

# iOS Assignment

In this iOS Assignment, you will build two screens - a product listing screen and an add product screen. Your goal is to demonstrate your skills in building a functional iOS app. Extra points if app is beautiful

## Screen 1 (Fragment): Listing Products.

### Requirements:

- Develop a screen that displays a list of products
- User should be able to do the following things on the screen
  - Search products
  - Look for all the products
  - Scroll through the list
  - Include a button that allows the user to navigate to the Add Product screen.
- Ensure that images are loaded for each product from a URL. If the URL is empty, use a default image instead.
- Populate all required fields, such as product name, product type, price, and tax, for each product in the list.
- Provide a visual indicator, such as a progress bar, to show loading progress.
- Use the provided API endpoint and HTTP method to retrieve the product data.
- Extra points for beautiful UI

**API Specification:** <https://app.getswipe.in/api/public/get>

### Expected Response:

```
[
  {
    "image": "https://vx-erp-product-images.s3.ap-south-1.amazonaws.com/9_1619635829_Farm_FreshToAvatar_Logo-01.png", "price": 1694.91525424,
    "product_name": "Testing app",
    "product_type": "Product",
    "tax": 18.0
  },
  {
    "image": "https://vx-erp-product-images.s3.ap-south-1.amazonaws.com/9_1619873597_WhatsApp_Image_2021-04-30_at_19.43.23.jpeg",
    "price": 84745.76271186,
    "product_name": "Testing Update",
    "product_type": "Service", "tax": 18.0
  }
]
```

## Screen 2: Add Product Screen.:

Create a screen that allows the user to add a new product with the following features:

- Select the product type from a list of options.
- Enter the product name, selling price, and tax rate using text fields.
- Optionally select images in JPEG or PNG format with a 1:1 ratio.
- Validate fields such as product type selection, non-empty product name, and decimal numbers for selling price and tax.
- Submit the data using the POST method to the API endpoint:  
<https://app.getswipe.in/api/public/add>.
- Use a user-friendly interface to display the screen.
- Document the code for future reference.
- Provide clear and concise feedback to the user upon completion of the action.

API Specifications: POST Method.

END POINT: <https://app.getswipe.in/api/public/add>

Body Type: form-data

Parameters:

| Name         | Type | for               |
|--------------|------|-------------------|
| product_name | text | Product Name      |
| product_type | text | Product Type      |
| price        | text | Selling price     |
| tax          | text | Tax rate          |
| files[]      | file | Images (OPTIONAL) |

Expected response:

```
{
  "message": "Product added Successfully!",
  "product_details": {
    //details of added product
  },
  "product_id": 2657,
  "success": true
}
```

## Notes

- Include detailed documentation that explains how to build and run the app, along with any other relevant information.
- Use modern technologies and best practices. Keep it production ready as much as possible.
- When in doubt, use your best judgment. We have kept it vague for a reason
- Implement a clear and user-friendly interface that makes it easy to navigate between screens and interact with the app.
- Use a version control system, such as Git, and **provide a public repository link (GitHub is recommended) for the code.**
- Make a demo video and share the video either on youtube or drive.

**Submission** - Use the following submission link <https://forms.gle/vhacGVx8HgwLF4UD6>