



PRODUCT WIZARD

MOBILE APPLICATION

Product Wizard Overview

- Product Wizard is a lightweight mobile application that allows its users to scan or input the barcode of products and return the information of that specific product.
- This mobile application utilizes the device camera to scan the barcode of many different products. If the product isn't registered, users have the ability to enter the product information and add it to the users personalized product list.





Deployment Environment

Google Play Store



Business

Document editor/reader,
package tracking



Education

Exam preparations, Study-Aids,
Vocabulary



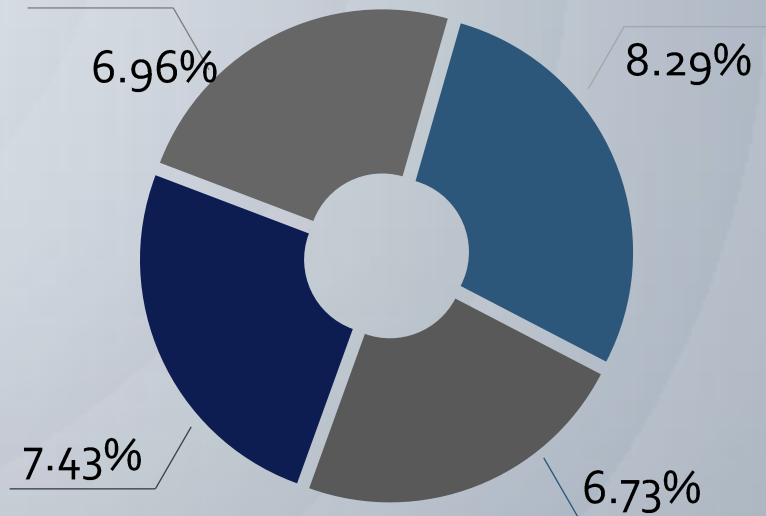
Entertainment

Streaming Video, Movies, TV,
Interactive Entertainment



Lifestyle

Style Guides, Wedding and Party
Planning, How-to- Guides.



***NB This chart represents the top four app categories in the play store**



Product Wizard

Requirements and Configuration



Internet
Connection



Access to Google
Services



Mobile Device
has Camera



Android Version
4.4(Kit Kat) API
Level 19 / Higher



IOS Version 10/
Higher

Product Wizard

Layered Architecture

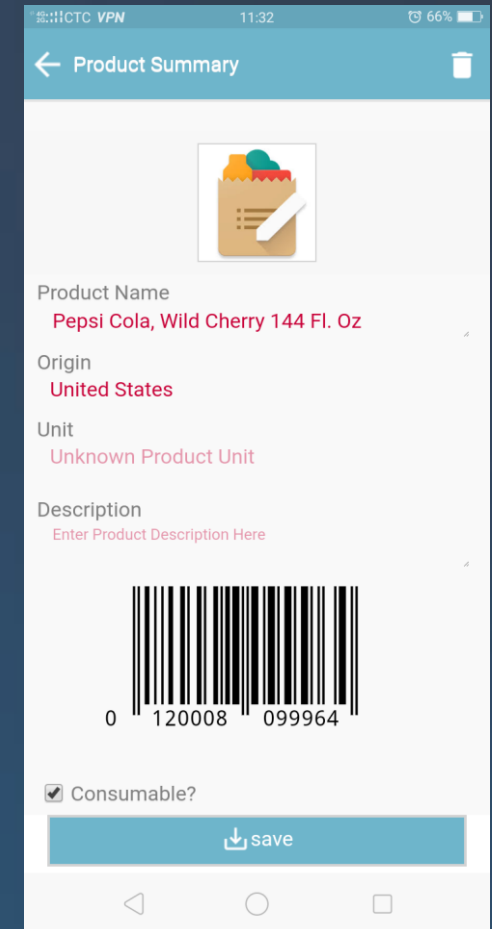
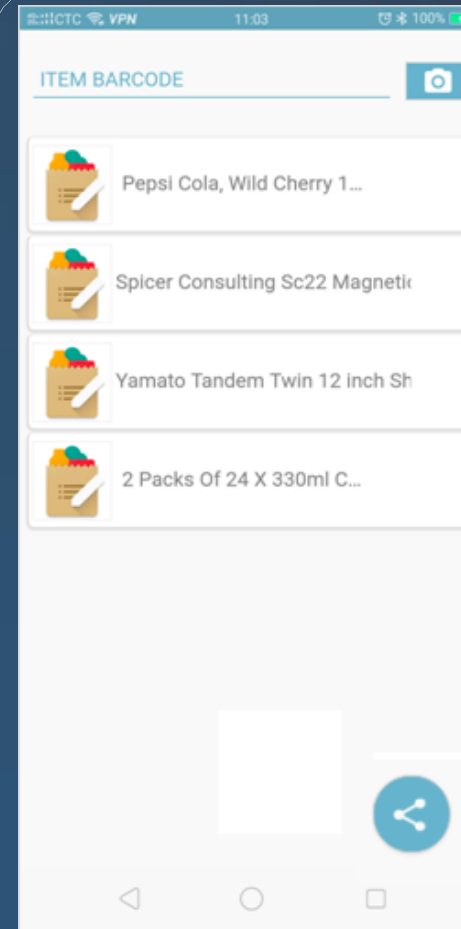




Product Wizard

Application Sleek UI Design


Product Wizard's User Interface has been designed with its users in mind. The home screen offers the user a choice between entering the numerical item code or scanning the items barcode. For an easy and hassle free usage, a simple interface was used.








Product Wizard


Product Database


 **Firestore**


 Project Overview 


Develop


 Authentication

 **Database**

 Storage


 Hosting


 Functions

 ML Kit


Quality
Crashlytics, Performance, Test Lab

Analytics

 Dashboard



 Events

Spark
Free \$0/month **Upgrade**



Product Wizard ▾ Database

Go to docs



nutFactsTransFatPercentage: "?"

nutFactsVitaminA: "?"

nutFactsVitaminB12: "?"

nutFactsVitaminB6: "?"

nutFactsVitaminC: "?"

nutFactsVitaminD: "?"

nutFactsVitaminE: "?"

nutFactsVitaminK: "?"

nutFactsZinc: "?"

productDecsriptionHolder: ""

productNameHolder: "Pepsi, 12 Oz., Pack Of 24"

productOriginHolder: "United States"

productUnitHolder: "10 Pounds"

9781877464003

nutFactsCalcium: "?"

nutFactsCalories: "?"

nutFactsCaloriesFat: "?"

nutFactsCholesterol: "?"

nutFactsCholesterolPercentage: "?"

nutFactsIron: "?"

nutFactsPercCholestorol2000: "?"

nutFactsPercCholestorol2500: "?"

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Product Wizard

Source Code for Saving and Removing Product from Database

```
const saveProduct = function(){
  new Promise(function(resolve, reject){
    var savedProducts = JSON.parse(localStorage["ProductWizard"]);
    savedProducts[currentBarcode] = createProductObject();
    localStorage["ProductWizard"] = JSON.stringify(savedProducts);
    toastMessageBottomShort("Product information saved to this device");
    loadSavedProducts();
  });
}

const removeProduct = function(){
  confirmUser("Are you sure you want to remove this item?", function(choice){
    if(choice == 2){
      //CANCEL
    }
    else{
      //REMOVE CONFIRMATION
      var savedProducts = JSON.parse(localStorage["ProductWizard"]);
      delete savedProducts[currentBarcode];
      localStorage["ProductWizard"] = JSON.stringify(savedProducts);
      toastMessageBottomShort("Removed Successfully");
      loadSavedProducts();
      setTimeout(function(){
        window.history.back();
      }, 500);
    }
  }, "Remove", ["OK", "CANCEL"]);
};
```




Product Wizard

Source Code for Reading Nutritional Facts of a Product

```
const readNutritionalFacts = function(barcode){
  return new Promise(function(resolve, reject){
    queryDatabase([barcode]).then(function(nutritionFacts){
      $("#isConsumable").prop("checked", false);
      $("#nutFactsTable").toggle(false);
      if(nutritionFacts == null){
        $(".nutFactsUpdateField").html("?");
        $("#consumableCheck").toggle(true);
        resolve(false);
      }
      else{
        checkIfConsumable = true;
        for(var x in nutritionFacts){
          $("#"+x).html(nutritionFacts[x]);
          if(typeof(fieldLabelMapper[x]) != "undefined" && checkIfConsumable){
            if((nutritionFacts[x] != "?" && nutritionFacts[x] != "")){
              $("#nutFactsTable").toggle(true);
              $("#consumableCheck").toggle(false);
              checkIfConsumable = false;
            }
          }
        }
        resolve(nutritionFacts);
      }
    });
  });
};
```

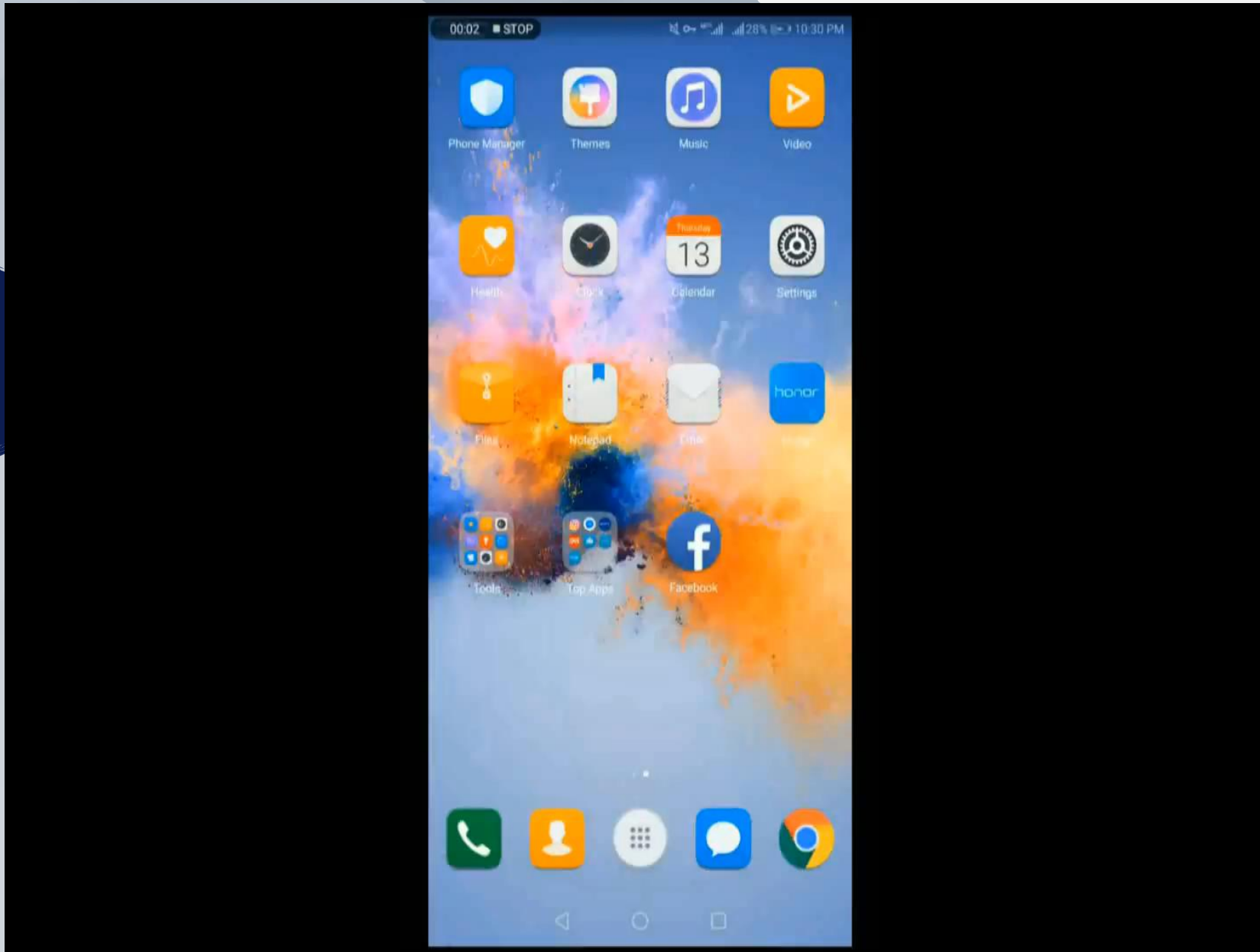
DEMO





Product Wizard

Demo



THANK YOU

K.O.D Inc

