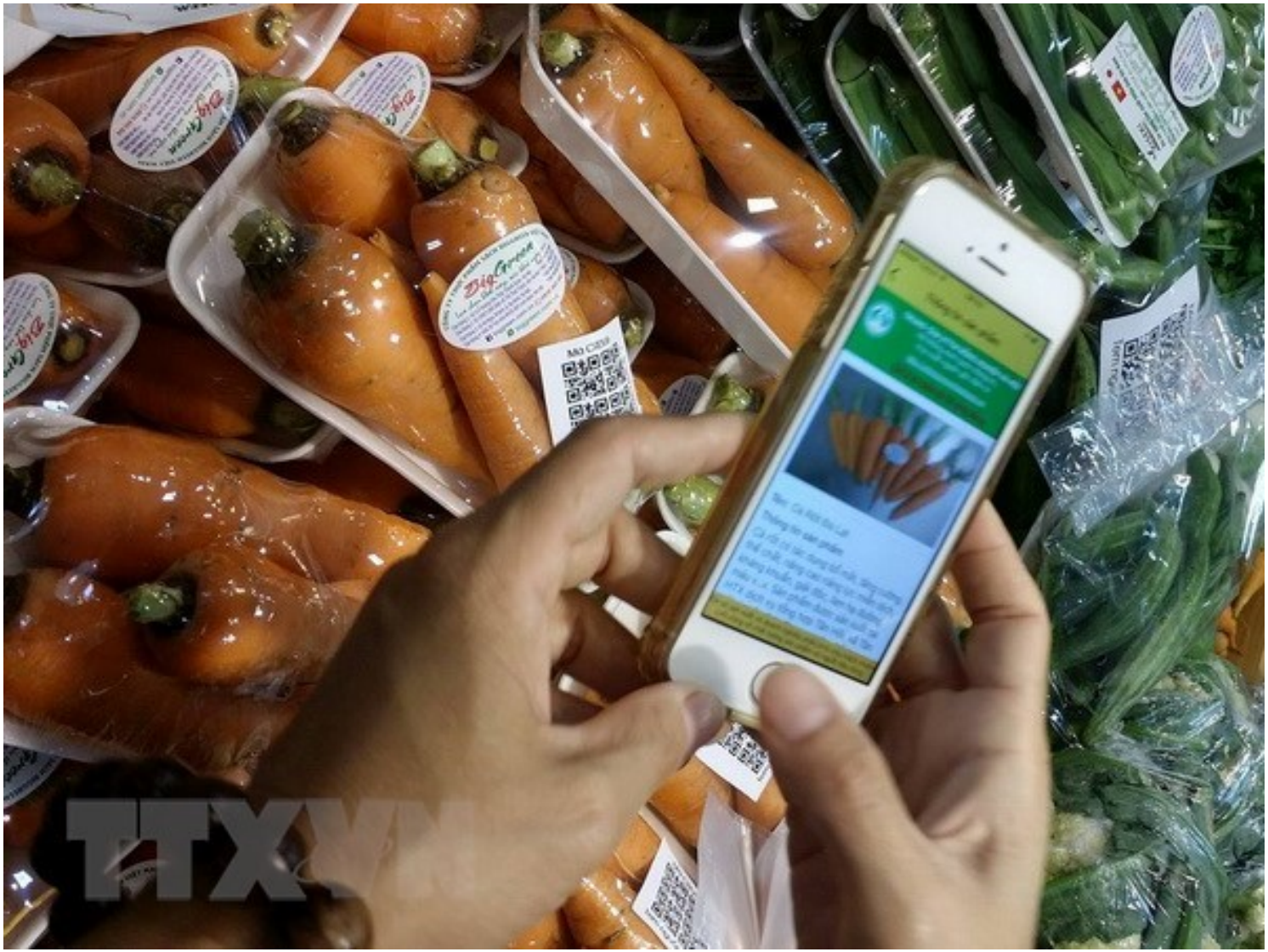
DISTRIBUTED SYSTEMS

LAB 3

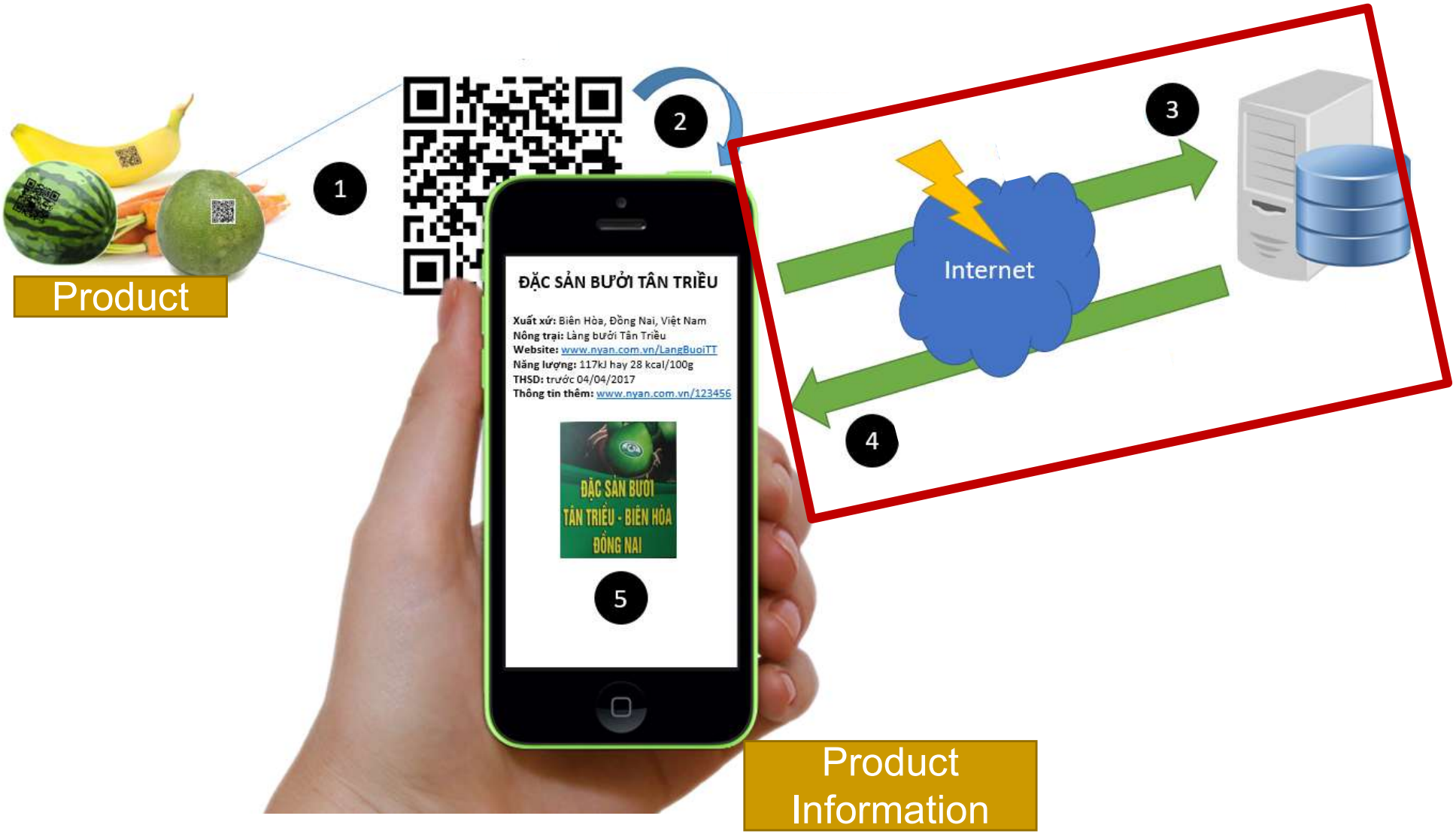
WEB SERVICE

FOOD ORIGINS (1/2)



https://en.vietnamplus.vn/vietnam-to-build-product-origin-site/145972.vnp

FOOD ORIGINS (2/2)



YOUR ATTESTATION

- Implement a restful web service to provide product information of your choice
  - Input: product bar code/QR code
  - Output: product information
- Mode: individual
- Maximum time: 120 minutes (13h-15h)
- Submission
  - Submit your single zip file to e-learning
- Final result demonstration
  - Notifying your lecturer and/or TA

YOUR PRODUCT DESIGN

- Choose an agricultural product of your choice
  - E.g., Guava Grapefruit
- Prepare your product information in your PostgreSQL (at least 5 features)
  - Product of: Bien Hoa, Dong Nai, Vietnam
  - Farm: Tan Trieu Grapefruit
  - Website: http://tantrieugrapefruit.com/guava
  - Energy: 28 kcal/100g
  - Expired date: before 05/08/2020

IMPLEMENTATION (1/2)

- If the last digit of your student number is odd
  - ProductID for example: 9049049199999
  - The webservice is with GET method
- If the last digit of your student number is even
  - ProductID for example: 9059089199898
  - The webservice is with POST method
- You can use any free service to generate your bar code or QR code
  - Bar code: https://barcode.tec-it.com/en
  - QR code: https://www.qr-code-generator.com/

IMPLEMENTATION (2/2)

- Minimum requirements
  - Complete your web service with either GET or POST method for text code (7 points)
  - Demo with Postman (1 point)
  - Your application can scan your bar code/QR code in the form of image (2 points)
- Bonus
  - Application with GUIs (1 point)
  - Product image can be displayed on GUI (1 point)

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QUESTIONS AND ANSWERS