Residence for Daffodillian

 \mathbf{BY}

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project titled "Residence for Daffodillian", submitted by MD. Mohiuddin Sosem and Maisha Tahsin Sharita to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on April 2021.

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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Mr. Ahmed Al Marouf, Senior Lecturer, Department of CSE** at Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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ABSTRACT

The report presents the development of Residence For Daffodillian. The primary goal of our Residence For Daffodillian application is to provide different Residence to the students of our university. This project deals with to find different types of hostels near the campus. Recently, it has become a popular trend for an increasing amount of people to find hostel online. It is very convenient and suitable for people's fast-paced lifestyle nowadays. In order to develop our regular lifestyle, we must try new things. Our application for Residence for Daffodillian is design and developed by Implemented with Android Studio. This is a project with the objective to develop a basic android application where a consumer can get different types of rooms in the application and also to know about the technologies used to develop such an application. This document will discuss each of the underlying technologies to create and implement our online hostel finding application.

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CHAPTER 1

Introduction

1.1 Introduction

In our current era of automated systems with it being either software or hardware, it's not advisable to be using manual system. Hostels without a management system are usually done manually. Registration forms verification to other data saving processes are done manually and most at times, they are written on paper. Thus, a lot of repetitions can be avoided with an automated system. The drawbacks of existing systems lead to the design of an android system that will help reduce a lot of manual inputs. With this system in place, we can improve the efficiency of the system, thus overcome the drawbacks of the existing manual system. This system is designed in favor of the hostel management which helps them to save the records of the students about their rooms and other things This system gives an idea about how a student and fee details, room allocation, mess expenditure is maintained in a better way. The hostel management system will also contain special features like how many students are in a room, student's id and free rooms or space available. The administration has a unique identity for each member as well as student's details.

1.2 Motivation

This is an online deal portal where system owner(admin) can upload his rooms with information and pictures. And the customer or user can contact with the admin who post the room. User can book new hostel rooms from the application. The system provides students accommodation to the hostel more efficiently. This project also keeps details of the hostellers and applied students. It is headed by Warden. He will be the administrator. This document is intended to minimize human works and make hostel allocation an easier job for students and hostel authorities by providing online application for hostel, automatically select the students from the waiting list and mess calculation, complaint registration, notice board etc. etc. Hostellers can view notice board, hostel fee and mess menu by login into the online system.

1.3 Objectives

- To maintain and manage the hostel information easily.
- To avoid the complexity and to reduce time in data processing.
- To provide data access through the users and students according to their roles and levels.
- To reduce material related cost
- Indicate the room availability and the location of the rooms
- If the visitor is satisfied with the room location, then confirm the booking
- For error free, effective and easy for database related works
- For secure and smooth running of the program
- To increase efficiency of students
- To save time

1.4 Expected Outcome

- It will track all the facilities, rooms, students etc
- Will manage the information of room, student, hostel
- Shows the information and description of the hostel, bed
- Keeps all the records of student registration
- Editing, adding and updating of records are get improved

1.5 Report Layout

In this chapter 1, I have discussed about my project introduction. I discussed about my project motivation, objective and fields of my work. In chapter 2, I will discuss about background. In chapter 3, I will discuss about requirement specification. In chapter 4, I will describe about design specification, chapter 5 contains implementation and testing. In chapter 6, I will describe about impact on society, environment and sustainability and finally conclusion and future scope will be discussed in chapter 7.

CHAPTER 2

BACKGROUND

2.1 Preliminaries/Terminologies

The goal of our Residence For Daffodillian application is to provide different Residence to the students of our university. This project deals with to find different types of hostels near the campus. Recently, it has become a popular trend for an increasing amount of people to find hostel online. Our application for Residence for Daffodillian is design and developed by Implemented with Android Studio. This is a project with the objective to develop a basic android application where a consumer can get different types of rooms in the application and also to know about the technologies used to develop such an application.

