



**技职教育系**

**Department of Vocational Education**

**软件工程与移动应用程序开发课程**

**Software Engineering and Application Developer  
(SEMD)**

**个人作业**

**Final Assignment**

科目	Subject	Mobile Application Development- IOS
科目编号 Code	Subject	SEMD016
中文姓名 Name	Chinese	卢诚禧
英文姓名 Name	English	Loo Zhen Xi
学号 ID	Student	1850170
分数	Marks	

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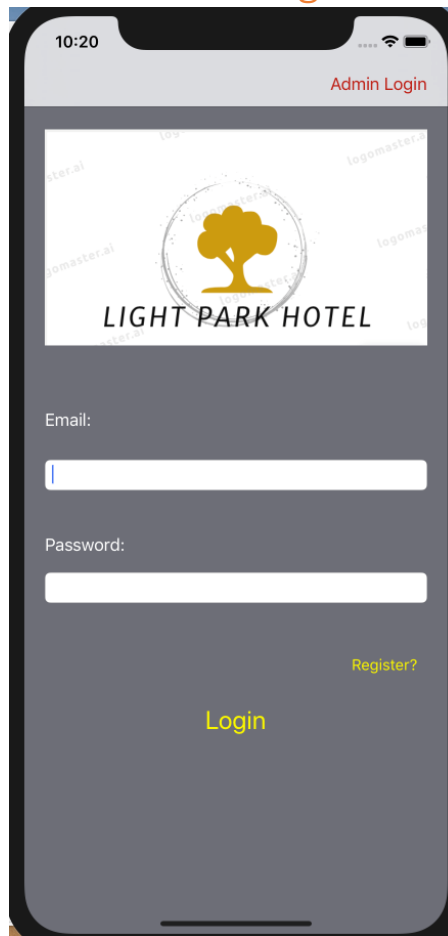
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# Admin Manual

---

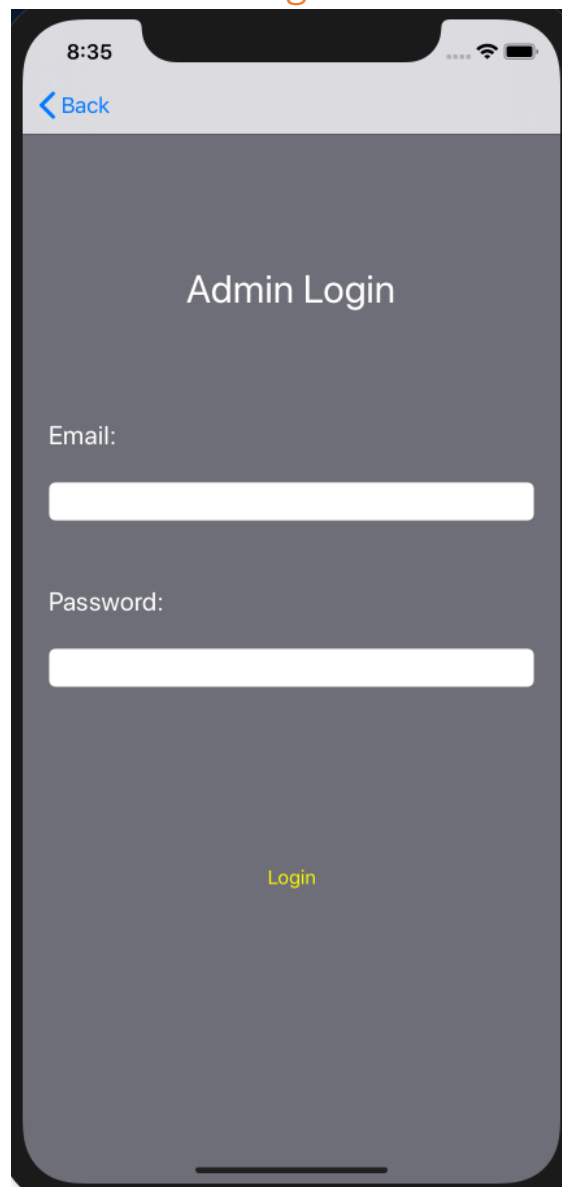
## Before Login



Before this application open to user, please register a admin account with [admin@gmail.com](mailto:admin@gmail.com) and password admin.

After registration you can press the Admin Login on top right of the screen.

## Login



A mobile application interface for Admin Login. The screen has a dark gray background. At the top, there is a status bar with the time 8:35, signal strength, and battery level. Below the status bar is a navigation bar with a blue back arrow and the text "Back". The main content area is titled "Admin Login" in white text. Below the title, there are two white input fields. The first field is labeled "Email:" and the second field is labeled "Password:". Below the input fields, there is a yellow "Login" button. The bottom of the screen shows a home indicator bar.

8:35

< Back

Admin Login

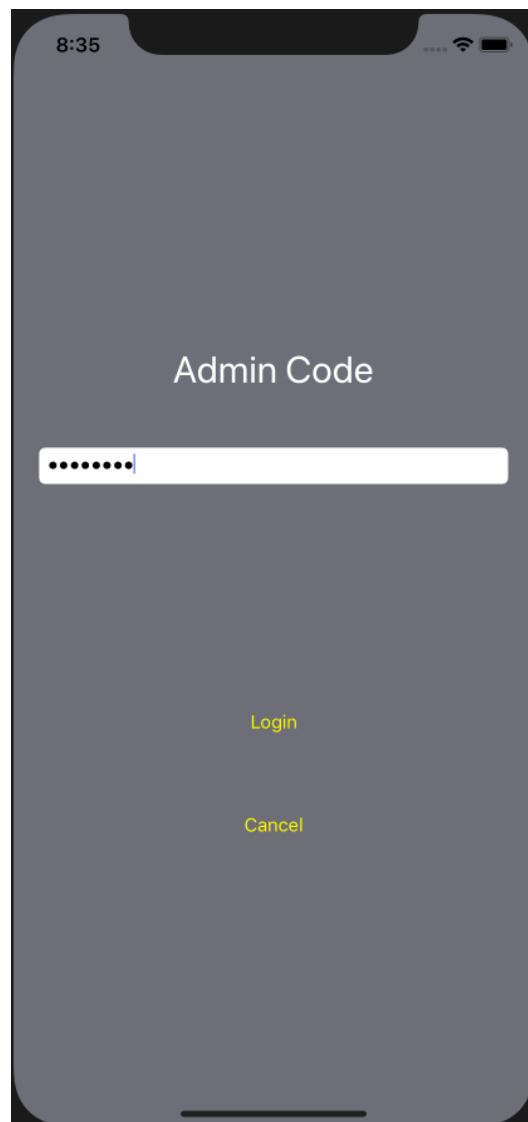
Email:

Password:

Login

This is the page of admin login insert email and admin password that we register before login and press the login button.

## Admin Code

A mobile application screen for admin login. The status bar at the top shows the time 8:35, signal strength, and battery level. The screen has a dark gray background. In the center, the text "Admin Code" is displayed in white. Below this is a white rectangular input field containing seven black dots, indicating a masked password. At the bottom of the screen, there are two yellow buttons: "Login" and "Cancel".

8:35

Admin Code

.....

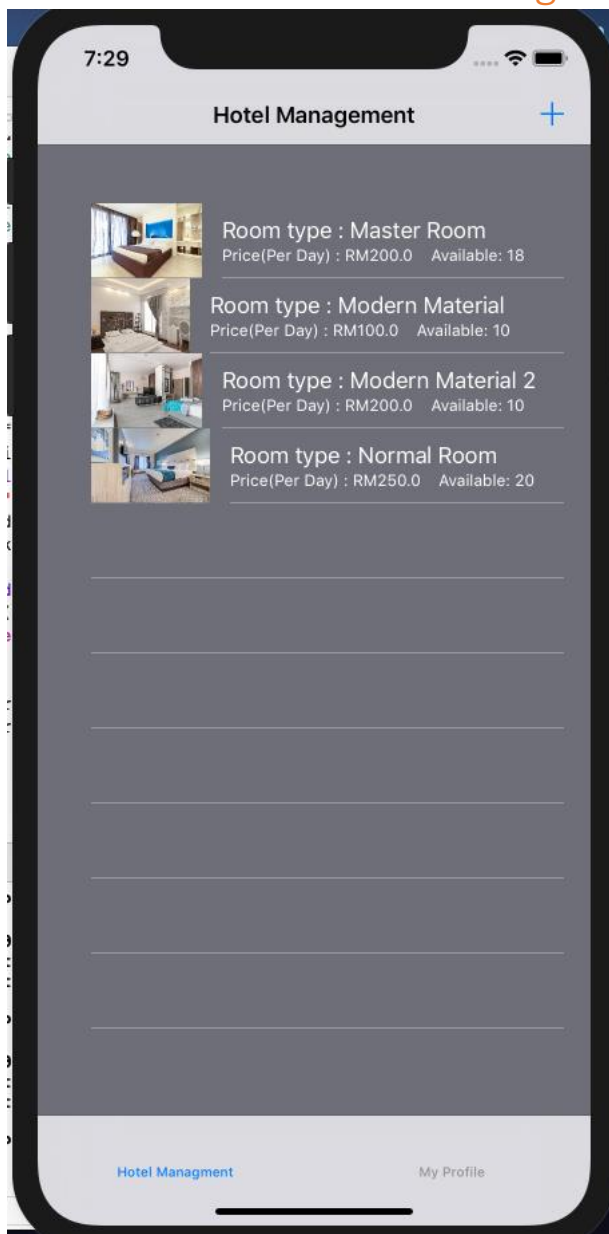
Login

Cancel

This is a confirmation to make sure other user didn't allow to login by admin account.

Admin Code: Admin185.

## Hotel Management - Room List



Once you login with admin account you will be seeing this Hotel Management room list you can add new room by pressing the + button on the top right or select one of the room in this list to do edition, update or delete.

## Add Room

7:26

< Back Add Room

Room type

Quantity

MAX Guest:

Price(Per day)

RM:

Room Details

Submit

Hotel Management My Profile

7:29

< Back Add Room

Room type Normal Room

Quantity 20

MAX Guest: 2

Price(Per day)

RM: 250

Room Details

its a room with tv and queen size bed

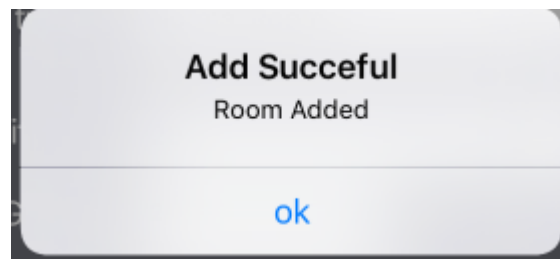
Submit

Hotel Management My Profile

Left: That black area is an on click area that allow you to upload your room image from phone to that area. And all the blank below is the detail and information about your room (Room type-name, quantity of room, max guest allow, price, room details-description)

Right: this is the example after all insert.

Press the Submit button to add this room.






## Edit / Delete Room

8:36

< Back Edit Room Delete



Room type Master Room

Quantity 18

MAX Guest: 4

Price(Per day)  
RM: 200.0

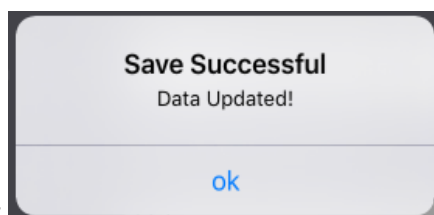
Room Details

This is Master room with king bed

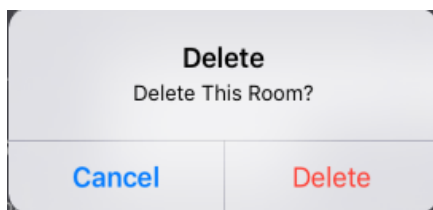
Update

Hotel Management My Profile

It allow admin to change the room information (price, max guest, quantity of room) or delete this room on list.



