# ScaNut 🥜

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🔔 Contains Nuts

🔔 Contains Traces

🔔 Safe to Eat

python™

Visual Studio Code

USB Barcode Scanner

LED SenseHat 🔔

Laptop

**1**

>_SSH

**2**

Raspberry Pi

**3**

🍃 MongoDB.

**4**

Blynk

Web App 🔔

Mobile App 🔔

Router

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**1** 'ScaNut' Program run on RPI through secure shell connection to laptop with Python on Visual Studio Code application.

**2** A USB Barcode scanner is used to scan the barcode and return a product number for database search.

**3** Product number is searched on MongoDB Atlas Cloud Database and ingredient contents examined through search queries.

**4** Scan Results are presented through notifications on LED SenseHat and Blynk IoT Platform Web & Mobile Applications