2.2 Related works

My intension was to do something for our varsity or our students. When I thought about our accommodation during our student life it reminds me about the hostel life. It was very tough to find hostel. So, I wanted to make our daily works easier. My application is fully Daffodil university focused a by this app I've tried to help the students of our university students to find hostel easily.

2.3 Comparative Studies

Before making this application, I was thinking about to do something for those students who come outside of Dhaka and faces a lot of problem for finding hostel. So, I thought to help them out through this app. Using this application they can easily find their suitable and comfortable place to stay during the hostel life.

2.4 Scope of the Problem

I worked on the application following the software development process. I went through each part completion the previous one. The application was planned for more then two week long to collect requirements and gather information extensively. This application planning and time management schedule given in next page.

2.4.1 Time Scheduling

Gantt Chart:

Task/Date	Start Date	End Date	Status	Feb	March	June	October	April
Proposal	25-02-2020	12-04-2021	Compete					
Requirements	28-02-2020	14-03-2020	Compete					
Design	20-03-2020	19-06-2020	Compete					
Implementation	21-06-2020	29-08-2020	Compete					
Testing	02-08-2020	30-10-2020	Compete					
Documentation	01-10-2020	12-04-2021	Compete					

Table 2.1: Time Scheduling

2.5 Challenges

Knowing the requirements of the students and teachers and making it real through an application was the toughest part of my project making period.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

Process to develop this application I had to design how I will approach towards my plan. First I have to create a flowchart, use case model and data flow diagram which will help us to execute the project step by step.

3.2 Requirement Collection and Analysis

Software Requirements To Develop this application I have used following Software Requirements:

• Operating System: Mobile Phone

System Design: Adobe XDLanguage: Java, XML

Language: Java, XMLDatabase: Firebase

• Tools: Android Studio

• Debugger: Android Dalvik Debug Monitor service

• Operating System: Android with API level 29 or higher

• Minimum Space to execute: 50MB

3.3 Use Case Modeling and Description

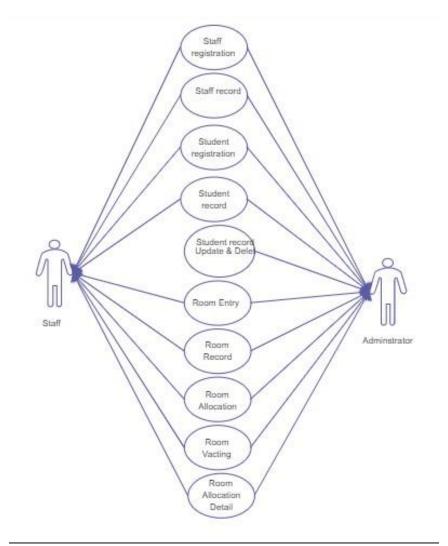


Figure 3.1: Use Case Diagram

Actor Perspective Use Case: Normal user (registration) Table 01: Use Case of normal user (Registration)

Use Case name:	Registration		
Scenario:	Registration system for norma	Registration system for normal user.	
Brief Description:	For using this system, a normal user has to register with valid email, phone number and other valid information. Without registration normal user would not be able to use this system.		
Actor:	Normal user		
Precondition:	Normal user must need to registration at first.		
Post Condition:	Normal user must be registered.		
Follow of Events	Normal user.	System	
	Normal user must register.	Ensure valid phone number. Ensure valid email address. Ensure correct address.	
Exception Condition	Without valid email and phone number a person could not register.		

Actor Perspective Use Case: Admin and registered user (Login) Table 02: Use Case of Admin and registered user (login)

Use Case Name:	Login			
Scenario:	Admin and registered user login system.			
Brief Description:	Admin and register user can login with va	lid email and password.		
Actor:	Admin and registered user.	Admin and registered user.		
Precondition:	For using the system Admin and registered user have to login first.			
Post Condition:	Without login Admin and registered user would not be able to access the			
	system.			
Flow of Events:	Admin and registered user	System		
	To login the system user has to input	Finalize valid user name.		
	valid user name and password.	Finalize the valid password.		
Exception	Without valid user name and password admin and user cannot login into			
Condition:	the system.			