Case Update:



Case Delete:

Room will only delete after clicked Delete button.

## My Profile - Admin




For private case this will only show admin name and image about admin, you can edit and view more details after press Edit button.

## Edit Profile - Admin

7:29

< My Profile



Admin Name: Loo Zhen Xi (Admin)

Email: admin@gmail.com

Gender: Male

Date of Birth: 09/04/2019

Phone: 1850170

Save

Hotel Management My Profile

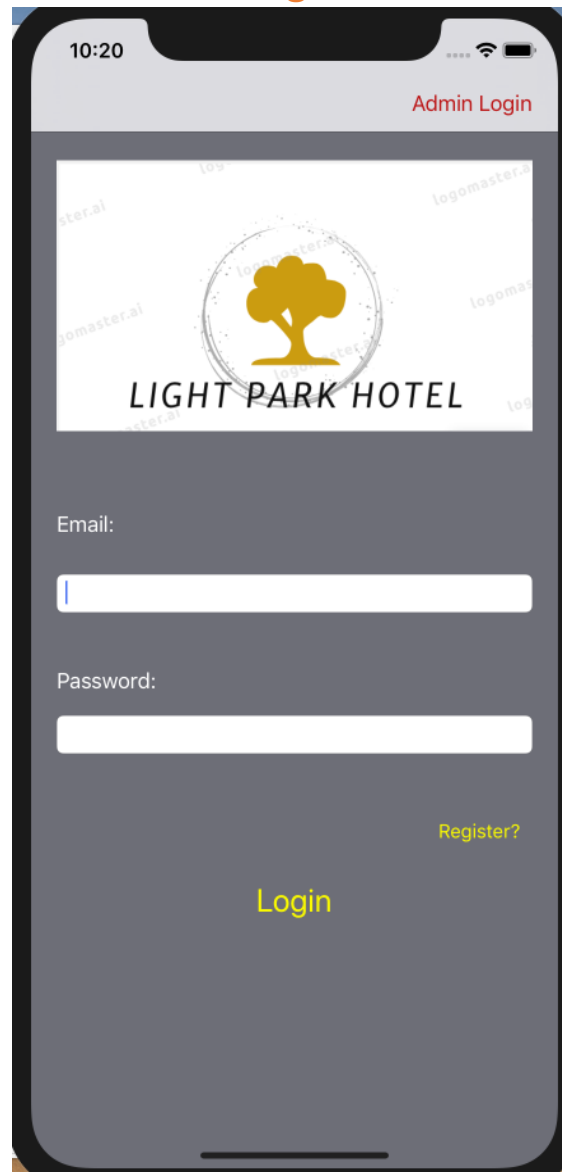
Here you can edit your admin information including Profile Picture, Name, Gender, Date of Birth and Phone Number in case that admin changed.

## Launch Screen



This is our Launch Screen while loading the application.

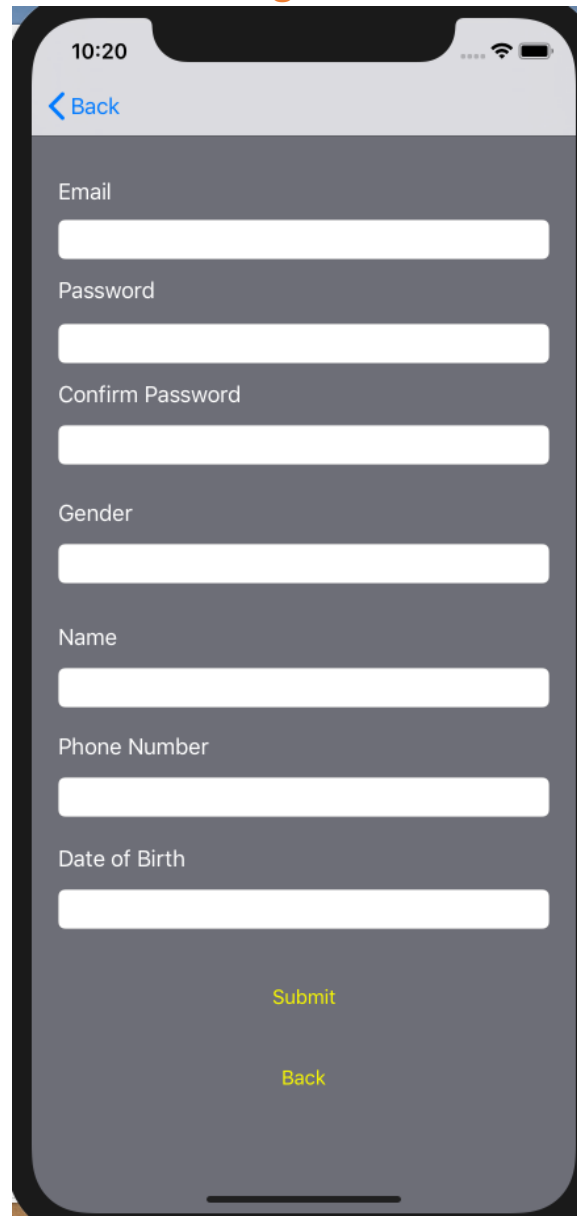
## Login



The image shows a mobile application interface for the 'Light Park Hotel'. At the top, the status bar displays the time '10:20' and signal/battery icons. Below this, a header bar contains the text 'Admin Login' in red. The main content area features a logo for 'LIGHT PARK HOTEL' which consists of a stylized yellow tree inside a circular frame with the text 'LIGHT PARK HOTEL' below it. Underneath the logo, there are two input fields: one for 'Email:' and one for 'Password:'. To the right of the password field, there is a link that says 'Register?'. At the bottom of the form, there is a large yellow button labeled 'Login'.

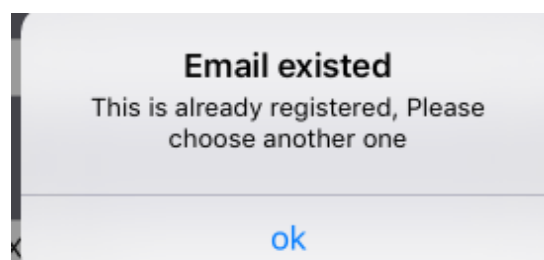
It is our Login page of user for user insert email and password to login. If it didn't have account yet please click on the Register? Button.

## Register

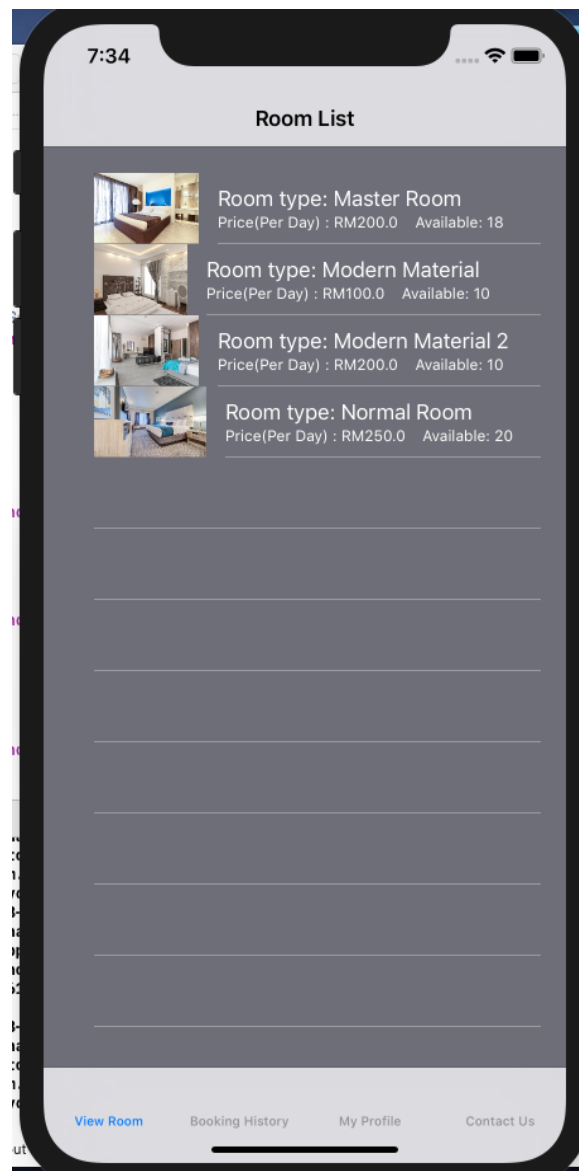


A mobile app screen for registration. At the top, the status bar shows the time 10:20, signal strength, Wi-Fi, and battery. Below the status bar is a blue header with a back arrow and the text "Back". The main area is a dark gray form with white input fields. The fields are labeled: Email, Password, Confirm Password, Gender, Name, Phone Number, and Date of Birth. At the bottom of the form are two yellow buttons: "Submit" and "Back".

Here is the screen after clicked register? Button on Login screen. Please insert all the information.  
Remind: once email has been registered can't register again, please write down you email in case.

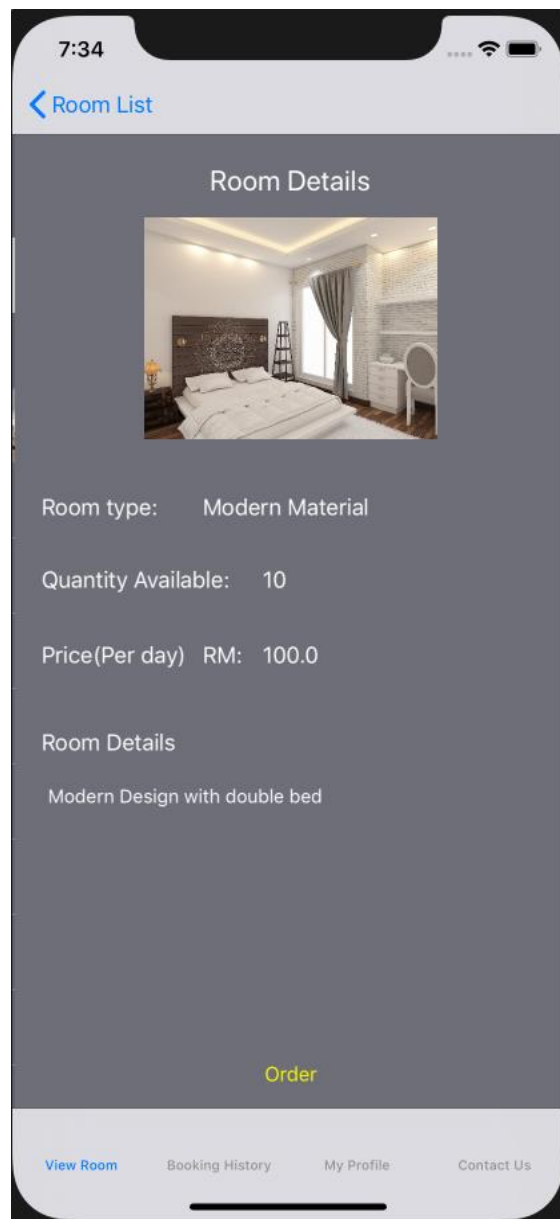


## Room List



After you Login, this is first you will be seeing. It is all room list that we have now, select one of the room to see details.

## Room Details




After select room on room list, it's the page show you all the detail about (price, available, room details) and an order button.



