



## MishiPay Front End Developer: *Programming Challenge*

**Time: 12 hours**

**Main Task:** To create a responsive Android/iOS/Web based application capable of being able to scan barcodes (1d/2d), add the scanned item to the cart and show an invoice on checkout.

**Must complete:**

1. A scanner page with the capability of scanning 1-Dimensional or 2-Dimensional barcodes.
2. A cart page displaying product information of the added items, containing at least product title, price and image for each item added to the cart. This page must have an option to checkout.
3. A dummy invoice page to complete the checkout flow.
4. 10% unit test coverage
5. An intuitive navigation between all the pages (the user should not be stuck on any page or be dependent on any phone button for navigation).
6. Demonstration with an Android / iOS device.

**On Completion of task:**

1. Upload all your code to Github (or a similar repository service).
2. Create a video of your app demonstrating all features and send it along with the above code to [nikil@mishipay.com](mailto:nikil@mishipay.com).

**Notes:**

1. You are expected to use Angular2 or above for Web, Android Studio and Kotlin for Android, Xcode and Objective C or Swift for iOS.
2. Not completing the “Must complete” tasks will result in automatic disqualification of your submission.
3. Several areas of the tasks have not been defined exactly and this is deliberate in order to allow freedom for creativity and see how you would go about doing it.

For example: the scan page, the cart page, the invoice page, the navigation in the app can be done in any manner you deem best.

4. All rights to the developed/shared code are held by you, unless hired by MishiPay.