Actor perspective Use Case: admin (Post rooms)

Table 03: use case of admin (post rooms)

Use Case Name:	Post rooms		
Scenario:	Post a room.		
Brief	admin can post their rooms with photos and description.		
Description:			
Actor:	admin.		
Precondition:	Write about the room.		
Post Condition:	Should add a picture with the room.		
Flow of Events:	admin Process		
	1. To post a room admin have to add	1. Ensure the correction.	
	a picture with the description.		
Exception	1. Without adding picture user cannot post room.		
Condition:		-	

Actor perspective Use Case: Register user (Message)

Table 05: Use Case of register user (Message)

Use Case Name	Message
Scenario	Register user can communication with admin by message
Actor	Register user
Pre-condition	Without login the system cannot send message
Post-condition	For communication with admin
Flow of events	After login user can send message
Exception condition	Register user can send message to admin

Actor perspective Use Case: Admin and users (View rooms)

Table 06: Use Case of admin and users (view rooms)

Use Case Name:	View rooms			
Scenario:	All kind of users can view all post	All kind of users can view all post		
Brief Description:	When register user and admin make a post each of user can see the post user can view the post			
Actor:	Admin and users			
Pre-Condition:	View the rooms post and learn it			
Flow of Events:	Admin and users System			
	Every user can view all post No need to login the system to view the post			
Exception Condition:	All user can view the rooms post			

Actor perspective Use Case: Admin and users (Search rooms)

Table 07: Use Case of Admin and users (search rooms)

Use Case Name:	Search rooms		
Scenario:	Everyone can search rooms what	they want	
Brief Description:	Admin and all kind of user can search their liked rooms just using by search box of the system		
Actor:	Admin and users		
Pre-Condition:	User can search the rooms by search box		
Flow of Events:	Admin and user	System	
	What kind of rooms you liked User can search by rooms name and type		
Exception Condition:	Without correct name would possible to find out rooms		

Actor perspective Use Case: admin (Delete rooms)

Table 08: Use Case of admin (Delete rooms)

Use Case Name:	Delete rooms
Scenario:	Only admin has right to delete rooms post
Actor:	Admin
Pre-Condition:	Without admin cannot delete any post
Post-Condition:	Admin can delete post of rooms
Flow of events:	Only default user who is admin can delete user post
Exception Condition:	User has no permission to delete rooms post

Actor perspective Use Case: Admin (Edit rooms)

Use Case Name	Edit rooms
Scenario	admin can edit their own post
Actor	Admin
Pre-condition	If needed any change in post user can edit
Post-condition	Every user can edit their own post
Flow of events	admin can edit their own post
Exception condition	Anyone cannot edit other one post

Table 09: Use Case of admin (Edit rooms)

Actor perspective Use Case: Admin and registered user (like and comment)

Use Case Name	Like and comment
Scenario	User and admin can like and modify posts.
Actor	Admin and registered user
Pre-condition	The user must be registered.
Post-condition	Admin and registered user must login first.
Flow of events	Admin and registered user can modify their own room posts.
Exception condition	If they do not login to the system, they would not be able to Post any room.

Table 10: Use Case of admin and registered user (like and comment)

Actor perspective Use Case: Admin and registered user (logout)

Table 11: Use Case of admin and registered user (logout)

Use Case Name	Logout
Scenario	User and admin must logout after finishing their work.
Actor	Admin and registered user
Pre-condition	The user and admin must login.
Post-condition	Admin and registered user must logout at last.
Flow of events	Admin and registered user should not leave the system without logout.
Exception condition	If they do not logout the system, they might face some Technical problems.

3.4 Activity Diagram

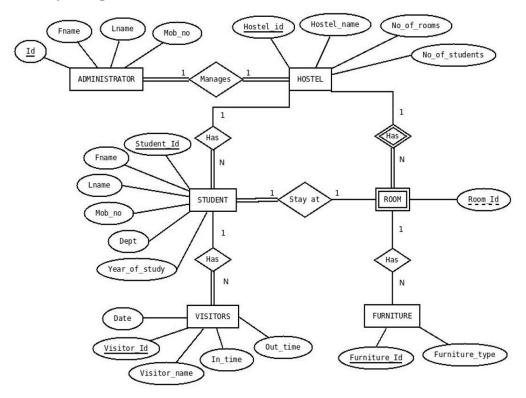


Figure 1.2: Activity Diagram

3.5 System Sequence Diagram

3.5.1 Actor Perspective Sequence Diagram (admin):

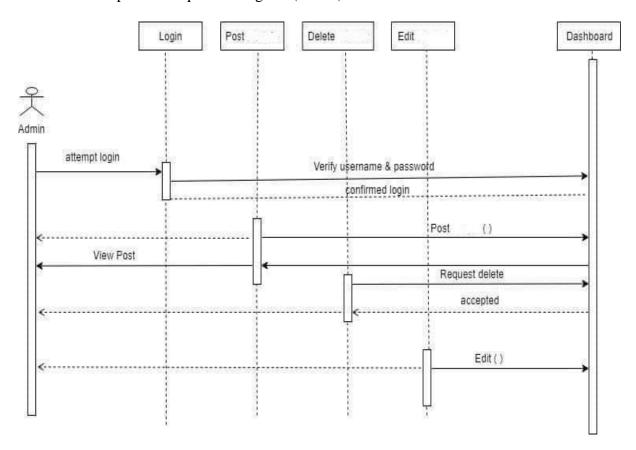


Figure 3.3: Sequence Diagram-(Admin)

3.5.2 Actor Perspective Sequence Diagram (Register user):

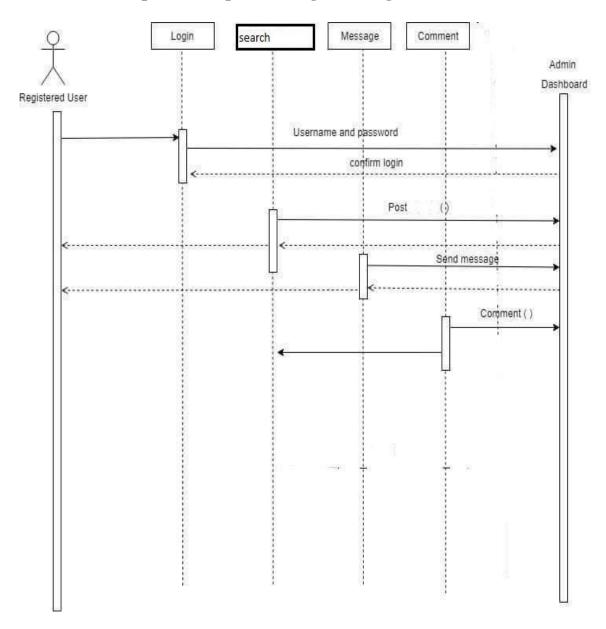


Figure 3.4: Sequence Diagram (register user)

3.5.3 Actor Perspective Sequence Diagram: (Normal user)

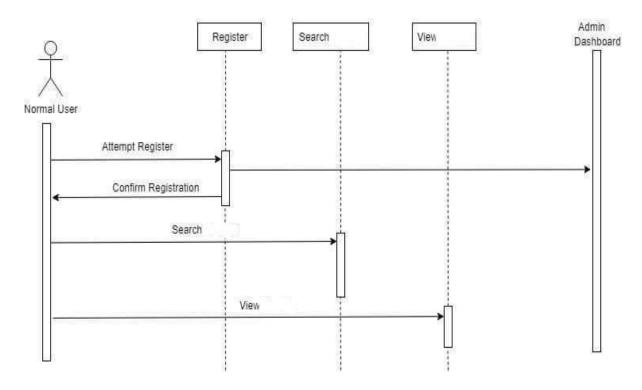


Figure 3.5: Sequence Diagram (Normal user)