## Oder

7:34

< Back



Room Type

Modern Material

Avaiable: 10

Room Quantity:

-

1

+

Max Guest:

2

Date: (MM/dd/yyyy)

08/20/2019

To

08/24/2019

Days:

-

4

+

Price: RM

400.0

Payment

View Room

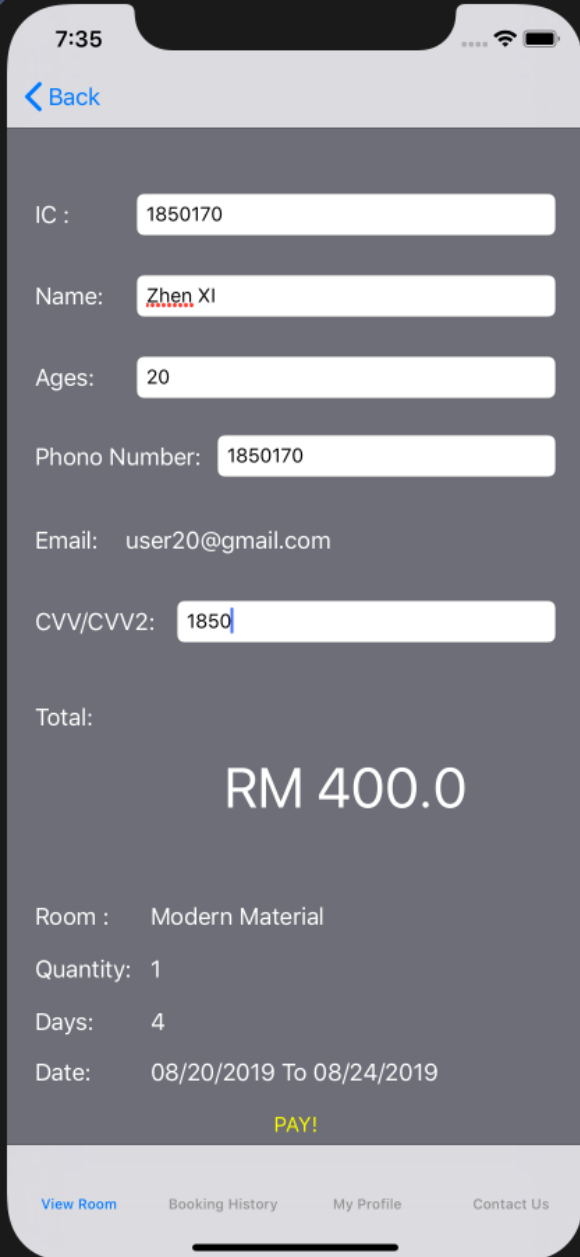
Booking History

My Profile

Contact Us

Select your room quantity (Max 3), date and days that you want to book. Confirm all the selection is correct press Payment button.

## Payment

A screenshot of a mobile application's payment screen. At the top, the status bar shows the time 7:35 and signal/battery icons. Below the status bar is a navigation bar with a blue back arrow and the text '< Back'. The main form area has a dark grey background. It contains several input fields: 'IC :' with the value '1850170', 'Name:' with the value 'Zhen Xi', 'Ages:' with the value '20', 'Phono Number:' with the value '1850170', 'Email:' with the value 'user20@gmail.com', and 'CVV/CVV2:' with the value '1850'. Below these fields, the text 'Total:' is followed by a large white display showing 'RM 400.0'. Further down, booking details are listed: 'Room : Modern Material', 'Quantity: 1', 'Days: 4', and 'Date: 08/20/2019 To 08/24/2019'. A yellow 'PAY!' button is centered below the date. At the bottom, a light grey navigation bar contains four links: 'View Room' (in blue), 'Booking History', 'My Profile', and 'Contact Us'.

7:35

< Back

IC : 1850170

Name: Zhen Xi

Ages: 20

Phono Number: 1850170

Email: user20@gmail.com

CVV/CVV2: 1850

Total:

RM 400.0

Room : Modern Material

Quantity: 1

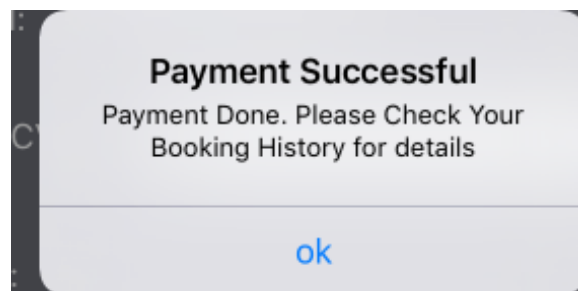
Days: 4

Date: 08/20/2019 To 08/24/2019

PAY!

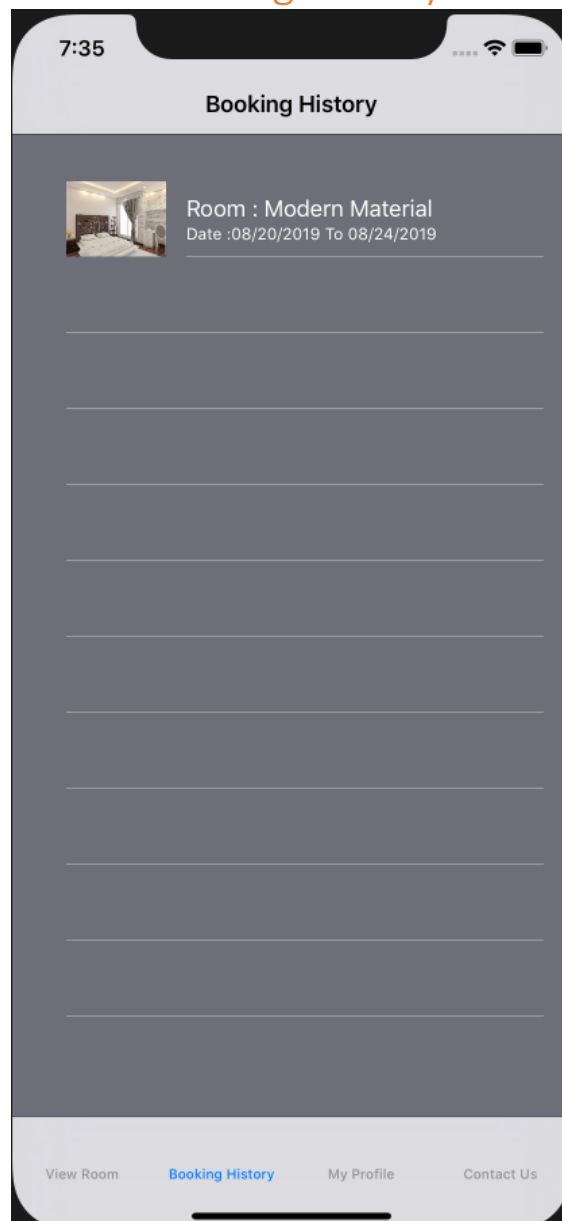
View Room Booking History My Profile Contact Us

Insert all your personal information for the payment, make sure you room type, quantity, days, date is correct press Pay! Button to do the payment.



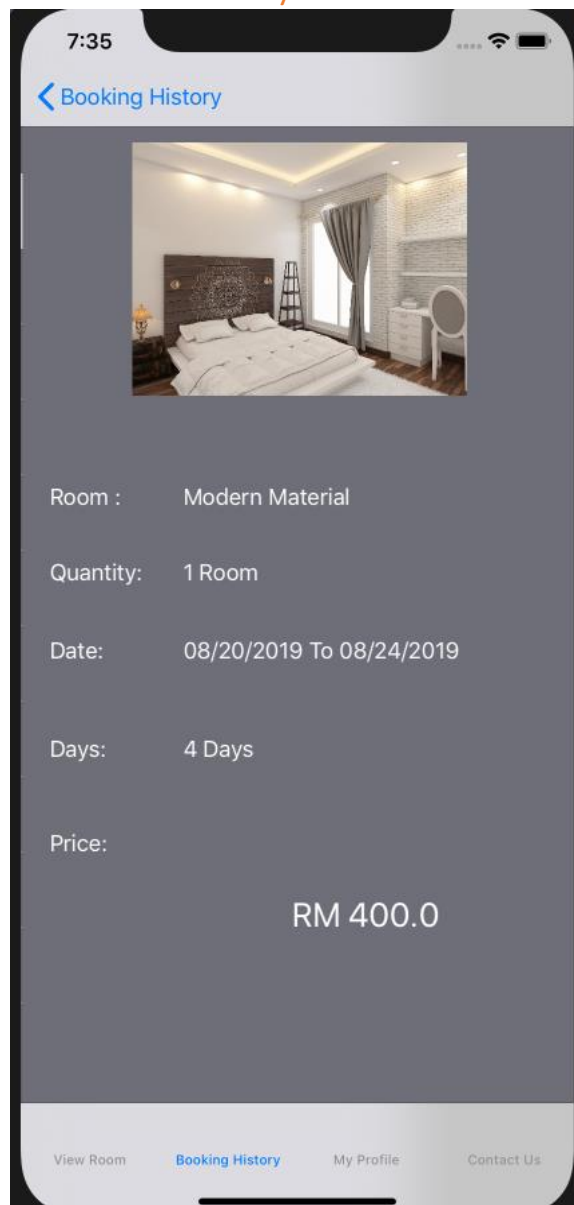
After payment you can go to booking history to see your booking details.

## Booking History



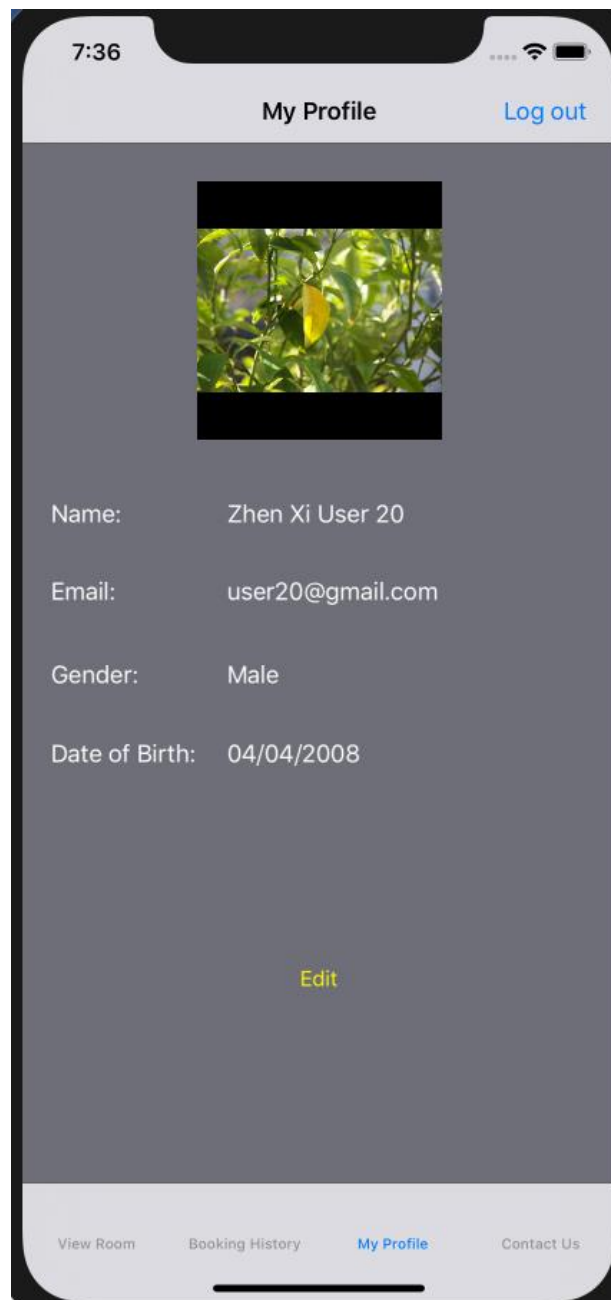
Here is your booking history all the booking you have done before will show here. Select the list of room history you want to check details.

## History Details



Here is the history details that you selected room in booking history with quantity, Date, Days, price that you booked.

## User Profile




It page show your information about you self and you can edit it by pressing edit button.

## Edit Profile

7:36

< My Profile



Name: Zhen Xi User 20

Email: user20@gmail.com

Gender:

Date of Birth:

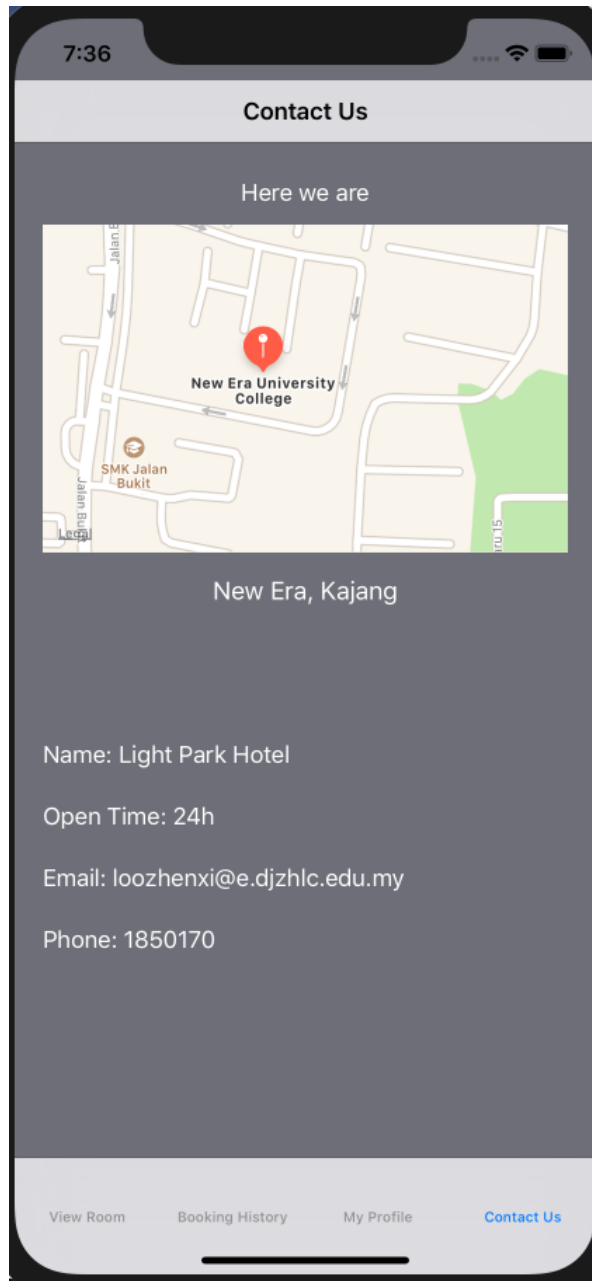
Phone Number:

Save

View Room   Booking History   My Profile   Contact Us

Here you can edit your gender, date of birth and phone number in case that you insert wrong information in register or your phone number had changes.

## Contact Us



Here is the page provide our hotel information email, Location, Phone, Open Hour.

# Coding

---

## ViewController (Login)

```
//
// ViewController.swift
// Final
//
// Created by ZhenXi on 29/07/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//

import UIKit
import CoreData

class ViewController: UIViewController {

    @IBOutlet weak var emailtxt: UITextField!
    @IBOutlet weak var passwordtxt: UITextField!

    override func viewDidLoad() {
        super.viewDidLoad()
        // Do any additional setup after loading the view.
    }

    @IBAction func loginbtn(_ sender: Any) {
        let appDelegate = UIApplication.shared.delegate as! AppDelegate
        let db = appDelegate.persistentContainer.viewContext
        let request : NSFetchRequest<NSFetchRequestResult> = NSFetchRequest(entityName: "Useraccount")
        let predicate = NSPredicate(format: "email = \"%(emailtxt.text!)\"")
        request.predicate = predicate

        do{
            let result = try db.fetch(request) as! [NSManagedObject]
            if(result.count > 0){
                let account = result[0] as! Useraccount
                if(account.password == passwordtxt.text!){

                    UserDefaults.standard.set(emailtxt.text!, forKey: "email")

                    let storyboard = UIStoryboard(name: "Main", bundle: nil)

                    let usertabBar = storyboard.instantiateViewController(withIdentifier: "user") as! UITabBarController

                    present(usertabBar,animated: true,completion: nil)
                }
            }
            else{
                let alert = UIAlertController(title: "Login Fail", message: "Email or Password is incorrect",
                preferredStyle: .alert)
                let action = UIAlertAction(title: "ok", style: .default, handler: nil)

                alert.addAction(action)
                present(alert,animated: true,completion: nil)
            }
        }
        else{
            let alert = UIAlertController(title: "Login Fail", message: "Account didn't exists, Please Register First",
            preferredStyle: .alert)
            let action = UIAlertAction(title: "ok", style: .default, handler: nil)

            alert.addAction(action)
            present(alert,animated: true,completion: nil)
        }
    }
}
```



```

    }
}
catch let error as NSError{
    print(error)
}
}
}

```

## SignUpViewController

```

//
// SignUpViewController.swift
// Final
//
// Created by ZhenXi on 29/07/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//

import UIKit
import CoreData

class SignUpViewController: UIViewController, UIPickerViewDataSource, UIPickerViewDelegate{

    @IBOutlet weak var gendertxt: UITextField!
    @IBOutlet weak var emailtxt: UITextField!
    @IBOutlet weak var passwordtxt: UITextField!
    @IBOutlet weak var cpasswordtxt: UITextField!
    @IBOutlet weak var nametxt: UITextField!
    @IBOutlet weak var phonetxt: UITextField!
    @IBOutlet weak var dateofbirthtxt: UITextField!

    var gendertype = ["Male", "Female"]
    var selectedgender :String?
    var used = 0;
    var datePicker : UIDatePicker?

    override func viewDidLoad() {
        super.viewDidLoad()

        //Gender Picker
        createPicker()

        //date picker
        datePicker = UIDatePicker()
        datePicker?.datePickerMode = .date
        datePicker?.addTarget(self, action: #selector(SignUpViewController.dateChanged(datePicker:)),
for: .valueChanged)

        let tapGesture = UITapGestureRecognizer(target: self, action:
#selector(SignUpViewController.viewTapped(gestureRecognizer:)))

        view.addGestureRecognizer(tapGesture)

        dateofbirthtxt.inputView = datePicker
    }

    @objc func viewTapped(gestureRecognizer : UITapGestureRecognizer){
        view.endEditing(true)
    }

    @objc func dateChanged(datePicker : UIDatePicker){
        let dateFormatter = DateFormatter()
        dateFormatter.dateFormat = "MM/dd/yyyy"
        dateofbirthtxt.text = dateFormatter.string(from: datePicker.date)
    }
}

```

```

}

@IBAction func submitbtn(_ sender: Any) {
    let email = emailtxt.text!
    let password = passwordtxt.text!
    let cpassword = cpasswordtxt.text!
    let gender = gendertxt.text!
    let name = nametxt.text!
    let phone = phonetxt.text!
    let date = dateofbirthtxt.text!

    if (email == "" || password == "" || cpassword == "" || gender == "" || name == "" || phone == "" || date == "") {

        let alert = UIAlertController(title: "Fail", message: "Please fill in all the blank", preferredStyle: .alert)
        let action = UIAlertAction(title: "ok", style: .default, handler: nil)

        alert.addAction(action)
        present(alert, animated: true, completion: nil)
    }else{
        //check email exist
        let appDelegate = UIApplication.shared.delegate as! AppDelegate
        let db = appDelegate.persistentContainer.viewContext
        let request : NSFetchedRequest<NSFetchRequestResult> = NSFetchRequest(entityName: "Useraccount")
        let predicate = NSPredicate(format: "email = \"\\(email)\"")
        request.predicate = predicate

        do{
            let result = try db.fetch(request) as! [NSManagedObject]
            if(result.count > 0){

                used = 1;

            }

        }
        catch let error as NSError{
            print(error)
        }

        //check password and confirm password
        if(password != cpassword){
            let alert = UIAlertController(title: "Fail", message: "Password and ConfirmPassword not match",
preferredStyle: .alert)
            let action = UIAlertAction(title: "ok", style: .default, handler: nil)

            alert.addAction(action)
            present(alert,animated: true,completion: nil)
        }else if(used == 1){
            let alert = UIAlertController(title: "Email existed", message: "This is already registered, Please choose
another one", preferredStyle: .alert)
            let action = UIAlertAction(title: "ok", style: .default, handler: nil)

            alert.addAction(action)
            present(alert,animated: true,completion: nil)
            used = 0
        }
        else{

            let appDelegate = UIApplication.shared.delegate as! AppDelegate
            let db = appDelegate.persistentContainer.viewContext
            let entity = NSEntityDescription.entity(forEntityName: "Useraccount", in: db)
            let object = NSManagedObject(entity: entity!, insertInto: db) as! Useraccount

            object.email = email
            object.password = password
            object.gender = gender
            object.name = name

```

```

object.phone = phone
object.dateofbirth = date

do{
    try db.save()
    let alert = UIAlertController(title: "Successful", message: "Account Registered", preferredStyle: .alert)

    let action = UIAlertAction(title: "ok", style: .default, handler: successful(alert:))

    alert.addAction(action)
    present(alert,animated: true,completion: nil)

    used = 0

}
catch let error as NSError{
    print(error)
}
}
}

func successful(alert: UIAlertAction){
    let storyboard = UIStoryboard(name: "Main", bundle: nil)

    let LoginPage = storyboard.instantiateViewController(withIdentifier: "Login")

    present(LoginPage,animated: true,completion: nil)
}

//Gender Picker
func createPicker() {

    let picker = UIPickerView()
    picker.delegate = self

    gendertxt.inputView = picker
}

func numberOfComponents(in pickerView: UIPickerView) -> Int {
    return 1
}

func pickerView(_ pickerView: UIPickerView, numberOfRowsInComponent component: Int) -> Int {
    return gendertype.count
}

func pickerView(_ pickerView: UIPickerView, titleForRow row: Int, forComponent component: Int) -> String? {
    return gendertype[row]
}

func pickerView(_ pickerView: UIPickerView, didSelectRow row: Int, inComponent component: Int) {
    selectedgender = gendertype[row]
    gendertxt.text = selectedgender
}
}

```

## Admintab1ViewController

```

//
// Admintab1ViewController.swift
// Final
//
// Created by ZhenXi on 29/07/2019.
// Copyright © 2019 ZhenXi. All rights reserved.

```

```
//

import UIKit
import CoreData

class AdminTab1ViewController: UIViewController, UITableViewDelegate, UITableViewDataSource{

    var array : [NSManagedObject] = []
    @IBOutlet weak var tbview: UITableView!

    override func viewDidLoad() {
        super.viewDidLoad()

    }

    override func viewWillAppear(_ animated: Bool) {
        let appDelegate = UIApplication.shared.delegate as! AppDelegate
        let db = appDelegate.persistentContainer.viewContext
        let request : NSFetchedRequest<NSFetchedRequestResult> = NSFetchedRequest(entityName: "Room")

        do {
            let result = try db.fetch(request) as! [NSManagedObject]
            array = result
            tbview.reloadData()
        }
        catch let error as NSError {
            print(error)
        }
    }

    func tableView(_ tableView: UITableView, numberOfRowsInSection section: Int) -> Int {
        return array.count
    }

    func tableView(_ tableView: UITableView, cellForRowAt indexPath: IndexPath) -> UITableViewCell {
        let cell = tableView.dequeueReusableCell(withIdentifier: "admincell")
        let object = array[indexPath.row] as! Room

        cell?.textLabel?.textColor = UIColor.white
        cell?.detailTextLabel?.textColor = UIColor.white

        cell?.textLabel?.text = "Room type : \(object.type!)"
        cell?.detailTextLabel?.text = "Price(Per Day) : RM\(object.price)   Available: \(object.quantity.description)"

        let image : UIImage = UIImage(data: object.image!)?
        cell?.imageView?.image = image
        return cell!
    }

    override func prepare(for segue: UIStoryboardSegue, sender: Any?) {
        if(segue.identifier == "details"){
            let destination = segue.destination as! EditRoomViewController

            let index = tbview.indexPathForSelectedRow

            destination.room = array[index!.row] as! Room
        }
    }
}

```

## Admintab2ViewController

```
//
// Admintab2ViewController.swift
// Final
//
// Created by ZhenXi on 29/07/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//

import UIKit
import CoreData

class Admintab2ViewController: UIViewController{

    var email = UserDefaults.standard.string(forKey: "adminemail")
    @IBOutlet weak var adminnamelbl: UILabel!
    @IBOutlet weak var imageView: UIImageView!

    override func viewDidLoad() {
        super.viewDidLoad()

    }

    override func viewWillAppear(_ animated: Bool) {

        let appDelegate = UIApplication.shared.delegate as! AppDelegate
        let db = appDelegate.persistentContainer.viewContext
        let request : NSFetchedRequest<NSFetchedRequestResult> = NSFetchedRequest(entityName: "Useraccount")
        let predicate = NSPredicate(format: "email=\\(email!)")

        request.predicate = predicate

        do{
            let result = try db.fetch(request) as! [NSManagedObject]
            if(result.count > 0){
                let object = result[0]
                adminnamelbl.text = object.value(forKey: "name") as! String
                let image = object.value(forKey: "image") as? Data
                if(image != nil){
                    let imagec : UIImage = UIImage(data: image!)!
                    imageView.image = imagec
                }
            }
        } catch let error as NSError{
            print(error)
        }
    }

    @IBAction func Logoutbtn(_ sender: Any) {
        let alert = UIAlertController(title: "LogOut", message: "Are You Sure Want To LogOut", preferredStyle: .alert)

        let action = UIAlertAction(title: "LogOut", style: .default, handler: logout(alert:))

        let action2 = UIAlertAction(title: "Cancel", style: .cancel, handler: nil)

        alert.addAction(action)
        alert.addAction(action2)

        present(alert,animated: true,completion: nil)
    }

    func logout(alert: UIAlertAction){
        let storyboard = UIStoryboard(name: "Main", bundle: nil)
```

```

        let logout = storyboard.instantiateViewController(withIdentifier: "Login") as! UINavigationController
        present(logout,animated: true,completion: nil)
    }

    override func prepare(for segue: UIStoryboardSegue, sender: Any?) {
        if(segue.identifier == "admind"){
            let destination = segue.destination as! adminaccountViewController

            let index = email!
            let name = adminname!.text!

            destination.adminemail = index.description
            destination.adminname = name.description
        }
    }
}

```

## AddhotelViewController

```

//
// AddhotelViewController.swift
// Final
//
// Created by ZhenXi on 29/07/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//

```

```

import UIKit
import CoreData

```

```

class AddhotelViewController: UIViewController ,UIImagePickerControllerDelegate,
UINavigationControllerDelegate{

```

```

    @IBOutlet weak var roomtypetxt: UITextField!
    @IBOutlet weak var quantitytxt: UITextField!
    @IBOutlet weak var pricetxt: UITextField!
    @IBOutlet weak var detailstxt: UITextField!
    @IBOutlet weak var guesttxt: UITextField!
    @IBOutlet weak var imageView: UIImageView!

```

```

    var existed = 0;

```

```

    override func viewDidLoad() {
        super.viewDidLoad()

```

```

        let tapGestureRecognizer = UITapGestureRecognizer(target: self, action:
#selector(imageTapped(tapGestureRecognizer:)))
        imageView.isUserInteractionEnabled = true
        imageView.addGestureRecognizer(tapGestureRecognizer)

```

```

    }

```

```

    @objc func imageTapped(tapGestureRecognizer: UITapGestureRecognizer)
    {
        let tappedImage = tapGestureRecognizer.view as! UIImageView
        if(UIImagePickerController.isSourceTypeAvailable(UIImagePickerController.SourceType.photoLibrary)){
            let imag = UIImagePickerController()
            imag.delegate = self
            imag.sourceType = UIImagePickerController.SourceType.photoLibrary;
            imag.allowsEditing = false
            present(imag, animated: true, completion: nil)

```

```

    }
}
func imagePickerController(_ picker: UIImagePickerController, didFinishPickingMediaWithInfo info:
[UIImagePickerController.InfoKey : Any]) {
    let selectedImage : UIImage = info[UIImagePickerController.InfoKey.originalImage] as! UIImage
    imageView.image=selectedImage
    self.dismiss(animated: true, completion: nil)
}

func imagePickerControllerDidCancel(_ picker: UIImagePickerController) {
    self.dismiss(animated: true, completion: nil)
}

@IBAction func addbtn(_ sender: Any) {

    let type = roomtypetxt.text!
    let quantity = quantitytxt.text!
    let price = pricetxt.text!
    let details = detailstxt.text!
    let maxguest = guesttxt.text!

    if(type == "" || quantity == "" || price == "" || details == "" || imageView.image == nil){

        let alert = UIAlertController(title: "Fail", message: "Please fill in all the blank", preferredStyle: .alert)
        let action = UIAlertAction(title: "ok", style: .default, handler: nil)

        alert.addAction(action)
        present(alert,animated: true,completion: nil)
    }
    else{
        let appDelegate = UIApplication.shared.delegate as! AppDelegate
        let db = appDelegate.persistentContainer.viewContext
        let request : NSFetchRequest<NSFetchRequestResult> = NSFetchRequest(entityName: "Room")
        let predicate = NSPredicate(format: "type=\"(roomtypetxt.text!)\"")

        request.predicate = predicate

        do{
            let result = try db.fetch(request) as! [NSManagedObject]

            if(result.count > 0){
                existed = 1;

                let alert = UIAlertController(title: "Room Exsits", message: "This Room Is Already Exsits!, Please
Rename", preferredStyle: .alert)
                let action = UIAlertAction(title: "ok", style: .default, handler: nil)

                alert.addAction(action)
                present(alert,animated: true,completion: nil)
            }
            else{
                existed = 0;
            }
        }
        catch let error as NSError{
            print(error)
        }
        if(existed != 1){
            let imgData : Data = imageView.image!.pngData()! as Data;

            let appDelegate = UIApplication.shared.delegate as! AppDelegate
            let db = appDelegate.persistentContainer.viewContext
            let entity = NSEntityDescription.entity(forEntityName: "Room", in: db)
            let object = NSManagedObject(entity: entity!, insertInto: db) as! Room

            object.type = type

```

```

        object.quantity = Int16(quantity)!
        object.price = Float(price)!
        object.details = details
        object.guest = Int16(maxguest)!
        object.image = imgData

        do{
            try db.save()

            let alert = UIAlertController(title: "Add Succesful", message: "Room Added", preferredStyle: .alert)
            let action = UIAlertAction(title: "ok", style: .default, handler: backtotab(alert:))

            alert.addAction(action)
            present(alert,animated: true,completion: nil)

        }
        catch let error as NSError{
            print(error)
        }
    }
}

func backtotab(alert: UIAlertAction){
    let storyboard = UIStoryboard(name: "Main", bundle: nil)

    let tabbar = storyboard.instantiateViewController(withIdentifier: "admin") as! UITabBarController

    present(tabbar,animated: true,completion: nil)
}
}

```

## Ustertab1ViewController

```

//
// Ustertab1ViewController.swift
// Final
//
// Created by ZhenXi on 29/07/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//

import UIKit
import CoreData

class Ustertab1ViewController: UIViewController ,UITableViewDelegate, UITableViewDataSource{

    @IBOutlet weak var tbview: UITableView!

    var array : [NSManagedObject] = []

    override func viewDidLoad() {
        super.viewDidLoad()
    }

    override func viewWillAppear(_ animated: Bool) {
        let appDelegate = UIApplication.shared.delegate as! AppDelegate
        let db = appDelegate.persistentContainer.viewContext
        let request : NSFetchRequest<NSFetchRequestResult> = NSFetchRequest(entityName: "Room")

        do{
            let result = try db.fetch(request) as! [NSManagedObject]

```



```

        array = result
        tbview.reloadData()
    }
    catch let error as NSError{
        print(error)
    }
}

func tableView(_ tableView: UITableView, numberOfRowsInSection section: Int) -> Int {
    return array.count
}

func tableView(_ tableView: UITableView, cellForRowAt indexPath: IndexPath) -> UITableViewCell {

    let cell = tableView.dequeueReusableCell(withIdentifier: "usercell")

    let object = array[indexPath.row] as! Room

    cell?.titleLabel?.textColor = UIColor.white
    cell?.detailTextLabel?.textColor = UIColor.white
    cell?.titleLabel?.text = "Room type: \(object.type!)"
    cell?.detailTextLabel?.text = "Price(Per Day) : RM\(object.price)   Available: \(object.quantity.description)"
    let image : UIImage = UIImage(data: object.image!)?
    cell?.imageView?.image = image

    return cell!
}

override func prepare(for segue: UIStoryboardSegue, sender: Any?) {

    if(segue.identifier == "userdetail"){
        let destination = segue.destination as! UserViewRoomViewController

        let index = tbview.indexPathForSelectedRow

        destination.room = array[index!.row] as! Room
    }
}
}

```

## EditRoomViewController

```

//
// EditRoomViewController.swift
// Final
//
// Created by ZhenXi on 29/07/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//

import UIKit
import CoreData

class EditRoomViewController: UIViewController, UIImagePickerControllerDelegate,
UINavigationControllerDelegate {

    @IBOutlet weak var roomtypelbl: UILabel!
    @IBOutlet weak var quantitytxt: UITextField!
    @IBOutlet weak var pricetxt: UITextField!
    @IBOutlet weak var detailstxt: UITextField!
    @IBOutlet weak var questtxt: UITextField!

```

```

@IBOutlet weak var imageView: UIImageView!

var room : Room?

override func viewDidLoad() {
    super.viewDidLoad()

    roomtypeLbl.text = room!.type!
    quantityTxt.text = room!.quantity.description
    priceTxt.text = room!.price.description
    detailTxt.text = room!.details!
    guestTxt.text = room!.guest.description
    let image : UIImage = UIImage(data: room!.image!)!
    imageView.image = image

    let tapGestureRecognizer = UITapGestureRecognizer(target: self, action:
#selector(imageTapped(tapGestureRecognizer: UITapGestureRecognizer)))
    imageView.isUserInteractionEnabled = true
    imageView.addGestureRecognizer(tapGestureRecognizer)
}

@objc func imageTapped(tapGestureRecognizer: UITapGestureRecognizer)
{
    let tappedImage = tapGestureRecognizer.view as! UIImageView
    if(UIImagePickerController.isSourceTypeAvailable(UIImagePickerController.SourceType.photoLibrary)){
        let imag = UIImagePickerController()
        imag.delegate = self
        imag.sourceType = UIImagePickerController.SourceType.photoLibrary;
        imag.allowsEditing = false
        present(imag, animated: true, completion: nil)
    }
}

func imagePickerController(_ picker: UIImagePickerController, didFinishPickingMediaWithInfo info:
[UIImagePickerController.InfoKey : Any]) {
    let selectedImage : UIImage = info[UIImagePickerController.InfoKey.originalImage] as! UIImage
    imageView.image=selectedImage
    self.dismiss(animated: true, completion: nil)
}

func imagePickerControllerDidCancel(_ picker: UIImagePickerController) {
    self.dismiss(animated: true, completion: nil)
}

@IBAction func updateBtn(_ sender: Any) {
    let appDelegate = UIApplication.shared.delegate as! AppDelegate
    let db = appDelegate.persistentContainer.viewContext
    let request : NSFetchRequest<NSFetchRequestResult> = NSFetchRequest(entityName: "Room")
    let predicate = NSPredicate(format: "type='\(roomtypeLbl.text!)'")

    request.predicate = predicate

    do{
        let result = try db.fetch(request) as! [NSObject]

        if(result.count > 0){
            let object = result[0]

            let imgData : Data = imageView.image!.pngData()! as Data;

            object.setValue(imgData, forKey: "image")
            object.setValue(Int16(quantityTxt.text!), forKey: "quantity")
            object.setValue(Float(priceTxt.text!), forKey: "price")
            object.setValue(detailTxt.text!.description, forKey: "details")
            object.setValue(Int16(guestTxt.text!), forKey: "guest")

            try db.save()

```

```

        let alert = UIAlertController(title: "Update Successful", message: "Data Updated", preferredStyle: .alert)
        let action = UIAlertAction(title: "ok", style: .default, handler: backtotab(alert:))

        alert.addAction(action)
        present(alert, animated: true, completion: nil)
    }
}
catch let error as NSError{
    print(error)
}
}

@IBAction func DeleteBtn(_ sender: Any) {

    let alert = UIAlertController(title: "Delete", message: "Delete This Room?", preferredStyle: .alert)
    let action = UIAlertAction(title: "Delete", style: .destructive, handler: deleteroom(alert:))
    let action2 = UIAlertAction(title: "Cancel", style: .cancel, handler: nil)

    alert.addAction(action)
    alert.addAction(action2)
    present(alert, animated: true, completion: nil)
}

func deleteroom(alert: UIAlertAction){

    let appDelegate = UIApplication.shared.delegate as! AppDelegate
    let db = appDelegate.persistentContainer.viewContext
    let request : NSFetchedRequest<NSFetchRequestResult> = NSFetchedRequest(entityName: "Room")
    let predicate = NSPredicate(format: "type=\\(roomtypelbl.text!)")

    request.predicate = predicate
    do{
        let result = try db.fetch(request) as! [NSManagedObject]
        if(result.count > 0){
            let object = result[0]

            db.delete(object)

            try db.save()

            let alert = UIAlertController(title: "Delete Successful", message: "Room Deleted!", preferredStyle: .alert)
            let action = UIAlertAction(title: "ok", style: .default, handler: roomdeleted(alert:))

            alert.addAction(action)
            present(alert, animated: true, completion: nil)
        }
    }
    catch let error as NSError{
        print(error)
    }
}

func roomdeleted(alert: UIAlertAction){
    let storyboard = UIStoryboard(name: "Main", bundle: nil)

    let Checkroom = storyboard.instantiateViewController(withIdentifier: "admin")

    present(Checkroom, animated: true, completion: nil)
}

func backtotab(alert: UIAlertAction){
    let storyboard = UIStoryboard(name: "Main", bundle: nil)

```

```

        let tabbar = storyboard.instantiateViewController(withIdentifier: "admin") as! UITabBarController

        present(tabbar,animated: true,completion: nil)
    }
}

```

## Ustatab3ViewController

```

//
// Ustatab3ViewController.swift
// Final
//
// Created by ZhenXi on 29/07/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//

import UIKit
import CoreData

class Ustatab3ViewController: UIViewController {

    var email : String = UserDefaults.standard.string(forKey: "email")!
    var array : [NSManagedObject] = []

    @IBOutlet weak var nameLabel: UILabel!
    @IBOutlet weak var emailbl: UILabel!
    @IBOutlet weak var genderbl: UILabel!
    @IBOutlet weak var birthdatebl: UILabel!
    @IBOutlet weak var imageView: UIImageView!

    override func viewDidLoad() {
        super.viewDidLoad()

        // Do any additional setup after loading the view.
    }

    override func viewWillAppear(_ animated: Bool) {
        let appDelegate = UIApplication.shared.delegate as! AppDelegate
        let db = appDelegate.persistentContainer.viewContext
        let request : NSFetchedRequest<NSFetchRequestResult> = NSFetchedRequest(entityName: "Useraccount")
        let predicate = NSPredicate(format: "email=\\(email.description)")

        request.predicate = predicate

        do{
            let result = try db.fetch(request) as! [NSManagedObject]

            if(result.count > 0){
                let tresult = result[0]
                nameLabel.text = tresult.value(forKey: "name") as! String
                emailbl.text = tresult.value(forKey: "email") as! String
                genderbl.text = tresult.value(forKey: "gender") as! String
                birthdatebl.text = tresult.value(forKey: "dateofbirth") as! String

                let image = tresult.value(forKey: "image") as? Data
                if(image != nil){
                    let imagec : UIImage = UIImage(data: image!)!
                    imageView.image = imagec
                }
            }
        }
    }
}

```

```

    }
}
catch let error as NSError{
    print(error)
}
}

override func prepare(for segue: UIStoryboardSegue, sender: Any?) {
    if(segue.identifier == "editprofile"){
        let destination = segue.destination as! usereditViewController

        let index = emailbl.text!

        destination.email = index.description
    }
}

@IBAction func logoutbtn(_ sender: Any) {
    let alert = UIAlertController(title: "LogOut", message: "Are You Want To LogOut?", preferredStyle: .alert)
    let action = UIAlertAction(title: "Yes", style: .default, handler: logout(alert:))
    let action2 = UIAlertAction(title: "Cancel", style: .cancel, handler: nil)

    alert.addAction(action)
    alert.addAction(action2)

    present(alert,animated: true,completion: nil)
}

func logout(alert : UIAlertAction){
    let storyboard = UIStoryboard(name: "Main", bundle: nil)

    let Login = storyboard.instantiateViewController(withIdentifier: "Login") as! UINavigationController

    present(Login,animated: true,completion: nil)
}
}

```

## usereditViewController

```

//
// usereditViewController.swift
// Final
//
// Created by ZhenXi on 31/07/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//

import UIKit
import CoreData

class usereditViewController: UIViewController ,UIPickerViewDelegate , UIPickerViewDataSource,
UIImagePickerControllerDelegate, UINavigationControllerDelegate{

    @IBOutlet weak var namelbl: UILabel!
    @IBOutlet weak var emailbl: UILabel!
    @IBOutlet weak var gendertxt: UITextField!
    @IBOutlet weak var dateofbirthlbl: UITextField!
    @IBOutlet weak var phonenumberbl: UITextField!
    @IBOutlet weak var imageView: UIImageView!

    var email : String?
    var datePicker : UIDatePicker?

```

```

var gendertype = ["Male", "Female"]
var selectedgender :String?

override func viewDidLoad() {
    super.viewDidLoad()

    createPicker()

    //onclick imageview
    let tapGestureRecognizer = UITapGestureRecognizer(target: self, action:
#selector(imageTapped(tapGestureRecognizer:)))

    imageView.isUserInteractionEnabled = true
    imageView.addGestureRecognizer(tapGestureRecognizer)

    //core data
    let appDelegate = UIApplication.shared.delegate as! AppDelegate

    let db = appDelegate.persistentContainer.viewContext

    let request : NSFetchRequest<NSFetchRequestResult> = NSFetchRequest(entityName: "Useraccount")

    let predicate = NSPredicate(format: "email!=\\(email!)")

    request.predicate = predicate

    do{
        let result = try db.fetch(request) as! [NSManagedObject]
        if(result.count > 0){
            let tresult = result[0]

            nameLabel.text = result.value(forKey: "name") as! String
            emailbl.text = result.value(forKey: "email") as! String
            gendertext.text = result.value(forKey: "gender") as! String
            dateofbirthbl.text = result.value(forKey: "dateofbirth") as! String
            phonebl.text = result.value(forKey: "phone") as! String
            let imagec = result.value(forKey: "image") as? Data
            if(imagec != nil){
                let image : UIImage = UIImage(data: imagec)!
                imageView.image = image
            }
        }
    }
    catch let error as NSError{
        print(error)
    }

    //date picker
    datePicker = UIDatePicker()
    datePicker?.datePickerMode = .date
    datePicker?.addTarget(self, action: #selector(usereditViewController.dateChanged(datePicker:)),
for: .valueChanged)

    let tapGesture = UITapGestureRecognizer(target: self, action:
#selector(usereditViewController.viewTapped(gestureRecognizer:)))

    view.addGestureRecognizer(tapGesture)

    dateofbirthbl.inputView = datePicker
}

@objc func imageTapped(tapGestureRecognizer: UITapGestureRecognizer)
{
    let tappedImage = tapGestureRecognizer.view as! UIImageView
    if(UIImagePickerController.isSourceTypeAvailable(UIImagePickerController.SourceType.photoLibrary)){
        let imag = UIImagePickerController()
        imag.delegate = self
    }
}

```

```

        imag.sourceType = UIImagePickerController.SourceType.photoLibrary;
        imag.allowsEditing = false
        present(imag, animated: true, completion: nil)
    }
}

func imagePickerController(_ picker: UIImagePickerController, didFinishPickingMediaWithInfo info:
[UIImagePickerController.InfoKey : Any]) {
    let selectedImage : UIImage = info[UIImagePickerController.InfoKey.originalImage] as! UIImage
    imageView.image=selectedImage
    self.dismiss(animated: true, completion: nil)
}

func imagePickerControllerDidCancel(_ picker: UIImagePickerController) {
    self.dismiss(animated: true, completion: nil)
}

@objc func viewTapped(gestureRecognizer : UITapGestureRecognizer){
    view.endEditing(true)
}

@objc func dateChanged(datePicker : UIDatePicker){
    let dateFormatter = DateFormatter()
    dateFormatter.dateFormat = "MM/dd/yyyy"
    dateofbirthlbl.text = dateFormatter.string(from: datePicker.date)
}

@IBAction func savebtn(_ sender: Any) {
    let appDelegate = UIApplication.shared.delegate as! AppDelegate
    let db = appDelegate.persistentContainer.viewContext
    let request : NSFetchRequest<NSFetchRequestResult> = NSFetchRequest(entityName: "Useraccount")
    let predicate = NSPredicate(format: "email=\\(emaillbl.text!)")

    request.predicate = predicate
    do{
        let result = try db.fetch(request) as! [NSManagedObject]

        if(result.count > 0){
            let object = result[0]

            let imgData : Data = imageView.image!.pngData()! as Data;

            object.setValue(gendertxt.text!, forKey: "gender")
            object.setValue(dateofbirthlbl.text!, forKey: "dateofbirth")
            object.setValue(phonelbl.text!, forKey: "phone")
            object.setValue(imgData, forKey: "image")

            try db.save()

            let alert = UIAlertController(title: "Update Successful", message: "Your Profile Is Saved!",
preferredStyle: .alert)
            let action = UIAlertAction(title: "ok", style: .default, handler: nil)

            alert.addAction(action)
            present(alert,animated: true,completion: nil)

        }
    }
    catch let error as NSError{
        print(error)
    }
}

//Gender Picker
func createPicker() {

```

```

    let picker = UIPickerView()
    picker.delegate = self

    gendertxt.inputView = picker
}

func numberOfComponents(in pickerView: UIPickerView) -> Int {
    return 1
}

func pickerView(_ pickerView: UIPickerView, numberOfRowsInComponent component: Int) -> Int {
    return gendertype.count
}

func pickerView(_ pickerView: UIPickerView, titleForRow row: Int, forComponent component: Int) -> String? {
    return gendertype[row]
}

func pickerView(_ pickerView: UIPickerView, didSelectRow row: Int, inComponent component: Int) {
    selectedgender = gendertype[row]
    gendertxt.text = selectedgender
}
}

```

## contactusViewController

```

//
// contactusViewController.swift
// Final
//
// Created by ZhenXi on 01/08/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//

```

```

import UIKit
import MapKit

```

```

class contactusViewController: UIViewController {

    @IBOutlet weak var mapView: MKMapView!

    override func viewDidLoad() {
        super.viewDidLoad()

        let location = CLLocationCoordinate2DMake(2.986704, 101.792639)
        let span = MKCoordinateSpan(latitudeDelta: 0.2, longitudeDelta: 0.2)
        let region = MKCoordinateRegion(center: location, span: span)
        mapView.setRegion(region, animated: true)

        let dropPin = MKPointAnnotation()
        dropPin.coordinate = location
        dropPin.title = "New Era University College"
        mapView.addAnnotation(dropPin)
    }

}

```

## adminloginViewController

```

//
// adminloginViewController.swift
// Final
//

```



```
// Created by ZhenXi on 02/08/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//
```

```
import UIKit
```

```
class adminloginViewController: UIViewController {
```

```
    @IBOutlet weak var admintxt: UITextField!
```

```
    override func viewDidLoad() {
        super.viewDidLoad()
```

```
        // Do any additional setup after loading the view.
    }
```

```
    @IBAction func loginbtn(_ sender: Any) {
```

```
        if(admintxt.text! == "Admin185"){
            let storyboard = UIStoryboard(name: "Main", bundle: nil)
```

```
            let admintabBar = storyboard.instantiateViewController(withIdentifier: "admin") as! UITabBarController
```

```
            present(admintabBar,animated: true,completion: nil)
```

```
        }
        else{
            let alert = UIAlertController(title: "Login Fail", message: "Code incorrect", preferredStyle: .alert)
            let action = UIAlertAction(title: "ok", style: .default, handler: nil)
```

```
            alert.addAction(action)
            present(alert,animated: true,completion: nil)
```

```
        }
```

```
    }
```

## UserViewRoomViewController

```
//
// UserViewRoomViewController.swift
// Final
//
// Created by ZhenXi on 02/08/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//
```

```
import UIKit
```

```
import CoreData
```

```
class UserViewRoomViewController: UIViewController {
```

```
    @IBOutlet weak var roomtypelbl: UILabel!
```

```
    @IBOutlet weak var quantitylbl: UILabel!
```

```
    @IBOutlet weak var pricelbl: UILabel!
```

```
    @IBOutlet weak var detaillbl: UITextView!
```

```
    @IBOutlet weak var imageView: UIImageView!
```

```
    var room : Room?
```

```
    override func viewDidLoad() {
        super.viewDidLoad()
```

```

        roomtypelbl.text = room!.type!
        quantitylbl.text = room!.quantity.description
        pricelbl.text = room!.price.description
        detaillbl.text = room!.details!
        let imagec = room!.image
        if(imagec != nil){
            let image : UIImage = UIImage(data: imagec!)
            imageView.image = image
        }
    }

    override func prepare(for segue: UIStoryboardSegue, sender: Any?) {
        if(segue.identifier == "order"){
            let destination = segue.destination as! OderRoomViewController

            destination.thisroom = room
        }
    }
}

```

## OrderRoomViewController

```

//
// OderRoomViewController.swift
// Final
//
// Created by ZhenXi on 02/08/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//

import UIKit
import CoreData

class OderRoomViewController: UIViewController {

    var thisroom : Room?
    var datePicker : UIDatePicker?

    @IBOutlet weak var roomtypelbl: UILabel!
    @IBOutlet weak var quantitylbl: UILabel!
    @IBOutlet weak var guest: UILabel!
    @IBOutlet weak var startname: UITextField!
    @IBOutlet weak var daylbl: UILabel!
    @IBOutlet weak var pricelbl: UILabel!
    @IBOutlet weak var showquantity: UILabel!
    @IBOutlet weak var datetxt: UITextField!
    @IBOutlet weak var enddate: UILabel!
    @IBOutlet weak var paymentbtn: UIButton!
    @IBOutlet weak var imageView: UIImageView!

    var day : Int = 0
    var quantity : Int = 0

    override func viewDidLoad() {
        super.viewDidLoad()

        paymentbtn.isEnabled = false

        roomtypelbl.text = thisroom!.type!
        quantitylbl.text = thisroom!.quantity.description
        guest.text = thisroom!.guest.description
    }
}

```

```

    daylbl.text = day.description

    let imagec = thisroom!.image
    if(imagec != nil){
        let image : UIImage = UIImage(data: imagec!)!
        imageView.image = image
    }

    //date picker
    datePicker = UIDatePicker()
    datePicker?.datePickerMode = .date
    datePicker?.minimumDate = Date()
    datePicker?.addTarget(self, action: #selector(OderRoomViewController.dateChanged(datePicker:)),
for: .valueChanged)

    let tapGesture = UITapGestureRecognizer(target: self, action:
#selector(OderRoomViewController.viewTapped(gestureRecognizer:)))

    view.addGestureRecognizer(tapGesture)

    datetxt.inputView = datePicker
}

@objc func viewTapped(gestureRecognizer : UITapGestureRecognizer){
    view.endEditing(true)
}

@objc func dateChanged(datePicker : UIDatePicker){
    let dateFormatter = DateFormatter()
    dateFormatter.dateFormat = "MM/dd/yyyy"
    datetxt.text = dateFormatter.string(from: datePicker.date)

    let endday = Calendar.current.date(byAdding: .day, value: day, to: datePicker.date)

    enddate.text = dateFormatter.string(from: endday!)
}

@IBAction func addbtn(_ sender: Any) {
    if(day != 14 && datetxt.text != ""){
        day+=1
        daylbl.text = day.description
        pricelbl.text = ((thisroom!.price * Float(day)) * Float(quantity)).description

        let endday = Calendar.current.date(byAdding: .day, value: day, to: datePicker!.date)

        let dateFormatter = DateFormatter()
        dateFormatter.dateFormat = "MM/dd/yyyy"
        enddate.text = dateFormatter.string(from: endday!)

        if(day == 0 || quantity == 0){
            paymentbtn.isEnabled = false
        }
        else{
            paymentbtn.isEnabled = true
        }
    }
    else{
        if(day == 14){
            let alert = UIAlertController(title: "Max Days Reach!!", message: "Max Days Of Booking Is 14 Days",
preferredStyle: .alert)
            let action = UIAlertAction(title: "ok", style: .default, handler: nil)

            alert.addAction(action)
            present(alert,animated: true,completion: nil)
        }
        if(datetxt.text! == ""){

```

```

        let alert = UIAlertController(title: "Date is Blank!!", message: "Please Select Date First",
preferredStyle: .alert)
        let action = UIAlertAction(title: "ok", style: .default, handler: nil)

        alert.addAction(action)

        present(alert,animated: true,completion: nil)
    }
}

@IBAction func minbtn(_ sender: Any) {
    if(day != 0){
        day-=1
        daylbl.text = day.description
    }
    pricelbl.text = ((thisroom!.price * Float(day)) * Float(quantity)).description

    let endday = Calendar.current.date(byAdding: .day, value: day, to: datePicker!.date)

    let dateFormatter = DateFormatter()
    dateFormatter.dateFormat = "MM/dd/yyyy"
    enddate.text = dateFormatter.string(from: endday!)

    if(day == 0 || quantity == 0){
        paymentbtn.isEnabled = false
    }
    else{
        paymentbtn.isEnabled = true
    }
}

@IBAction func addquantity(_ sender: Any) {
    if(quantity != 3){
        quantity+=1
        showquantity.text = quantity.description
        pricelbl.text = ((thisroom!.price * Float(day)) * Float(quantity)).description

        if(day == 0 || quantity == 0){
            paymentbtn.isEnabled = false
        }
        else{
            paymentbtn.isEnabled = true
        }
    }
    else{
        let alert = UIAlertController(title: "Max Quantity Reach!", message: "Max Quantity Of Rooms Booking Is 3
Rooms", preferredStyle: .alert)
        let action = UIAlertAction(title: "ok", style: .default, handler: nil)

        alert.addAction(action)
        present(alert,animated: true,completion: nil)
    }
}

@IBAction func minquantity(_ sender: Any) {
    if (quantity != 0) {
        quantity-=1
        showquantity.text = quantity.description
        pricelbl.text = ((thisroom!.price * Float(day)) * Float(quantity)).description

        if(day == 0 || quantity == 0){
            paymentbtn.isEnabled = false
        }
        else{

```

```

        paymentbtn.isEnabled = true
    }
}

override func prepare(for segue: UIStoryboardSegue, sender: Any?) {
    if(segue.identifier == "payment"){
        let destination = segue.destination as! paymentViewController

        let index = priceLbl.text!.description
        let days = dayLbl.text!

        destination.total = index.description
        destination.bookingroom = thisroom
        destination.day = Int16(days)
        destination.date = dateTxt.text! + " To " + endDate.text!
        destination.quantity = Int16(showQuantity.text!)

    }
}

```

## paymentViewController

```

//
// paymentViewController.swift
// Final
//
// Created by ZhenXi on 02/08/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//

import UIKit
import CoreData

class paymentViewController: UIViewController {

    @IBOutlet weak var totalPrice: UILabel!

    var email : String = UserDefaults.standard.string(forKey: "email")!
    var bookingroom : Room?
    var total : String?
    var day : Int16?
    var date : String?
    var quantity : Int16?

    @IBOutlet weak var roomTypeLbl: UILabel!
    @IBOutlet weak var dayLbl: UILabel!
    @IBOutlet weak var dateLbl: UILabel!
    @IBOutlet weak var quantityLbl: UILabel!

    @IBOutlet weak var ictxt: UITextField!
    @IBOutlet weak var nameTxt: UITextField!
    @IBOutlet weak var ages: UITextField!
    @IBOutlet weak var phoneTxt: UITextField!
    @IBOutlet weak var cvvTxt: UITextField!
    @IBOutlet weak var emailLbl: UILabel!

    override func viewDidLoad() {
        super.viewDidLoad()
    }
}

```

```

totalprice.text = "RM " + total!.description
roomtypelbl.text = bookingroom!.type!
daylbl.text = day!.description
emaillbl.text = email!.description
datelbl.text = date!.description
quantitylbl.text = quantity!.description
}

@IBAction func paybtn(_ sender: Any) {
    let ic = ictxt.text!
    let name = nametxt.text!
    let age = ages.text!
    let phone = phonetxt.text!
    let cvv = cvvtxt.text!

    if(ic == "" || name == "" || age == "" || phone == "" || cvv == ""){
        let alert = UIAlertController(title: "Payment Fail", message: "Please Fill In All The Blank",
preferredStyle: .alert)
        let action = UIAlertAction(title: "ok", style: .default, handler: nil)

        alert.addAction(action)
        present(alert,animated: true,completion: nil)
    }
    else{
        let appDelegate = UIApplication.shared.delegate as! AppDelegate
        let db = appDelegate.persistentContainer.viewContext
        let entity = NSEntityDescription.entity(forEntityName: "Booked", in: db)
        let object = NSManagedObject(entity: entity!, insertInto: db) as! Booked

        object.email = emaillbl.text!
        object.day = day!
        object.ic = ictxt.text!
        object.phone = phonetxt.text!
        object.room = roomtypelbl.text!
        object.price = totalprice.text!
        object.date = datelbl.text!
        object.quantity = quantity!
        object.image = bookingroom!.image

        do{
            try db.save()
            update()

            let alert = UIAlertController(title: "Payment Successful", message: "Payment Done. Please Check Your
Booking History for details", preferredStyle: .alert)
            let action = UIAlertAction(title: "ok", style: .default, handler: backtotab(alert:))

            alert.addAction(action)
            present(alert,animated: true,completion: nil)
        }
        catch let error as NSError{
            print(error)
        }
    }
}

func update(){
    let appDelegate = UIApplication.shared.delegate as! AppDelegate
    let db = appDelegate.persistentContainer.viewContext
    let request : NSFetchedRequest<NSFetchRequestResult> = NSFetchedRequest(entityName: "Room")
    let predicate = NSPredicate(format: "type=\\(roomtypelbl.text!)")

    request.predicate = predicate
    do{
        let result = try db.fetch(request) as! [NSManagedObject]
    }
}

