

# Picky Eater



A recipe search assistant Android application.

**Team Tame Name:** 

Josh Asmussen

**Timothy Euken** 

**Yiou Gao** 

**David Gerstle** 

**Shane Murphy** 

Kamen Shah

#### **Tools Used**









GitHub: Version Control





Asana: Project Management





Slack: Team Communication Tool







• Adobe Illustrator/Photoshop: Graphic Design





Google Firebase: Cloud Database



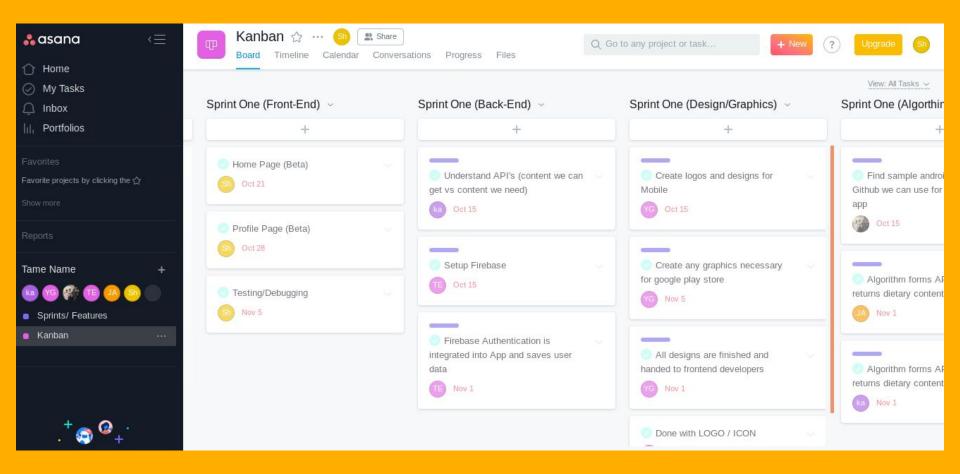


Calabash: Testing Tool



## **Project Management Methods Used**

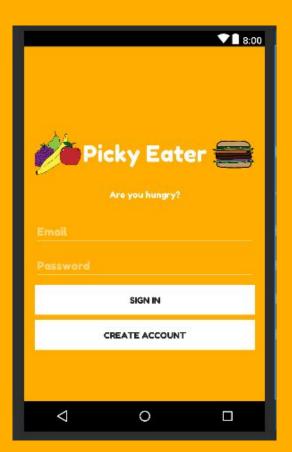
- Agile
- SCRUM meetings
- Peer Code Reviews
- Pair Programming
- Asana & Slack



#### **Lessons Learned**

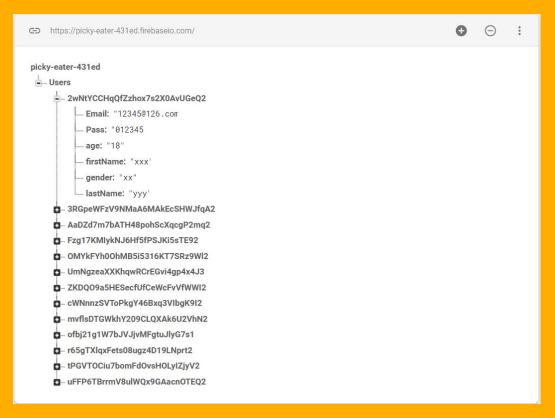
- Time Management Priorities
- Communicate and confirm team meetings early
- Make use of open source tools
- Adobe XD should be used to create a mock UI of application
- If an error occurs in AS, check dependencies and gradle file

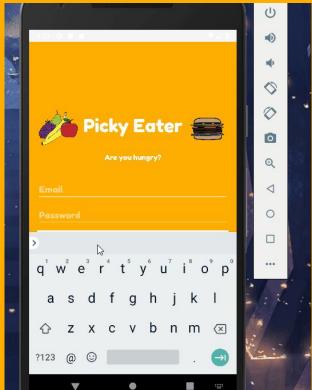
## Frontend / Design



```
<android.support.constraint.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
   android: layout width="match parent"
   android:layout height="match parent"
                                                             1:51 💠 🛡 🕮
                                                                                                    0
   <ProgressBar
       android:layout width="11dp"
       android:layout height="wrap content"
       android:layout marginBottom="8dp"
       android:layout width="0dp"
       android:layout marginTop="256dp"
       android:maxLines="1"
```

### **Firebase**





## **API**



#### **API Call**

```
class RetrieveFeedTask extends AsyncTask<Void, Void, String> {
   private Exception exception:
   protected String doInBackground(Void... urls) {
       String foodChoice = foodText.getText().toString();
       String calories = foodCalories.getText().toString();
       String protein = foodProtein.getText().toString();
       String fat = foodFat.getText().toString();
       String meals = mealsCount.getText().toString();
       try {
           URL url = new URL( spec: API URL + API KEY + foodChoice + "&maxResult="+meals+"&start=0&nutrition.EMERC KCAL.max="
                    +calories+"&nutrition.PROCNT.max="+protein+"&nutrition.FAT.max="+fat);
            HttpURLConnection urlConnection = (HttpURLConnection) url.openConnection();
            try {
                BufferedReader bufferedReader = new BufferedReader(new InputStreamReader(urlConnection.getInputStream()));
               StringBuilder stringBuilder = new StringBuilder();
               String line:
               while ((line = bufferedReader.readLine()) != null) {
                   stringBuilder.append(line).append("\n");
               bufferedReader.close();
                return stringBuilder.toString();
            } finally {
               urlConnection.disconnect();
        } catch (Exception e) {
           Log.e( tag: "ERROR", e.getMessage(), e);
```

Extracts user input and appends it into URL request

**Makes URL connection** 

Stores JSON output in a string using
StringBuilder

## **Parsing JSON Data**

```
protected void onPostExecute(String response) {
    if (response == null) {
            response = "THERE WAS AN ERROR";
    JSON products = new JSON(response).kev("matches");
    String resultText = "";
        JSON productInfo = products.index(i);
        String ingredients = " INGREDIENTS:\n ";
        for (int j = 0; j < productInfo.key("ingredients").count(); j++) {</pre>
                ingredients += "
                ingredients += "\n
            ingredients += productInfo.key("ingredients").index(j).stringValue();
        resultText += String.format("\n\n %s \n %s \n\n %s",
                (i+1)+") "+productInfo.key("sourceDisplayName").stringValue(),
                productInfo.key("id").stringValue(),
                ingredients
    String foodChoice = foodText.getText().toString();
   DummyContent.DummyItem a = new DummyContent.DummyItem( id: "1", R.drawable.p7, foodChoice, author: "", resultText);
    DummyContent inst = new DummyContent();
    inst.addItem(a);
    openDashBoard():
```

JSON object is created with API call data

Another JSON object is created for each index of recipe

Data is formatted and displayed

