**Algorithm for Product Registration and QR Code Generation**

1. **Start.**
2. **Get Product Information:** Product ID, Product Name, Quantity, Price
3. **Save Product Data to Database:** 
   1. **If save successfully then:**
      1. **Display success alert message:** "Product registered successfully!"
      2. **Begin QR Code Generation.**
   2. **Else:**
      1. **Show the error alert message.**
      2. **Again get information moving back to step 1.**

1. **Generate QR Code:**
   1. **Data Encoding:** Encode String data into array of integers.
   2. **Make QR Code Structure:** Convert encoded data into QR code matrix.
   3. **QR Code Module Setup:** Convert QR Code matrix to QR Code with position patterns, timing patterns, and other adjustments.
   4. **QR Code Masking:** Use the QR Code matrix, with Mask pattern to form Masked QR Code matrix.
   5. **Drawing QR Code:** Now use it to create visual representation in PNG Format.

1. **Display QR Code:** Put the created visual representation of the QR code into to an HTML element.

1. **Download QR Code:**
   1. **Create a download link for the QR code.**
   2. **Automatically go to the download link to download the QR code.**

1. **Stop.**