```

```

        if(result.count > 0){
            let object = result[0]
            let oldquantity = object.value(forKey: "quantity") as! Int16
            let newquantity = oldquantity - quantity!

            print(newquantity.description + "Here")
            object.setValue(newquantity, forKey: "quantity")

            try db.save()
        }
    }
    catch let error as NSError{
        print(error)
    }
}

func backtotab(alert: UIAlertAction){
    let storyboard = UIStoryboard(name: "Main", bundle: nil)

    let userTabbar = storyboard.instantiateViewController(withIdentifier: "user") as! UITabBarController

    present(userTabbar, animated: true, completion: nil)
}
}

```

## viewhistoryViewController

```

//
// viewhistroyViewController.swift
// Final
//
// Created by ZhenXi on 03/08/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//

import UIKit
import CoreData

class viewhistroyViewController: UIViewController {

    var history : Booked?

    @IBOutlet weak var roomlbl: UILabel!
    @IBOutlet weak var datelbl: UILabel!
    @IBOutlet weak var dayslbl: UILabel!
    @IBOutlet weak var totallbl: UILabel!
    @IBOutlet weak var quantitylbl: UILabel!
    @IBOutlet weak var imageView: UIImageView!

    override func viewDidLoad() {
        super.viewDidLoad()

        roomlbl.text = history!.room!
        datelbl.text = history!.date!
        dayslbl.text = history!.day.description + " Days"
        totallbl.text = history!.price!
        quantitylbl.text = history!.quantity.description + " Room"

        let image : UIImage = UIImage(data: history!.image!)?
        imageView.image = image
    }
}

```

```
}
```

## adminaccountViewController

```
//  
// adminaccountViewController.swift  
// Final  
//  
// Created by ZhenXi on 03/08/2019.  
// Copyright © 2019 ZhenXi. All rights reserved.  
//  
  
import UIKit  
import CoreData  
  
class adminaccountViewController: UIViewController, UIImagePickerControllerDelegate,  
UINavigationControllerDelegate, UIPickerViewDelegate, UIPickerViewDataSource{  
  
    @IBOutlet weak var adminnametxt: UITextField!  
    @IBOutlet weak var imageView: UIImageView!  
    @IBOutlet weak var gendertxt: UITextField!  
    @IBOutlet weak var dateofbirthtxt: UITextField!  
    @IBOutlet weak var phonetxt: UITextField!  
    @IBOutlet weak var emailtxt: UILabel!  
  
    var adminemail : String?  
    var adminname : String?  
    var gendertype = ["Male", "Female"]  
    var selectedgender :String?  
    var datePicker : UIDatePicker?  
  
    override func viewDidLoad() {  
        super.viewDidLoad()  
  
        adminnametxt.text = adminname!  
  
        createPicker()  
  
        //onclick imageView  
        let tapGestureRecognizer = UITapGestureRecognizer(target: self, action:  
#selector(imageTapped(tapGestureRecognizer:)))  
        imageView.isUserInteractionEnabled = true  
        imageView.addGestureRecognizer(tapGestureRecognizer)  
  
        //date picker  
        datePicker = UIDatePicker()  
        datePicker?.datePickerMode = .date  
        datePicker?.addTarget(self, action: #selector(usereditViewController.dateChanged(datePicker:)),  
for: .valueChanged)  
  
        let tapGesture = UITapGestureRecognizer(target: self, action:  
#selector(usereditViewController.viewTapped(gestureRecognizer:)))  
  
        view.addGestureRecognizer(tapGesture)  
  
        dateofbirthtxt.inputView = datePicker  
  
        //core data  
        let appDelegate = UIApplication.shared.delegate as! AppDelegate  
        let db = appDelegate.persistentContainer.viewContext  
        let request : NSFetchedRequest<NSFetchedRequestResult> = NSFetchedRequest(entityName: "Useraccount")  
        let predicate = NSPredicate(format: "email=\\(adminemail!)")
```



```

request.predicate = predicate

do{
    let result = try db.fetch(request) as! [NSObject]
    if(result.count > 0){
        let object = result[0]
        adminnametxt.text = object.value(forKey: "name") as! String
        emailtxt.text = object.value(forKey: "email") as! String
        gendertxt.text = object.value(forKey: "gender") as! String
        dateofbirthtxt.text = object.value(forKey: "dateofbirth") as! String
        phonetxt.text = object.value(forKey: "phone") as! String
        let imagec = object.value(forKey: "image") as? Data
        if(imagec != nil){
            let image : UIImage = UIImage(data: imagec!)
            imageView.image = image
        }
    }
}

catch let error as NSError{
    print(error)
}
}

@objc func imageTapped(tapGestureRecognizer: UITapGestureRecognizer)
{
    let tappedImage = tapGestureRecognizer.view as! UIImageView
    if(UIImagePickerController.isSourceTypeAvailable(UIImagePickerController.SourceType.photoLibrary)){
        let imag = UIImagePickerController()
        imag.delegate = self
        imag.sourceType = UIImagePickerController.SourceType.photoLibrary;
        imag.allowsEditing = false
        present(imag, animated: true, completion: nil)
    }
}

func imagePickerController(_ picker: UIImagePickerController, didFinishPickingMediaWithInfo info:
[UIImagePickerController.InfoKey : Any]) {
    let selectedImage : UIImage = info[UIImagePickerController.InfoKey.originalImage] as! UIImage
    imageView.image=selectedImage
    self.dismiss(animated: true, completion: nil)
}

func imagePickerControllerDidCancel(_ picker: UIImagePickerController) {
    self.dismiss(animated: true, completion: nil)
}

@IBAction func savebtn(_ sender: Any) {
    let appDelegate = UIApplication.shared.delegate as! AppDelegate
    let db = appDelegate.persistentContainer.viewContext
    let request : NSFetchRequest<NSFetchRequestResult> = NSFetchRequest(entityName: "Useraccount")
    let predicate = NSPredicate(format: "email!=\\(adminemail!)")

    request.predicate = predicate

    do{
        let result = try db.fetch(request) as! [NSObject]
        if (result.count > 0) {
            let object = result[0]

            let imgData : Data = imageView.image!.pngData()! as Data;

            object.setValue(adminnametxt.text!, forKey: "name")
            object.setValue(gendertxt.text!, forKey: "gender")
            object.setValue(dateofbirthtxt.text!, forKey: "dateofbirth")
            object.setValue(phonetxt.text!, forKey: "phone")
            object.setValue(imgData, forKey: "image")
        }
    }
}

```

```

        try db.save()
    }
    let alert = UIAlertController(title: "Save Successful", message: "Data Updated!", preferredStyle: .alert)
    let action = UIAlertAction(title: "ok", style: .default, handler: nil)

    alert.addAction(action)
    present(alert, animated: true, completion: nil)
}
catch let error as NSError{
    print(error)
}
}

//Gender Picker
func createPicker() {

    let picker = UIPickerView()
    picker.delegate = self

    gendertxt.inputView = picker
}

func numberOfComponents(in pickerView: UIPickerView) -> Int {
    return 1
}

func pickerView(_ pickerView: UIPickerView, numberOfRowsInComponent component: Int) -> Int {
    return gendertype.count
}

func pickerView(_ pickerView: UIPickerView, titleForRow row: Int, forComponent component: Int) -> String? {
    return gendertype[row]
}

func pickerView(_ pickerView: UIPickerView, didSelectRow row: Int, inComponent component: Int) {
    selectedgender = gendertype[row]
    gendertxt.text = selectedgender
}

@objc func viewTapped(gestureRecognizer : UITapGestureRecognizer){
    view.endEditing(true)
}

@objc func dateChanged(datePicker : UIDatePicker){
    let dateFormatter = DateFormatter()
    dateFormatter.dateFormat = "MM/dd/yyyy"
    dateofbirthtxt.text = dateFormatter.string(from: datePicker.date)
}
}

```

## AdminSigninViewController

```

//
// AdminSigninViewController.swift
// Final
//
// Created by ZhenXi on 05/08/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//

import UIKit
import CoreData

class AdminSigninViewController: UIViewController {

```

```

@IBOutlet weak var emailtxt: UITextField!
@IBOutlet weak var passwordtxt: UITextField!

override func viewDidLoad() {
    super.viewDidLoad()

}

@IBAction func loginbtn(_ sender: Any) {
    let appDelegate = UIApplication.shared.delegate as! AppDelegate
    let db = appDelegate.persistentContainer.viewContext
    let request : NSFetchedRequest<NSFetchedRequestResult> = NSFetchedRequest(entityName: "Useraccount")
    let predicate = NSPredicate(format: "email = \"%(emailtxt.text!)\"")
    request.predicate = predicate

    do{
        let result = try db.fetch(request) as! [NSManagedObject]
        if(result.count > 0){
            let account = result[0] as! Useraccount
            if(account.password == passwordtxt.text! && account.password == "admin"){

                UserDefaults.standard.set(emailtxt.text!, forKey: "adminemail")

                let storyboard = UIStoryboard(name: "Main", bundle: nil)

                let admin tabBar = storyboard.instantiateViewController(withIdentifier: "adminlogin") as! UIViewController

                present(adminTabBar,animated: true,completion: nil)
            }
            else{
                let alert = UIAlertController(title: "Fail", message: "Email Or Password is Wrong",
                preferredStyle: .alert)

                let action = UIAlertAction(title: "OK", style: .default, handler: nil)

                alert.addAction(action)
                present(alert,animated: true,completion: nil)
            }
        }
    }
    catch let error as NSError{
        print(error)
    }
}

```

## Ustatab2ViewController

```

//
// Ustatab2ViewController.swift
// Final
//
// Created by ZhenXi on 29/07/2019.
// Copyright © 2019 ZhenXi. All rights reserved.
//

import UIKit
import CoreData

class Ustatab2ViewController: UIViewController, UITableViewDelegate, UITableViewDataSource {

```

```

var email : String = UserDefaults.standard.string(forKey: "email")!
var array : [NSManagedObject] = []

@IBOutlet weak var tbview: UITableView!

override func viewDidLoad() {
    super.viewDidLoad()

    //toremove
    //UserDefaults.standard.removeObject(forKey: "email")
}

override func viewWillAppear(_ animated: Bool) {
    let appDelegate = UIApplication.shared.delegate as! AppDelegate
    let db = appDelegate.persistentContainer.viewContext
    let request : NSFetchedRequest<NSFetchRequestResult> = NSFetchedRequest(entityName: "Booked")
    let predicate = NSPredicate(format: "email=\\(email.description)")
    request.predicate = predicate

    do{
        let result = try db.fetch(request) as! [NSManagedObject]
        if(result.count > 0){
            array = result
            tbview.reloadData()
        }
    }
    catch let error as NSError{
        print(error)
    }
}

func tableView(_ tableView: UITableView, numberOfRowsInSection section: Int) -> Int {
    return array.count
}

func tableView(_ tableView: UITableView, cellForRowAt indexPath: IndexPath) -> UITableViewCell {
    let cell = tableView.dequeueReusableCell(withIdentifier: "history")

    let object = array[indexPath.row] as! Booked

    cell?.textLabel?.textColor = UIColor.white
    cell?.detailTextLabel?.textColor = UIColor.white

    cell?.textLabel?.text = "Room : \\(object.room!)"
    cell?.detailTextLabel?.text = "Date :\\(object.date!)"
    let image : UIImage = UIImage(data: object.image!)!
    cell?.imageView?.image = image

    return cell!
}

override func prepare(for segue: UIStoryboardSegue, sender: Any?) {
    if(segue.identifier == "historydetail"){
        let destination = segue.destination as! viewhistroyViewController

        let index = tbview.indexPathForSelectedRow

        destination.history = array[index!.row] as! Booked
    }
}
}

```