Figure 3.6: Entity Relationship Diagram

3.6 Design Requirements

When designing systems or software, following issues must be considered that reproduce the overall design of the goals that the system expected to achieve. The following goals were kept in mind while designing the system. Make system simple and flexible to users. The system users are able to have a great amount of control over their propose in achieving objectives, Make the system compatible. It should be fit in the total system, future maintenance and enhancement must be less.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

Front-end Design is the main attraction of an application. It also should be user friendly. Our application we designed a beautiful front end design. We also tried to design user friendly. In front end design, my application belongs with below screens.

- Intro/ splash screen
- Login Screen
- Registration Screen
- Lost Password Screen
- Profile Screen
- Room Details Screen
- Apply for Room Screen
- Notice Board Screen
- Complain Screen
- Edit Profile Screen

4.2 Interaction Design and User Experience (UX)

Interaction Design is most important part of user Experience design. An application fruition depends on User satisfaction. How an application is more attractive to the user mostly depends on interaction and Design part. In my application, we used the useful model of interactive design.

4.3 Implementation Requirements

Implementation Requirement is given below:

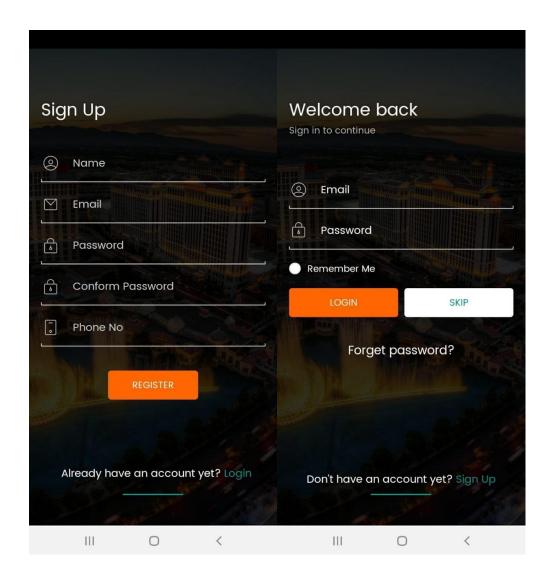
- 1) Android Studio
- 2) Java language knowledge
- 3) Knowledge on Android Ecosystem

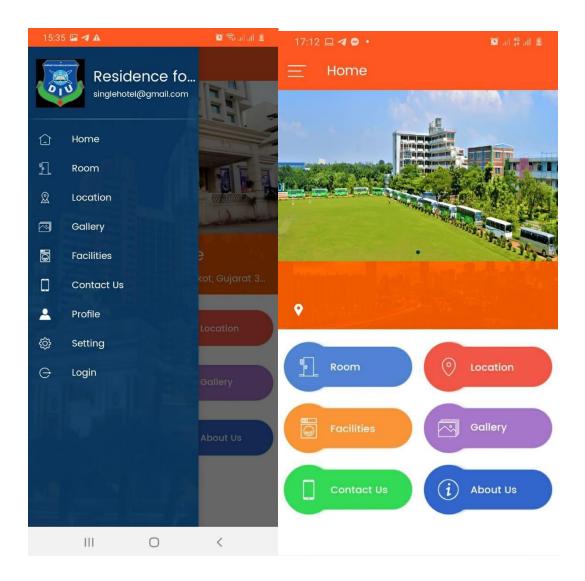
CHAPTER 5 IMPLEMENTATION AND TESTING

5.1 Implementation of Database

The implementation phase is where developer installs the Database Management System on the required hardware, optimize the database to run best on that hardware and software platform, create database and load data. The initial data could be either new data captured directly or existing data import from DBMS. Developer can establish database security and give access to authorized users. At this moment I used a Firebase database.

5.2 Implementation of Front-end Design





5.3 Implementation of Interactions

Implementation of interaction is most important part of a system. Interaction means when users on specific module and switch to another module. This application consists of one type of user at this moment so that is no chance to interrupt values. I tried to give users a good UX to make this project successful. An application would be successful when it's users will get this useful and will feel a good experience. From that point my expectation would be high.

5.4 Testing Implementation

When a system is implemented and test some specific method is called test implementation. I have tested system several times. Login, Register, Complain, Room Checking, Notice Board tests on several times. I have tested following factors:

- Login System
- Registration system
- Apply for Hostel
- Check Available Rooms

5.5 Test Result and Report

Test Cases Test Case: 01

Table 11: Test Case-01

Test Case #: 01	Test Case Name: Registration
System: Residence for Daffodillian	Subsystem: N/A
Designed By: MD. Mohiuddin Sosem	Design Date: 10-01-21
Maisha Tahsin Sharita	
Executed By: MD. Mohiuddin Sosem	Execution date: 05-02-21
Maisha Tahsin Sharita	

Pre-Condition: The individuals must be registered if they want to use the system.

Step	Action	Expected System	Pass/Fail	Comment
		Response		
1.	If a user does not fill up the form, then the registration process will not be completed.	All requirements should be fulfilled on the field.	Pass	All requirements should be fulfilled on the field.
2.	If the user clicks only the register button without filling the required fields, then the process will not be completed.	All the required fields must be filled up.	Pass	All the required fields must be filled up.

3.	If the user enters invalid email addresses like ABC.com then it	The system should be given an error message with invalid inputs.	Pass	Invalid emailaddress.
	becomes unacceptable.			
4.	The user is expected to enter valid email address as ABC@gmail.com.	This type of email should be considered as valid email.	Pass	Valid email address.
5.	The user is expected to enter valid name and phone number.	The phone number field must be displayed by the system.	Pass	The phone number field must be a number field.
6.	The password and Confirmation password field is required by the user.	The system should display the password and confirmation password field.	Pass	Password and confirmation password must be required
7.	The password and confirmation password must be matched.	If the user does not give the same password in the fields, then the system will show error.	Pass	The both passwords must be same.
8.	The user is allowed to combine any kind of password characters.	It is accepted as a valid password by the system.	Pass	The password is valid.
9.	The user must fill the required fields with valid information or query.	The system will allow as it is registered and show the home page.	Pass	The registration process will be completed.

Test Case: 02

Table 12: Test Case-02

Test Case #: 01	Test Case Name: Login
System: Residence for Daffodillian.	Subsystem: N/A
Designed By: MD. Mohiuddin Sosem Maisha Tahsin Sharita	Design Date :01-01-21
Executed By: MD. Mohiuddin Sosem Maisha Tahsin Sharita	Execution date: 05-02-21

Pre-Condition: Must be signed up for access to his/her account.

Step	Action	Expected System	Pass/Fail	Comment
		Response		
1.	Entering email without	A message is displayed	Pass	Password is
	password.	by the system as		required.
		"password is required"		
2.	Entering password	System requires the	Pass	System
	without email.	field of email.		requires the
				field of
				email.
3.	If sign in button is clicked	The system requires	Pass	The system
	without filling the email	email and password		requires
	password field.	fields.		email and
				password
				fields.
4.	If a user enters invalid	"Invalid login	Pass	Invalid login
	email and password.	attempts" will be		attempts.
		displayed.		

6.	If the user enters valid	The account will be	Pass	The account
	email and password.	accessed by the system		will be
		successfully and will		accessed by
		be redirected to the		the system
		login page.		successfully
				and will be
				redirected to
				the login
				page.

