuals or storytelling techniques.	The presentation may have some clarity or organization issues, and may not effectively engage the audience. Major components are presented, but missing a few parts. Visuals and storytelling may be lacking.	The presentation is mostly clear and organized but may lack some elements of engagement or clarity. Most of the components are presented, with some minor errors. Visuals and storytelling may be adequate.	The presentation is clear, concise, engaging, and well-organized. All components are presented. It effectively communicates the solution and highlights key points using visuals and storytelling techniques.		
3	Completeness	The project is significantly incomplete and may lack crucial components or fail to meet most criteria. Deliverables are submitted on time, but incomplete. OR No submission. The project description, methods used, personal contributions, and learning experiences gained are not documented.	The project is partially complete and may be missing significant components or not meet several criteria. Some deliverables are submitted on time, with two or more missing items. The project description, methods used, personal contributions, and learning experiences gained are documented, but lacks of detail.	The project is mostly complete, but may lack some minor components or not fully meet all criteria. All deliverables are submitted on time, with one or two missing items. The project description, methods used, personal contributions, and learning experiences gained are mostly documented.	The project is complete, includes all required components, and meets all specified criteria. All deliverables are submitted on time. The project description, methods used, personal contributions, and learning experiences gained are clearly documented.		
4	Teamwork	The student experiences significant difficulties with collaboration or communication, hindering his/her ability to work together effectively. There may be evidence of conflict or lack of participation from the student.	The student may have some issues with collaboration or communication, leading to challenges in managing conflict, delegating tasks, or achieving common goals.	The student demonstrates good collaboration and communication skills. The student is able to manage conflict and delegate tasks, but there may be occasional issues with teamwork or communication.	The student demonstrates excellent collaboration, communication, and problem-solving skills. The student effectively manage conflict, delegate tasks, and work together to achieve common goals.		
				Total		0	

Comment: