

**A** **PROJECT** **PRESENTATION** **ON**

**QuickBuy** **(Online** **Shopping** **Application)** **SUBMITTED** **BY** **Group** **No** **-** **13**

KURBANALI A MASU - 18082221021

**B.Sc. (CA&IT)** **–** **VI** **U16A5PRII** **–** **Industrial** **Project** **-** **II**

**PROJECT** **INTERNAL** **GUIDE** Mr. Jaimit R Patel

**SUBMITTED** **TO** **Department** **of** **Computer** **Science,**

**Ganpat** **Vidyanagar** **-** **384012**

**PROJECT** **PROFILE**

|  |  |
| --- | --- |
| **Project** **Name** | **QuickBuy** |
| **Objective** | E-Commerce drives profitable growth by expanding customer reach, reducing cost-to-serve, and creating differentiated customer experiences |
| **Front** **End** **Tool** | Swift 5.3 |
| **Back** **End** **Tool** | Firebase |
| **Other** **Tools** | XCode (12.1) , Algolia |
| **Platform** **of** **application** | Mobile (IOS) |
| **Internal** **Project** **Guide** | Mr. Jaimit R Patel |
| **Time** **Duration** | 120 Days |
| **Submitted** **to** | Department of computer science, GANPAT UNIVERSITY |

**EXISTING** **SYSTEM**

• In the existing system, customer have to go at store and then buy the products.

• In the traditional type of system, customer have limited options of the products while in the E-Commerce application customer have huge amount of options.

• If we have to buy various types of products in traditional type of system, we have to visit different stores.

**NEED** **FOR** **NEW** **SYSTEM**

• Customers can spend less time to shop for what they want. They can easily browse through many items at a time and buy what they like.

• In E-commerce application, customer can buy cheaper products compare to traditional store.

• E-Commerce application allows you to provide more information about your products to customer.

**HARDWARE** **REQUIREMENT**

|  |  |
| --- | --- |
| **SERVER** **SIDE** | |
| System | Any Web-browser supporting system |
| Disk Space | 1GB Free space Recommended |

|  |  |
| --- | --- |
| **CLIENT** **SIDE** | |
| System | Any IOS Mobile device |
| RAM | 2GB or more |
| Disk Space | 1GB or more |

**SOFTWARE** **REQUIREMENT**

|  |  |
| --- | --- |
| **SERVER** **SIDE** | |
| Web Browser | Any web browser for Firebase SDK |

|  |  |
| --- | --- |
| **CLIENT** **SIDE** | |
| IOS Version | IOS version 13 or later |

**USERS** **OF** **THE** **APPLICATION**

• CUSTOMER

• ADMIN

**CUSTOMER** **MODULE** **SPECIFICATIONS**

• REGISTRATION

• LOGIN

• SEARCH ITEM

• MANAGE CART

• MANAGE ORDERS

• MANAGE PROFILE

**ADMIN** **MODULE** **SPECIFICATIONS**

• LOGIN

• ADD ITEMS

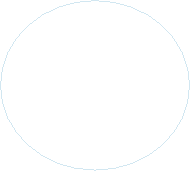
• UPDATE ITEM

• DISABLE ITEM

• MANAGE CUSTOMER’S ORDERS

**SYSTEM** **FLOW-CHART**

START



Yes Is Admin

?

Admin Login No

Registered No No ?

Want to No Register ?

Valid Details ?

Yes Yes

Login Registration

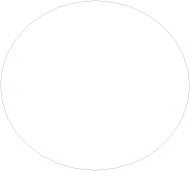
Yes No

Valid Details ?

Yes

A U X

A U X



Add Item

Update Item

Disable Item

Manage Customer’s Orders

Search Item

Manage Cart

Manage Orders

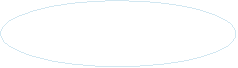
Manage Profile

C

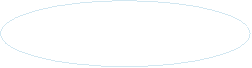
Logout

END

First name



|  |  |
| --- | --- |
|  | Orders |
|  |



Email

Full **E-R** **DIAGRAM** Address Object

ID

Image Name

Name

Full Name

Is Admin

Purchased Item Ids

|  |  |
| --- | --- |
| User | |
| 1 | 1 |

Onboard

Have

Order Total Amount

Object Id

Owner ID

Category

1

Object ID

Have

Have 1 Basket 1

Have Object ID

Order Total

Amount M

Is 1 M

Delivered Have

M

Description

M

Items Price

Order Owner ID ID

Order Item Ids

Category ID

Image Links

Name

**DART** **FLOW** **DIAGRAM** **Context** **-** **Level** **Diagram**

QuickBuy

End Users (Online Admin Shopping app)

LOGIN

SEARCH ITEM

MANAGE CART

MANAGE ORDERS

MANAGE PROFILE

LOGIN

ADD ITEMS

UPDATE ITEM

DISABLE ITEM

MANAGE CUSTOMER’S ORDERS

**1** **-** **Level** **DFD**

|  |  |  |  |
| --- | --- | --- | --- |
| End User | | | E-mail & Password |
| Valid or Invalid |
|  |  | | |
|  | Registration Details  Registration Message  Search Item Name  Item Details  Cart Id  Cart details  Order ID | |
|  | Order Details  User Details | |
| User ID | | |

Login

Manage Registers

Search

Item

Manage

Cart

Manage

Orders

Manage

Profile

E-mail & Password

Valid or Invalid

Registration Details

Registration Message

Search Item Name

Item Details

Cart Id

Cart details

Order ID

Order Details

User Details

User ID

Firebase Auth

Firebase Auth

Items Collection

Basket Collection

Orders Collection

User Collection

**1** **-** **Level** **DFD** **:** **Admin**

|  |  |  |  |
| --- | --- | --- | --- |
| Admin | | | E-mail & Password |
| Valid or Invalid |
|  |  | | |
|  | Item details  response  Item details  response  Item details | |
|  | response  response  Order details | |

Login

Add

Item

Update

Item

Disable

Item

Manage

Orders

E-mail & Password

Valid or Invalid

Item details

response

Item details

response

Item details

response

response

Order details

Firebase Auth &

User Collection

Items Collection

Items Collection

Items Collection

Orders Collection

**DATA** **DICTIONARY** 1. Users Collection

üUser collection stores the data of the users of application

|  |  |  |
| --- | --- | --- |
| **Collection** | **Documents** | **Fields** |
| Users | Document Name (String) | Email : String  First Name : String  Last Name : String  Full Address : String  Full Name : String  Is Admin : Bool  Object Id : String  Category Id: String  On Board : Bool  Purchase Item Ids : Array (String) |

Object Id 🡪 Object Id is a document name in each user’s document field.

Category Id🡪 Category Id refers the category of item from category collection.

On Board🡪 On board shows the have finished registration or not.

2. Category Collection

üCategory collection stores the items master type from where we can categories our items

|  |  |  |
| --- | --- | --- |
| **Collection** | **Documents** | **Fields** |
| Category | Document Name (String) | Name : String  Image Name : String  Object Id : String |

Object Id 🡪 Object Id is a document name in each category’s document field

3. Items Collection

üItems collection stores the data of the items

|  |  |  |
| --- | --- | --- |
| **Collection** | **Documents** | **Fields** |
| Items | Document Name (String) | Name : String  Category Id : String  Description : String  Image Links : Array(String)  Object Id : String  Price : Double  IsActive : Bool |

Object Id 🡪 Object Id is a document name in each Item’s document field

Is Active 🡪 Is active shows the current item is active or not

4. Basket Collection

üBasket collection stores the data of the basket per user

|  |  |  |
| --- | --- | --- |
| **Collection** | **Documents** | **Fields** |
| Basket | Document Name (String) | Item Ids : Array (String)  Object Id : String  Owner Id : String |

Object Id 🡪 Object Id is a document name in each basket’s document field

Owner Id 🡪 Owner id represents the owner of the current basket

5. Orders Collection

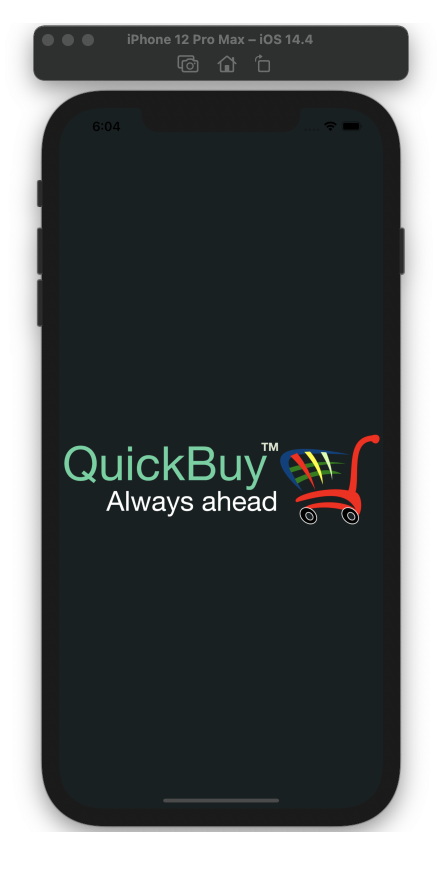
üOrders collection stores the data of the all user’s all orders.

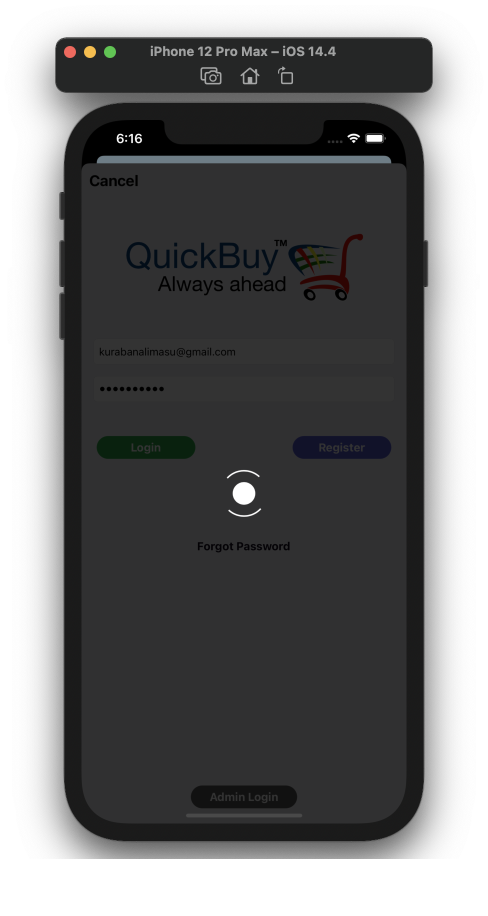
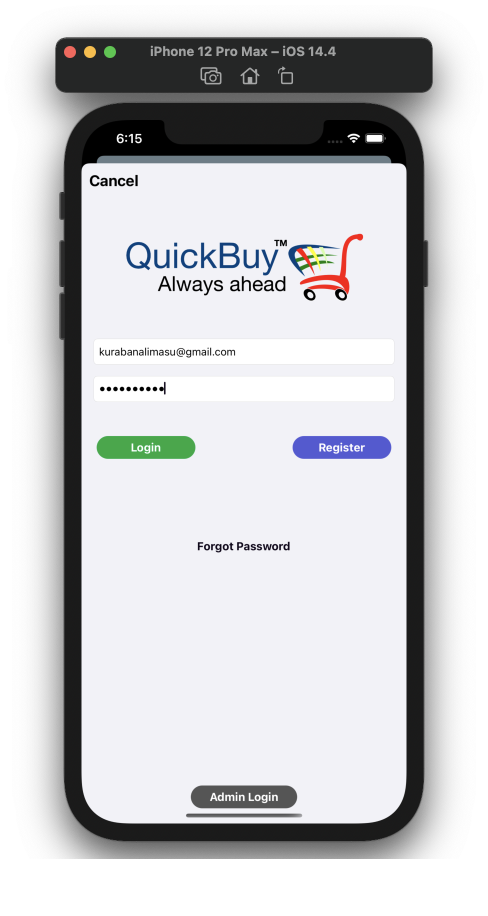
|  |  |  |
| --- | --- | --- |
| **Collection** | **Documents** | **Fields** |
| Orders | Document Name (String) | Is Delivered : Bool  Order Id : String  Order Total Amount : Double  Order Item Ids : Array (String)  Owner Id : String |

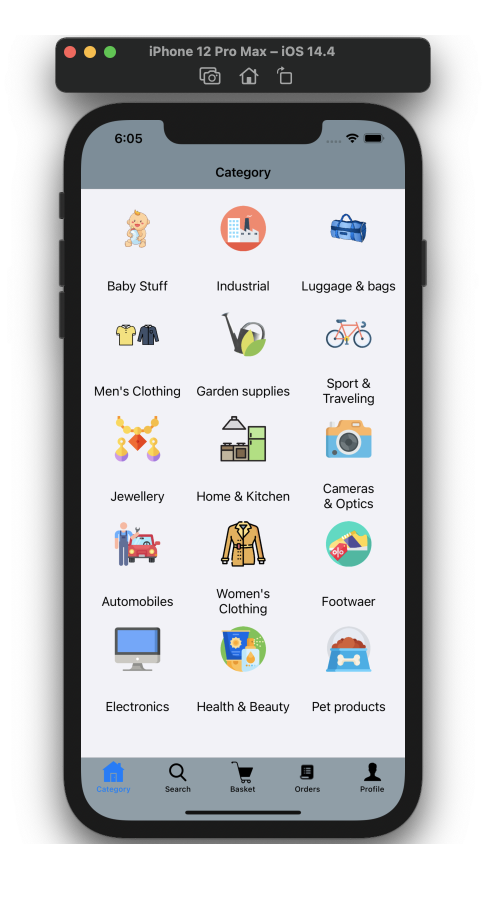
Is Delivered 🡪 Is delivered shows the status of order delivery

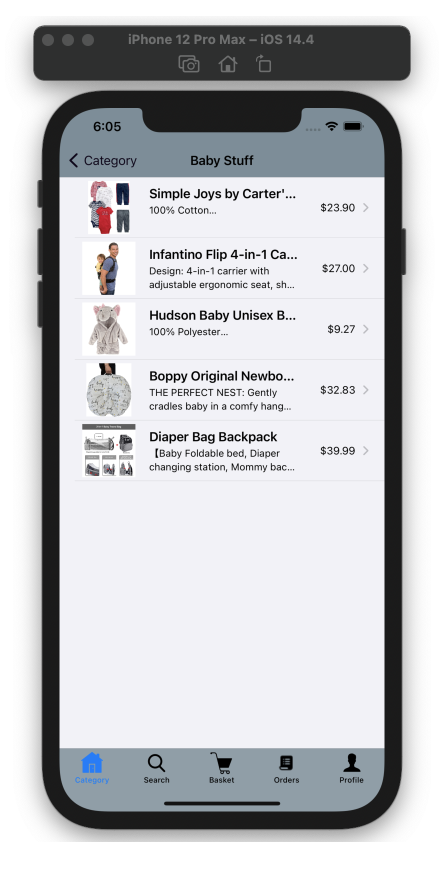
Order Id 🡪Order Id is a document name in each Order’s document field

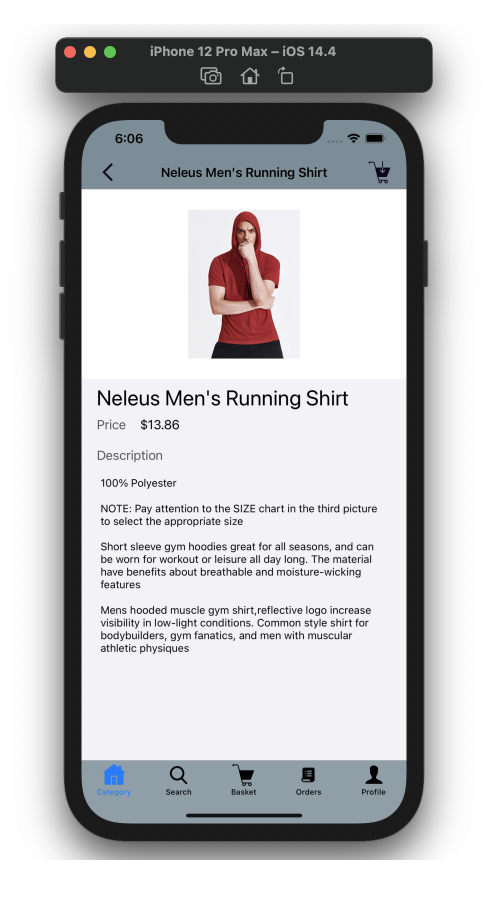
**USER** **SIDE** **DESIGN**

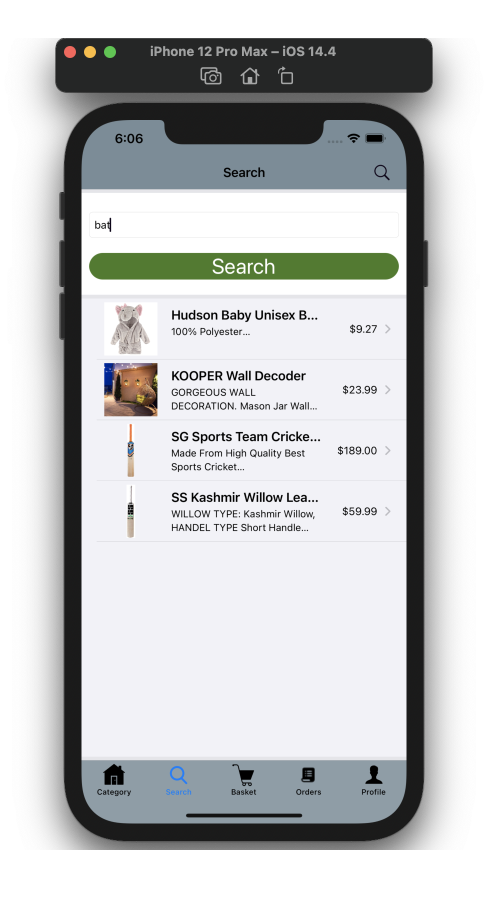
• Splash Screen

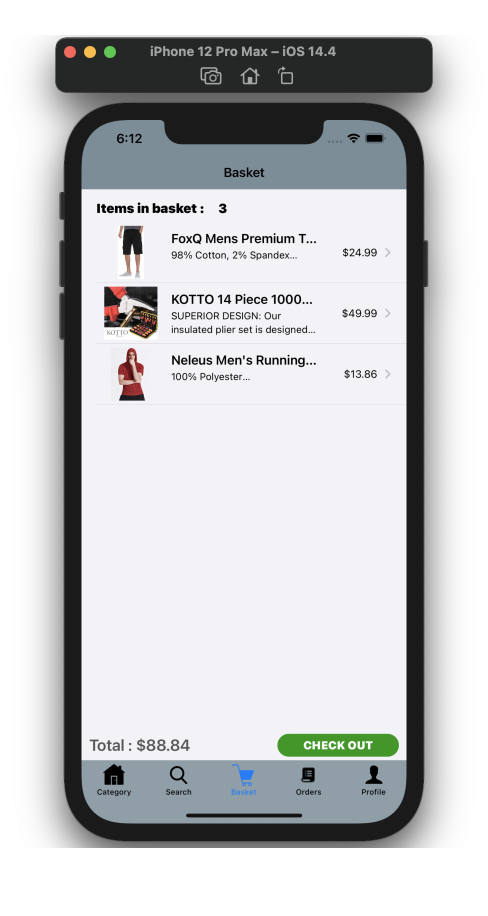
• Login Screen • Login Screen loading indicator

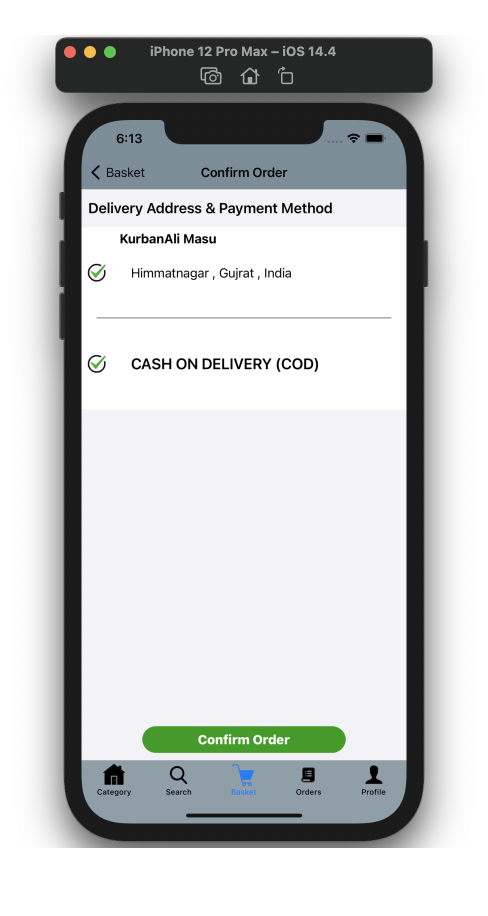
• Category view screen

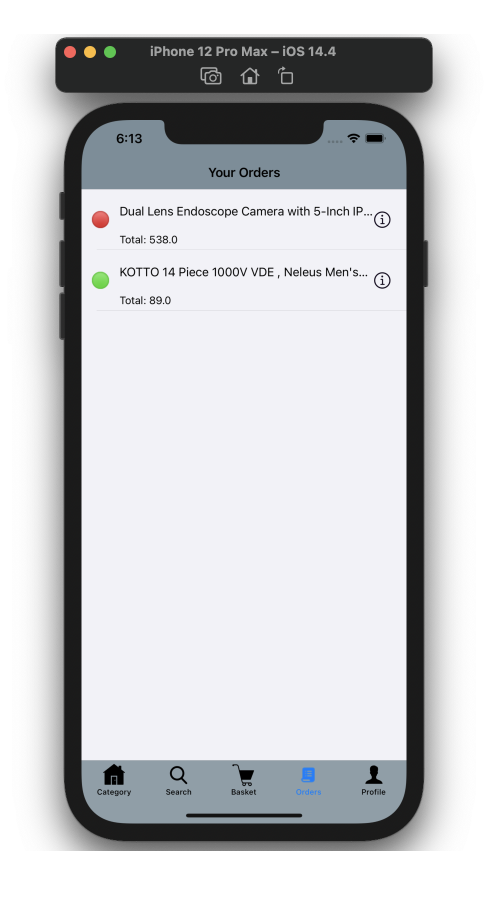
• Items in category view screen

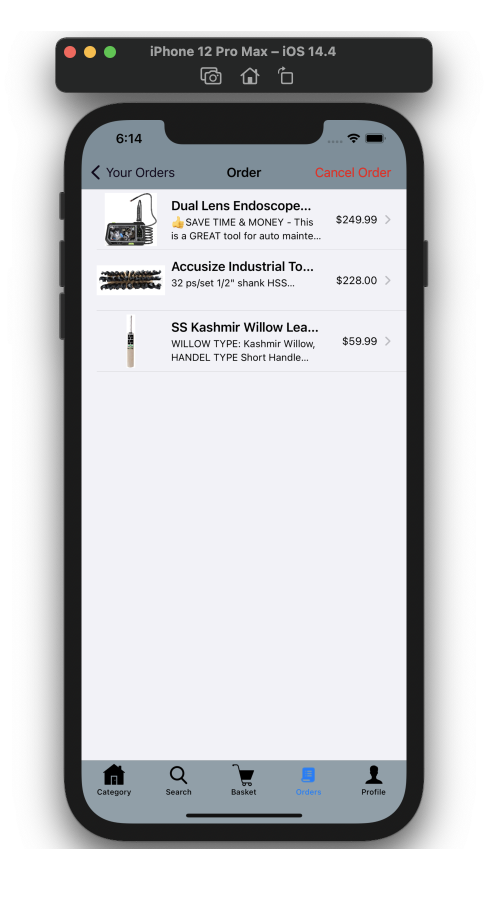
• Items view screen

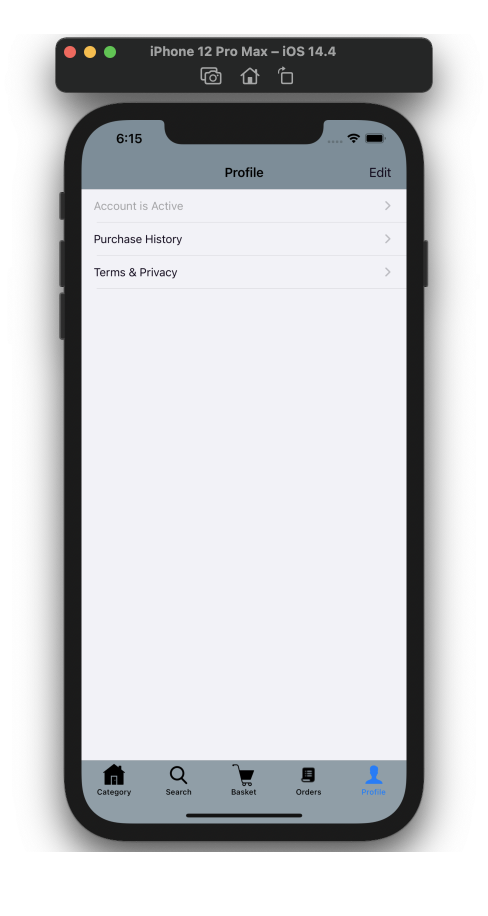
• Search view screen

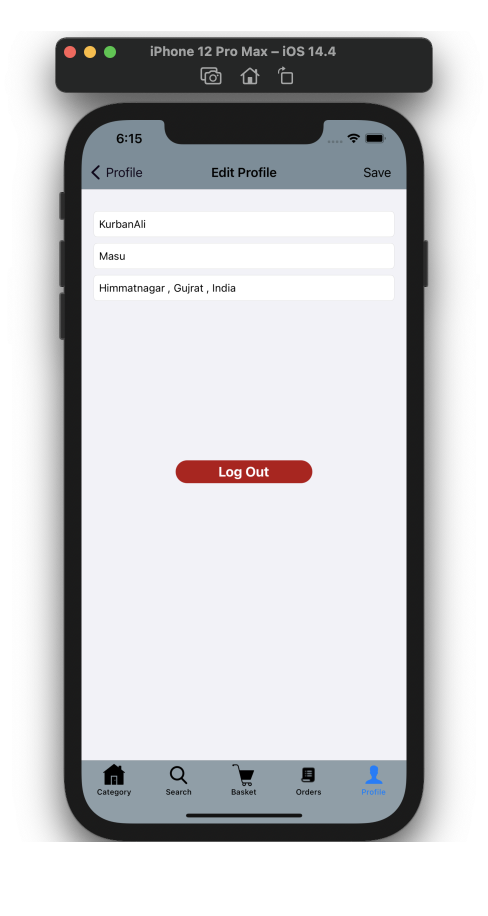
• Cart view screen

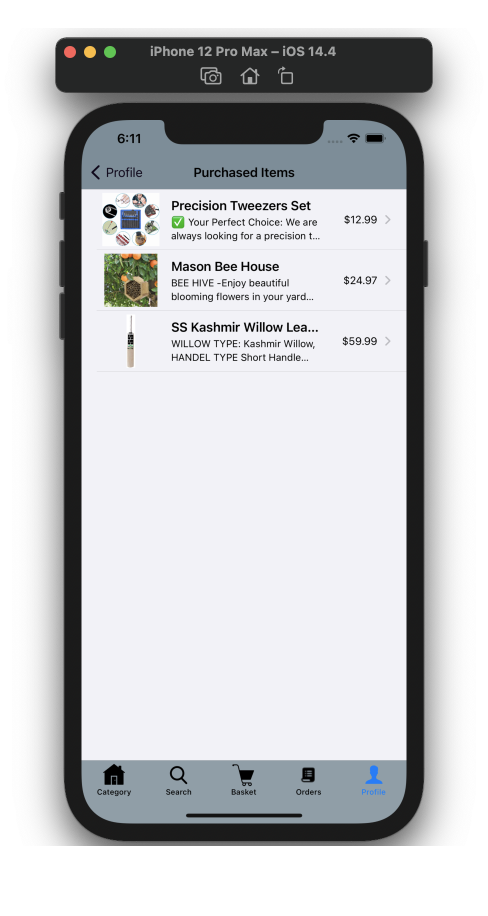
• Confirm order view screen

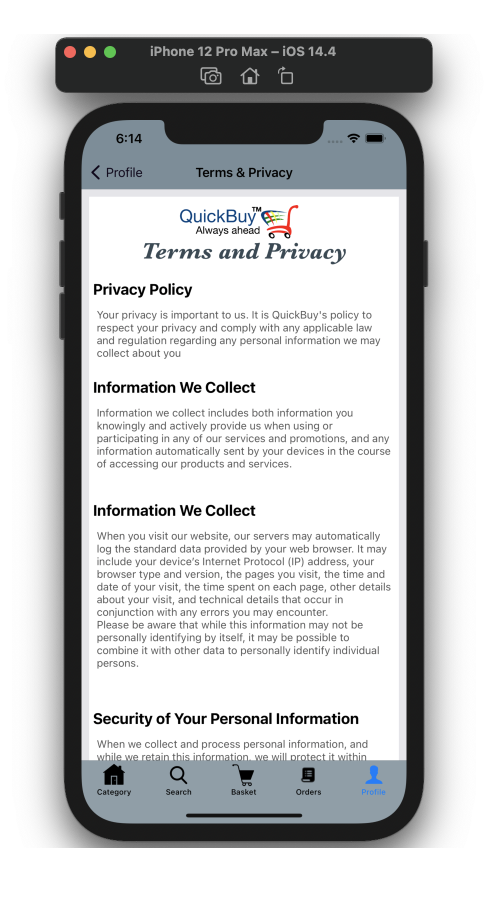
• Orders view screen

• Order details view screen

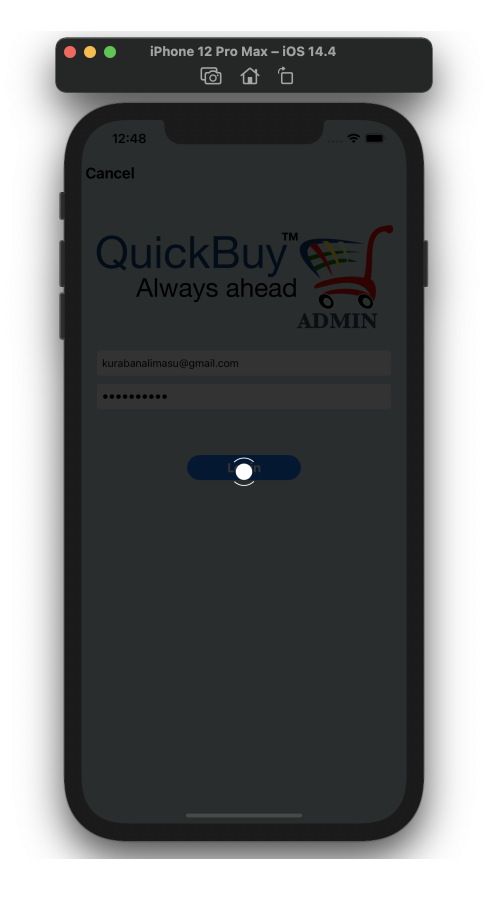
• Profile view screen

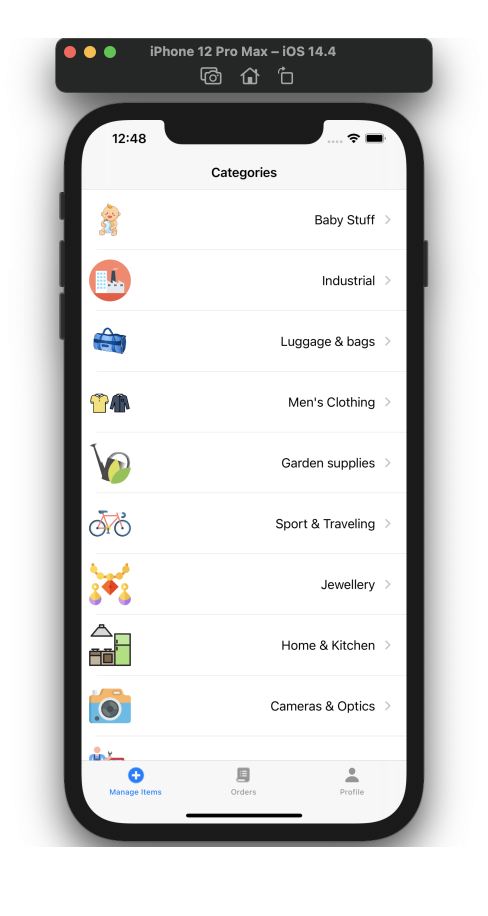
• Edit profile view screen

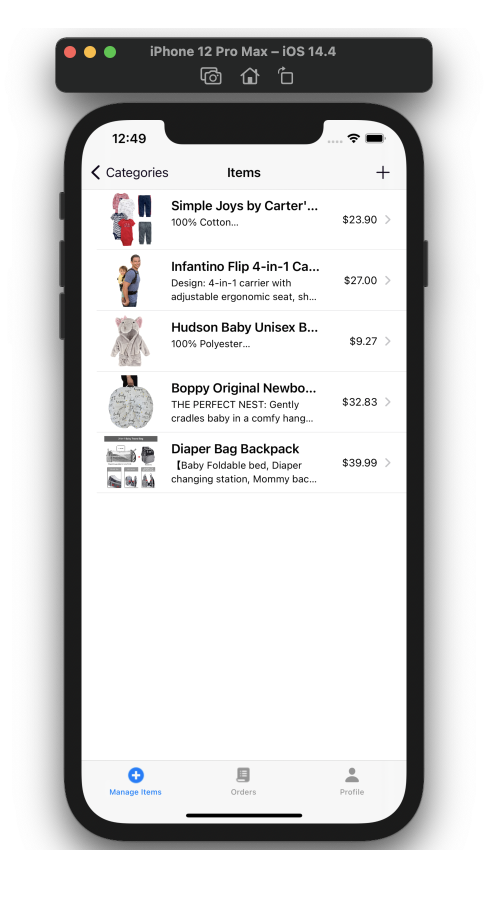
• Purchase history view screen

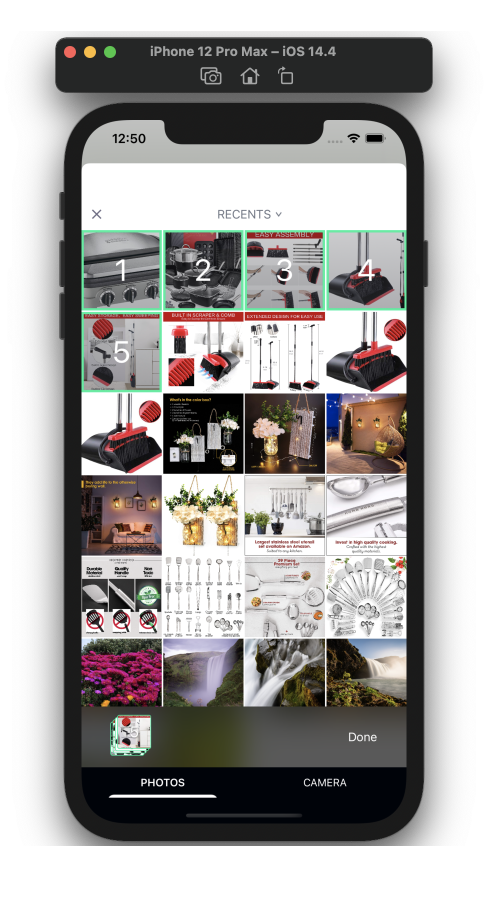
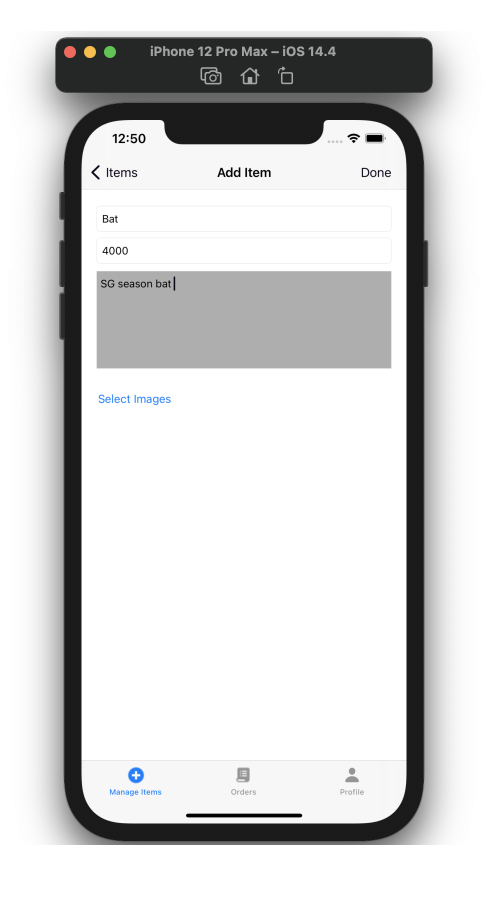
• Terms and privacy view screen

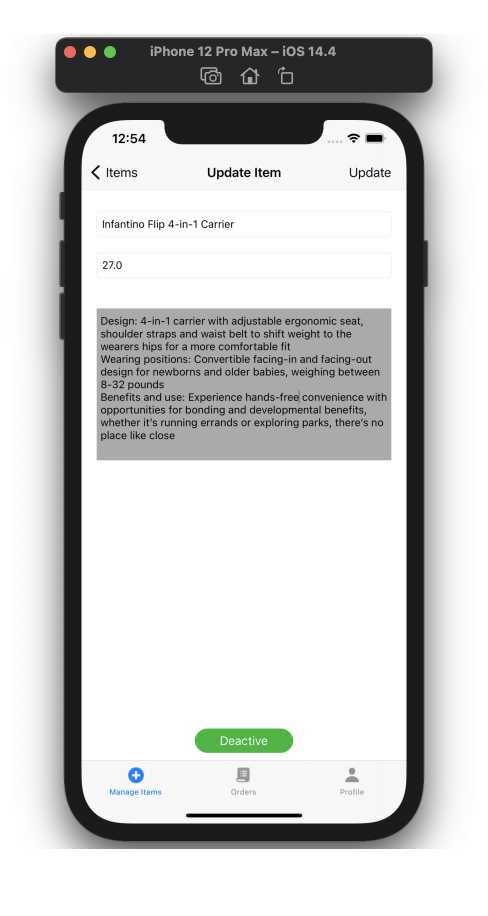
**ADMIN** **SIDE** **DESIGN**

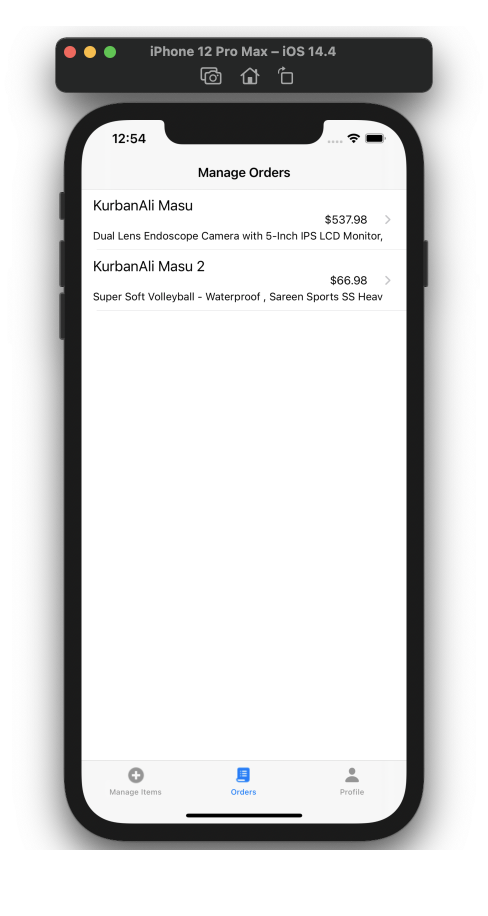
• Login Screen • Login Screen loading indicator

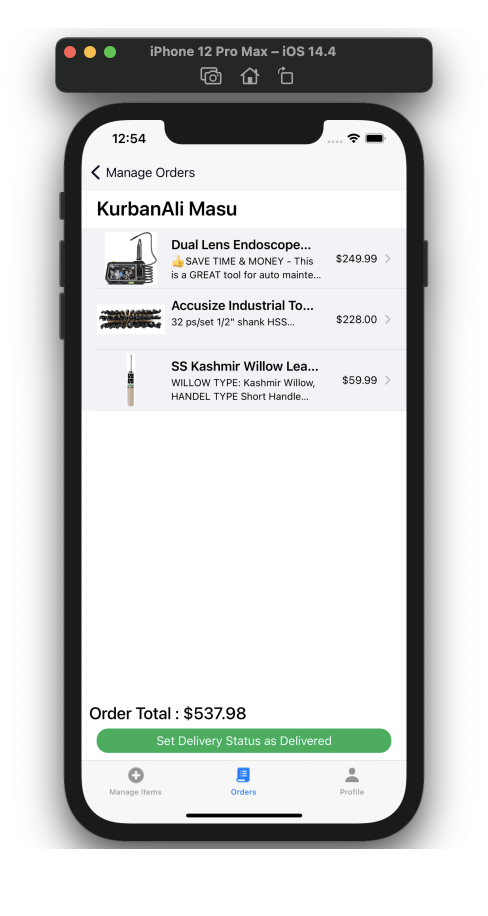
• Category screen

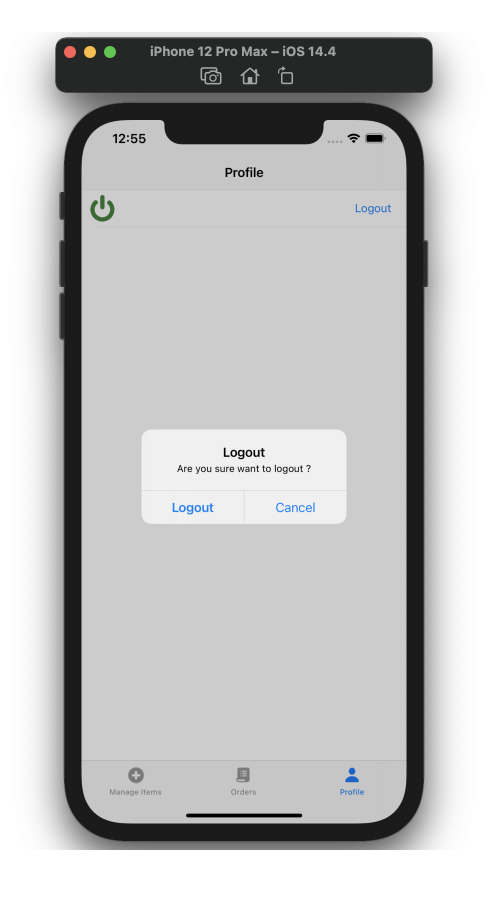
• Items in Category screen

• Add item screen • Image selection in add item

• Update Item screen

• All orders view screen

• Order view screen

• Logout Screen

**TEST** **CASES**

**TEST** **CASES** **:** **LOGIN**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Test** **Cases** | **Test** **case** **id** | **Test** **Case** **Description** | **Test** **Data** | **Expected** **Result** | **Actual** **Result** | **Pass** **/** **Fail** |
| **1** | **LOGIN** | 1.1 | Check response when valid email and password is entered | Email: [kurabanalimasu@gmail.com](mailto:kurabanalimasu@gmail.com)  Password: kurban@123 | login should be successful | Login was successful | Pass |
| 1.2 | Check response with non-verified email and password | Email: kurbanali@gmail.com  Password: kurban@123 | Show error of email not verified | Showing error email is not verified | Pass |
| 1.3 | Check response when invalid email and password entered | Email: kurbanali123@gmail.com  Password: kurban@12345 | Show error of no user record corresponding to this identifier | Showing error no record corresponding to this identifier | Pass |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Test** **Cases** | **Test** **case** **id** | **Test** **Case** **Description** | **Test** **Data** | **Expected** **Result** | **Actual** **Result** | **Pass** **/** **Fail** |
| **1** | **LOGIN** | 1.4 | Try to login with empty text Field | - | Show error of all fields are required | Showing error of all fields are required | Pass |

**TEST** **CASES** **:** **REGISTRATION**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Test** **Cases** | **Test** **case** **id** | **Test** **Case** **Description** | **Test** **Data** | **Expected** **Result** | **Actual** **Result** | **Pass** **/** **Fail** |
| **2** | **REGISTRATION** | 2.1 | Check response when register with valid email address and password | Email: john122@gmail.com  Password: john@#123 | Send verification mail to email address | Sending email to the mail address | Pass |
| 2.2 | Check response with invalid email and password | Email: [john24553333@gmail.com](mailto:john24553333@gmail.com/)  Password : john@@9078567 | Show error of email address badly formatted | Showing error of email address badly formatted | Pass |
| 2.3 | Check response when try to register with already registered email | Email: kurabanalimasu@gmail.com  Password: kurban@123 | Show error of this email is used by another user | Showing error of this email is used by another user | Pass |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Test** **Cases** | **Test** **case** **id** | **Test** **Case** **Description** | **Test** **Data** | **Expected** **Result** | **Actual** **Result** | **Pass** **/** **Fail** |
| **2** | **REGISTRATION** | 2.4 | Try to Register with password length less then 6 characters | Email: jack221@gmail.com  Password: jack | Show error of password must have 6 or grater characters | Showing error of password must have 6 or grater characters | Pass |
| 2.5 | Try to register with empty fields | - | Show error of all fields are required | Showing error of all fields are required | Pass |

**TEST** **CASES** **:** **PURCHASE** **ITEM**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Test** **Cases** | **Test** **case** **id** | **Test** **Case** **Description** | **Test** **Data** | **Expected** **Result** | **Actual** **Result** | **Pass** **/** **Fail** |
| **3** | **PURCHASE** **ITEM** | 3.1 | Add active item to cart | - | Item will add to cart | Item added to cart | Pass |
| 3.2 | Add inactive item to cart | - | It will show error of item in not available currently | showing error of item in not available currently | Pass |
| 3.3 | Add item to cart without login | - | It will redirect on login screen | Redirecting on login screen | Pass |

**TEST** **CASES** **:** **SEARCH** **ITEM**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Test** **Cases** | **Test** **case** **id** | **Test** **Case** **Description** | **Test** **Data** | **Expected** **Result** | **Actual** **Result** | **Pass** **/** **Fail** |
| **4** | **SEARCH** **ITEM** | 4.1 | Search the item with valid item name | Item Name : Bag | It will show all bags | showing all bags | Pass |
| 4.2 | Search item with empty field | - | It will show the error of all fields are required | showing the error of all fields are required | Pass |

**TEST** **CASES** **:** **ORDER**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Test** **Cases** | **Test** **case** **id** | **Test** **Case** **Description** | **Test** **Data** | **Expected** **Result** | **Actual** **Result** | **Pass** **/** **Fail** |
| **5** | **ORDER** | 5.1 | Check out all the cart items and order | - | It will confirm order then place order | Confirm order then placed order | Pass |
| 5.2 | Cancel the order from orders | - | It will cancel the order | Cancelled order | Pass |

**LIMITATIONS** **OF** **SYSTEM**

ØIn this system we can’t manage the stock of the items.

ØIn this system we can’t see the order delivery status.

ØIn this system there is not online payment method.

ØIn this system user can’t add multiple address.

**FUTURE** **ENHANCEMANT**

ØWe will provide web application.

ØWe will provide Separate app for user and admin.

ØWe will provide order delivery status with the notification.

ØWe will provide online payment method.

ØWe will provide return and refund system

**BIBLIOGRAPHY**

<https://swift.org>

<https://cocoapods.org>

<https://stackoverflow.com>

<https://firebase.google.com/docs>

<https://github.com>

<https://www.ioscreator.com>

**THANK** **YOU**