```swift
//
//  ViewController.swift
//  BillsDBApp
//
//  Created by Bill Skrzypczak on
2/9/20.
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//

import UIKit
import Foundation
import CoreData

class ViewController: UIViewController
{

    var dataManager :
NSManagedObjectContext!
    var listArray = [NSManagedObject]
()


    @IBAction func saveRecordButton(_
sender: UIButton) {

        let newEntity =
```

```swift
NSEntityDescription.insertNewObject(forEntityName:"Item", into: dataManager)

newEntity.setValue(enterGuitarDescription.text!, forKey: "about")

        do{
            try self.dataManager.save()

listArray.append(newEntity)
        } catch{
            print ("Error saving data")
        }

displayDataHere.text?.removeAll()

enterGuitarDescription.text?.removeAll()

        fetchData()


    }
```

```swift
    @IBAction func
deleteRecordButton(_ sender: UIButton)
{

        let deleteItem =
enterGuitarDescription.text!
        for item in listArray {
            if item.value(forKey:
"about") as! String == deleteItem {

dataManager.delete(item)
            }
            do {
                try
self.dataManager.save()
            } catch {
                print ("Error deleting
data")
            }

displayDataHere.text?.removeAll()

enterGuitarDescription.text?.removeAll
()

            fetchData()
        }

    }
```

```swift
    @IBOutlet var
enterGuitarDescription: UITextField!


    @IBOutlet var displayDataHere:
UILabel!



    override func viewDidLoad() {
        super.viewDidLoad()

        let appDelegate =
UIApplication.shared.delegate as!
AppDelegate
        dataManager =
appDelegate.persistentContainer.viewCo
ntext

displayDataHere.text?.removeAll()
        fetchData()
    }
```

```swift
    func fetchData() {
        let fetchRequest :
NSFetchRequest<NSFetchRequestResult> =
NSFetchRequest(entityName: "Item")
        do {
            let result = try
dataManager.fetch(fetchRequest)
            listArray = result as!
[NSManagedObject]
            for item in listArray {

                let product =
item.value(forKey: "about") as! String
                displayDataHere.text!
+= product

            }
        } catch {
            print ("Error retrieving
data")
        }
    }


}
```