Test Case: 03

Table 13: Test Case-03

Test Case #: 01	Test Case Name: Post room
System: Residence for Daffodillian	Subsystem: N/A
Designed By: MD. Mohiuddin Sosem Maisha Tahsin Sharita	Design Date: 01-01-21
Executed By: MD. Mohiuddin Sosem Maisha Tahsin Sharita	Execution date:05-02-21

Pre-Condition: Must be added product pictures, user phone number, product quantity

Step	Action	Expected System Response	Pass/Fail	Comment
1.	If the user fills the field without title name.	The field is required	Pass	The field is requiring.
2.	If a user confirms any field without filling any information.	The required field must be filled.	Pass	The required field must be filled.
3.	If the user posts room without picture.	The system will not accept the post.	Pass	The post will be rejected.

4.	If the user post without valid	The admin will	Pass	The post will
	description of the room.	not approve the		not be
		post.		approved.

Test Case: 04

Table 13: Test Case-03

Test Case #: 01	Test Case Name: Message
System: Residence for Daffodillian	Subsystem: N/A
Designed By: MD. Mohiuddin Sosem Maisha Tahsin Sharita	Design Date: 08-01-21
Executed By: MD. Mohiuddin Sosem Maisha Tahsin Sharita	Execution date:05-02-21

Pre-Condition: Must be added product pictures, user phone number, product quantity

Step	Action	Expected System	Pass/Fail	Comment
		Response		
1.	If the user send message without	The system will	Pass	The system will
	valid user name and email address.	not accept.		not accept.
2.	If the user send message with valid	The message will	Pass	The message
	user name and email address.	be sent to the		will be sent.
		Admin.		

CHAPTER 6

Impact on Society, Environment and Sustainability

6.1 Impact on Students

Using this application students can easily find their suitable hostel to live in. Their will be a lot of options for them to choose. They will be able to find hostels near campus. This will save their time. They can also find hostel in their budget. The app is user friendly so that the student can easily operate it.

6.2 Limitations

In most projects a project management methodology is essential however experience shows that it is never enough, that there is always another dimension that means "managing" and thus have some limitations. The limitations of my project are given below.

- 1. The unregistered user cannot post any room in the system.
- 2. The registered user cannot delete their account without the permission of Admin.
- 3. The registered user can not block each other in the system.

6.3 Obstacles & Achievements

The faster we will be solving inevitable problems rising during our web apps developing process the more time we will gain for sparking our creativity working on the add specific logic. Java is a server scripting language and a powerful tool for making dynamic and interactive android apps. It is widely used, free and efficient alternative to competitors.

CHAPTER 7 CONCLUSION AND FUTURE SCOPE

7.1 Discussion and Conclusion

For our application we can solve the issue which are existing in the previous time. By this application we are going to make or bring different kind of hostel rooms in one place and make the users to share their knowledge to other and know about the different hostel rooms.

7.2 Scope of Further Development

For most of the internet's history the purpose of my application is to connect people to each other to share, exchange and interact with information. As we build the internet of action through this management system, we will understand the value of interstate and expert users through the kind of rooms they share make decisions experiences and the brought saves of human goals and values the help each other to peruse. The challenge is for us is how much we engage our knowledge what values we consider and creativities we perform which will put value to this system. The future scope of my project is given below-People will get different kinds of video of room of authentic hostels. Admin can reject fake accounts.

References

- [1] https://erdplus.com/standalone
- [2] https://online.visual-paradigm.com/drive/#diagramlist:proj=0&new=UseCaseDiagram
- [3] http://guides.lib.berkeley.edu/how-to-write-good-documentation
- [4] https://www.huffpost.com/entry/3-ways-to-create-adocume_b_5950804?ec_carp=1214238055060485286

Appendices

May include any supporting material which is not essential for the main body of the report

These could be:

- Questionnaire designed for use
- Completed questionnaires received
- Details of requirements
- User evaluation of the system I developed
- User manual/guide
- Test plans and results
- Project plans
- Tables of contents
- Diagrams

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