Technical Doc - Swipe (YC 21)

- When we launch the swipe app - On the home screen, we are showing a list of products which contains Image, product name, product type, selling price and tax.

- After creating the project, The project with come up with AppDelegate, SceneDelegate and ViewController. Main is the storyboard to design our User Interface

1. View Controller:

- We are hitting https://app.getswipe.in/api/public/get in viewWillAppear() and fetching the data.

- Once we got the data from API, we are creating a structure and created a model for the response.

ProductListModel: Structure

We are saving the response that we got from API and showing in tableview cells.

UITableView:

- Created a TableView to show the list of products and TableView has some delegate and DataSource methods.

- Delegate methods - To see how our TableViewCell look like. For Eg: How much row height we can keep and how we can give the corner radius/shadow for a cell.

- DataSource methods: To show the number of rows in a section and what type of data to be shown in a cell.

- Once we get the response from API, we will show the number of rows based on the array count as well as data in an array.

UITableViewCell: ProductListViewCell

- By default, TableViewCell has an image and text. If we want to show only image and text, we don't need to customise the cell.

- If we have more data to show in a TableViewCell, we need to design cell as per our requirements. Here, I have added one cell in a Tableview and made the height as 110 and the class of the UITableviewCell is ProductListViewCell. And, also each TableViewCell has it's own reuseIdentifier. Here, we named our cell as ProductCell.

- So that, we can design one cell and use for all the rows in a tableview.

- The logic that I implemented here to show an Image is, If we are getting any image url from API I am showing actual image and If we are getting empty URL from API I am taking a static image named: Swipe_logo and showing in a cell.

UISeachBar:

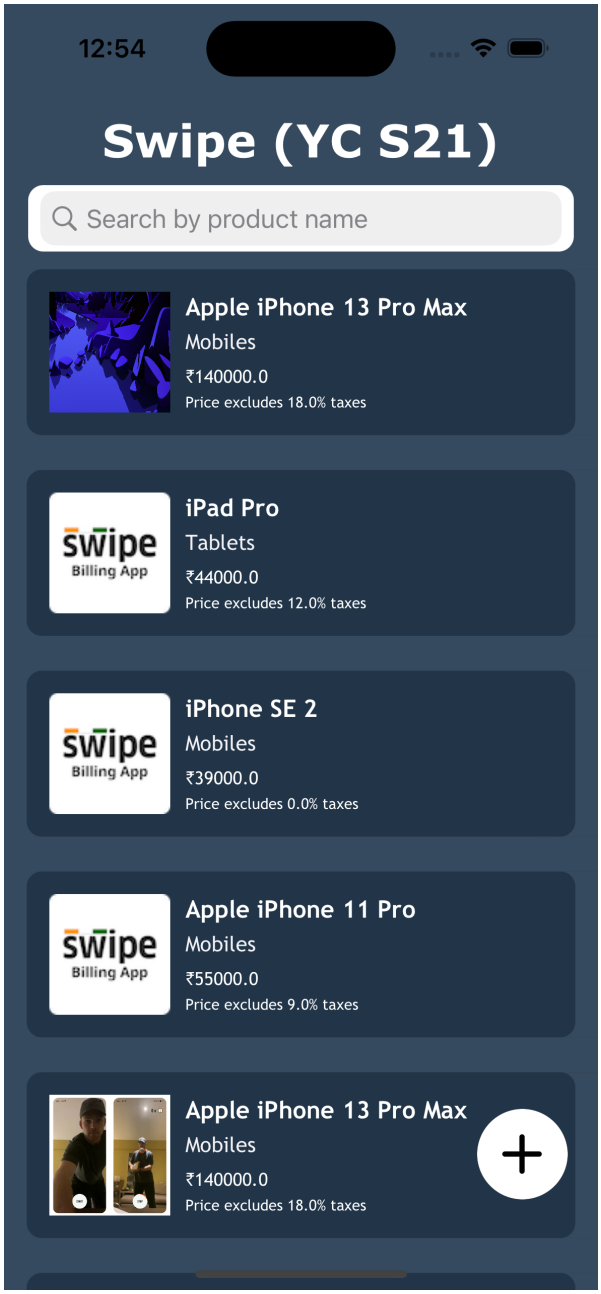
- I am using seachbar is to search the product names from the product list.
- If we search any product, It will show all the products related to the searched text.

- UISearchBarDelegate: This delegate having some methods. When we type something it will show the results based on each character type. For Eg: textDidChange() and when we click on cancel button in the searchBar, it will clear the text inside the searchBar and show actual product list.

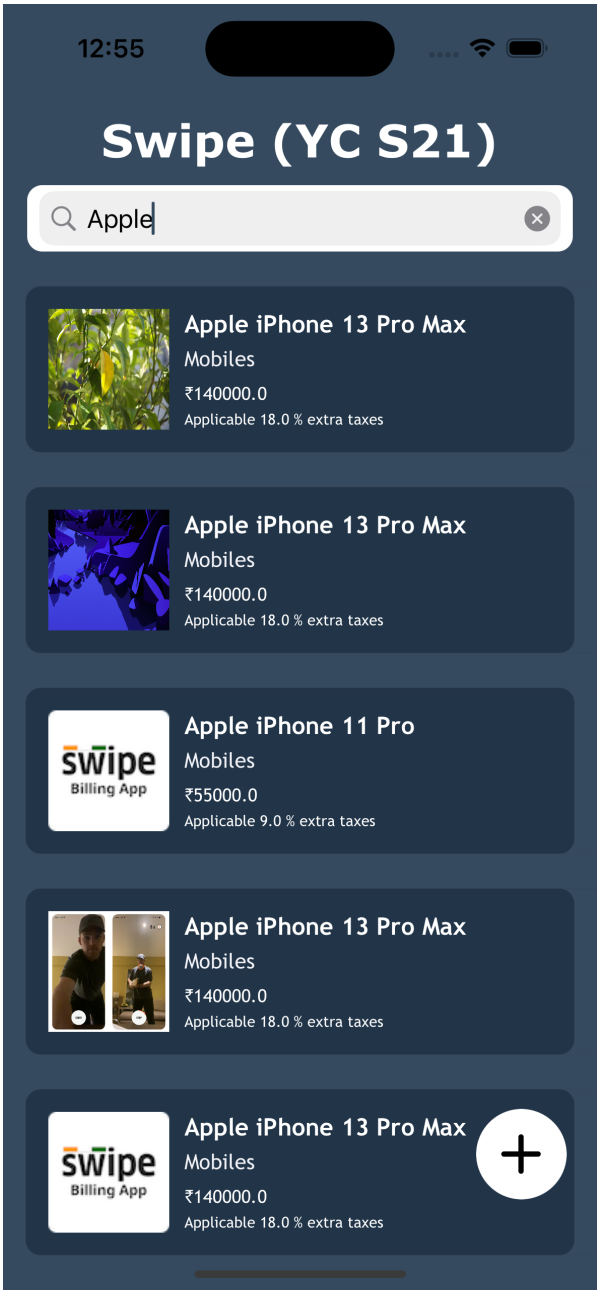
- **NOTE:** Result for search are very quick.

UIButton: FloatingButton

I have implemented a floating plus button to add a new product.
On Floating button tap - We are presenting add product details screen.



Product List Page with out search



Product List Page with search

2. AddProductViewController:

- ProductImage: Here, I have taken an ImageView which is an optional to upload an image. If we click on add a product Image, It will open a bottom sheet having options to capture an image from Camera, Select from Photos and You can dismiss the bottom sheet if you don't want to upload any image.

- **NOTE:** If you try to select the Select from Camera, App will crash. Because, Simulator doesn't support camera in Simulator

- ProductName: Here entering the product name is mandatory. We are keeping * on each field to enter data mandatory.

- ProductType: We have to select the product type from the list of types that are available. I have implemented a tableview to select the product type.

- SellingPrice: We have to enter the selling price which is mandatory.

- TaxRate: We have to enter the tax rate which is mandatory.

Save Product details CTA:

when we click on this CTA, we are checking whether at the mandatory fields are filled or not. If not, We are showing an alert to fill that particular field. If filled, We are hitting the https://app.getswipe.in/api/public/add API with POST method which is having form-data.

Media: Structure

- Once, we uploaded an image to ImageView, We are saving the image in a FileManager and getting the path of the Image file.

- We are sending image as a file with key of the Image "files[]" and the value is fileName with MimeType as image/jpeg extension which we are sending in a Data format.

Response:

- Once we are getting the proper response, we are navigating back to the Product listing page with Product added successfully toast to let the user know that the product added successfully.
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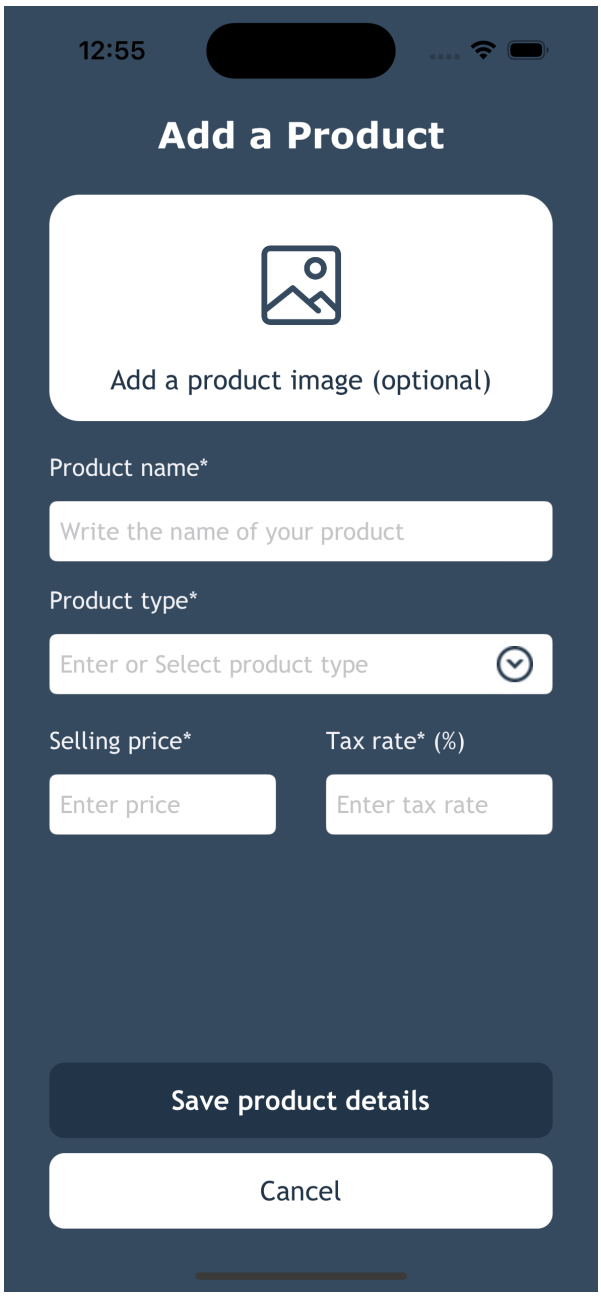
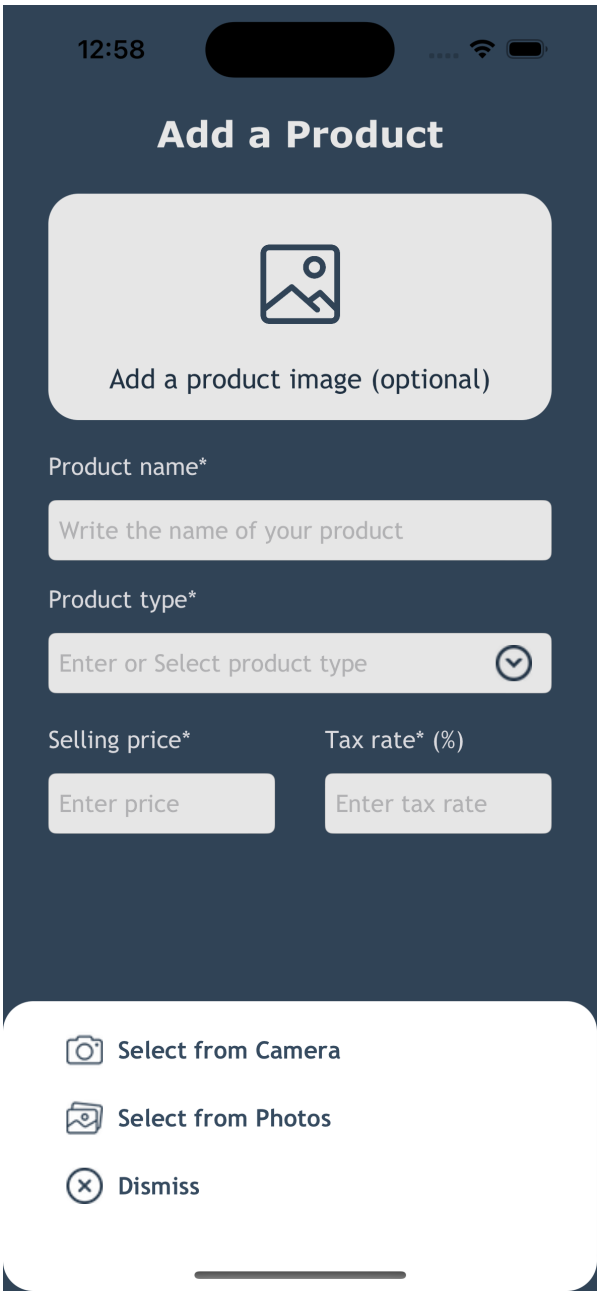
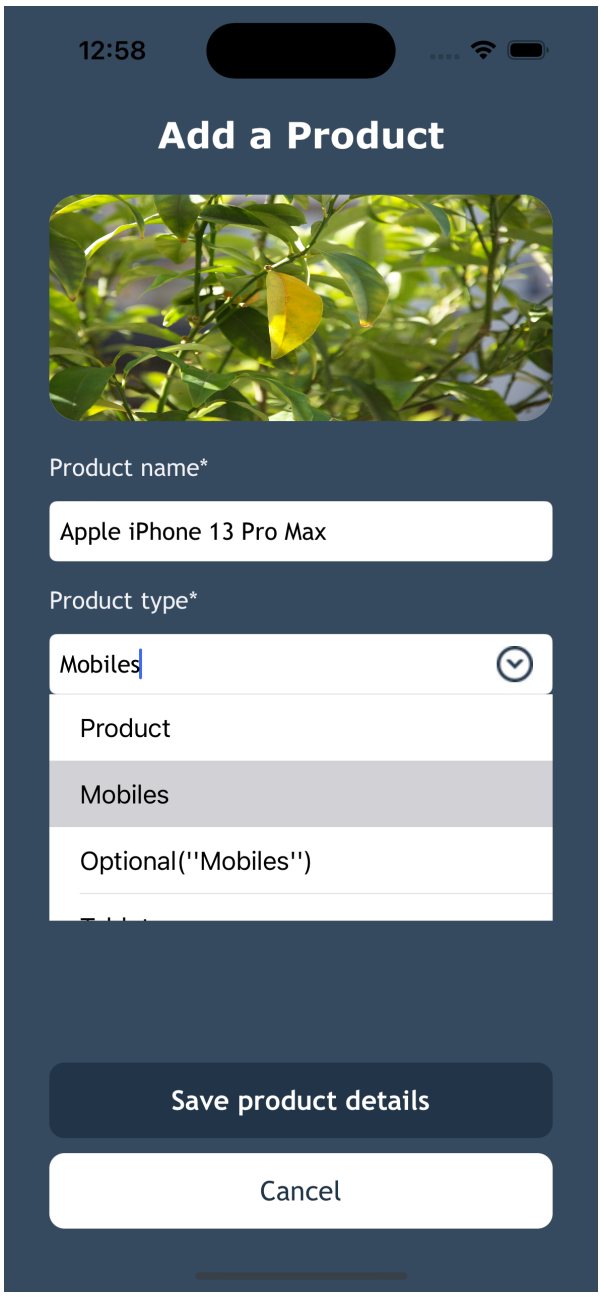
- If the response is giving an error, we are in same screen with showing an alert for the error message.

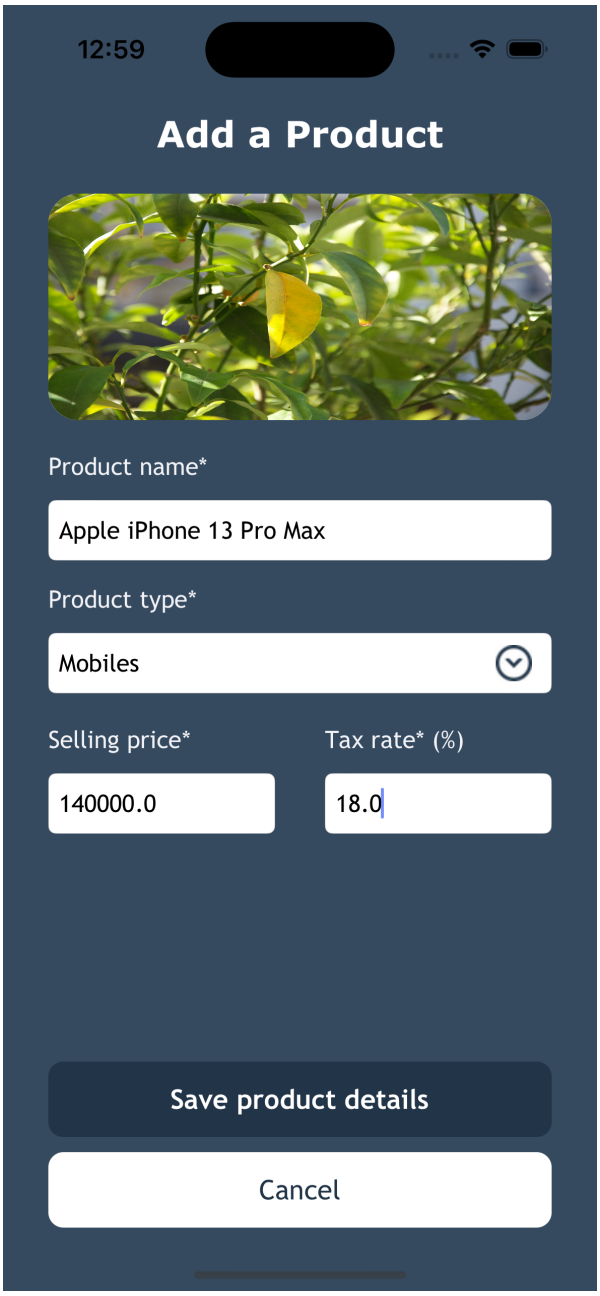
Cancel CTA:

If we wanted to go back to the product list screen, we can simply click on Cancel CTA.


12:55
Add a Product
Add a product image (optional)
Product name*
Write the name of your product
Product type*
Enter or Select product type
Selling price*
Tax rate* (%)
Enter price
Enter tax rate
Save product details
Cancel

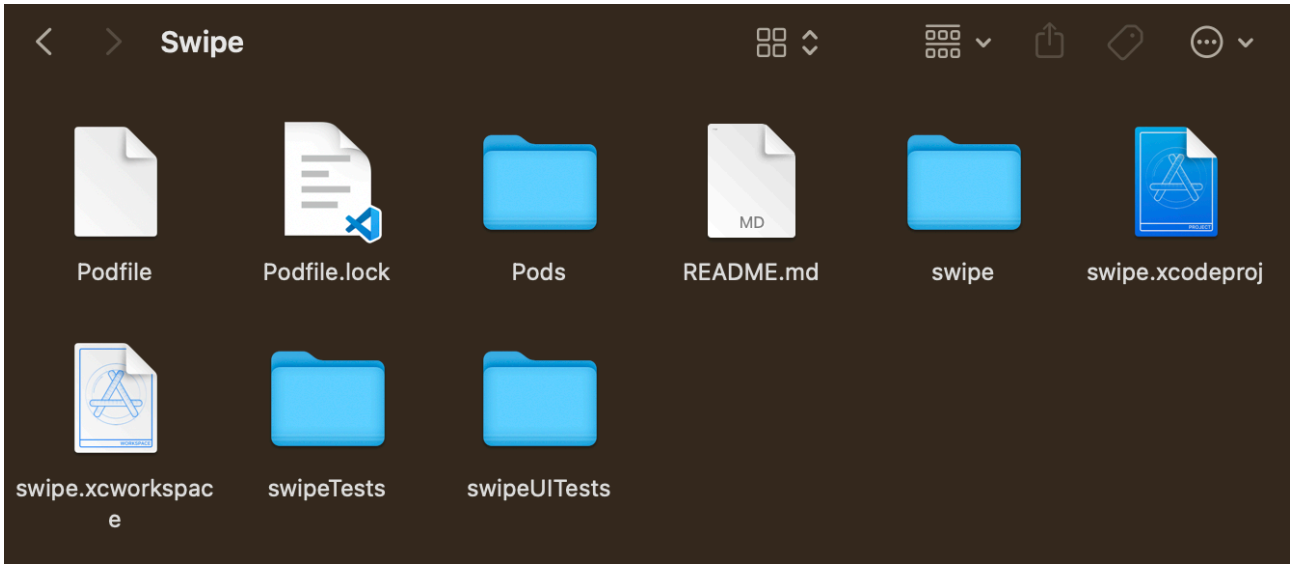
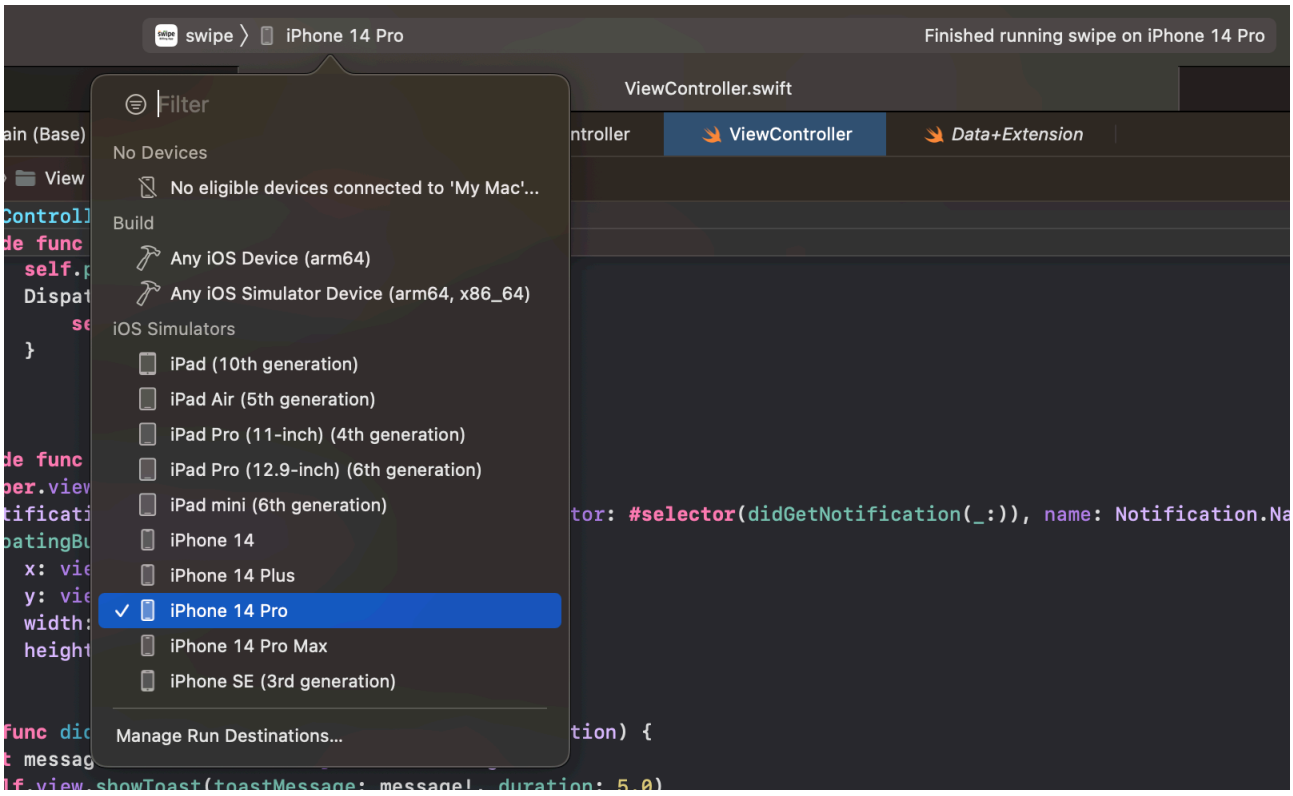

12:58
Add a Product
Add a product image (optional)
Product name*
Write the name of your product
Product type*
Enter or Select product type
Selling price*
Tax rate* (%)
Enter price
Enter tax rate
Select from Camera
Select from Photos
Dismiss


12:58
Add a Product
Product name*
Apple iPhone 13 Pro Max
Product type*
Mobiles
Product
Mobiles
Optional("Mobiles")
Save product details
Cancel


12:59
Add a Product
Product name*
Apple iPhone 13 Pro Max
Product type*
Mobiles
Selling price*
140000.0
Tax rate* (%)
18.0
Save product details
Cancel

Steps to Build and Run the App:

1. Clone the project from GitHub Url https://github.com/Prathap-iOS/swipe
2. Open Swipe folder.
3. Open swipe.xcworkspace in the folder using Xcode.



4. After opening the project, you can see all the folders which contains classes, Models, TableViewCells and Extensions.
5. Select and target device from the list of available devices to run in a Simulator.
6. To build the project hit Command+B and To run the project hit Command+R