

Final R&D Project Presentation from Cycle 8 BCIS program students

Written by Nguyễn Thị Phương Hằng

Tuesday, 05 June 2018 00:00 - Last Updated Tuesday, 23 October 2018 11:02

On June 4th, 2018, students from cycle 8 Bachelor of Computer and Information Sciences program, a joint program between Ho Chi Minh University of Science, VNUHCM and Auckland University of Technology (AUT), New Zealand, completed the R&D Projects.

This year's projects came from companies like Robert Bosch Engineering and Business Solutions Vietnam, TMA Solutions, Global Cybersoft, Fromlabs Pte.Ltd, Amaris Vietnam, and FPT Vietnam.

ITEC would like to show gratitude towards the presence of the representatives of companies providing topics and the employers from the following companies: Home credit Vietnam, NashTech Vietnam, Manpower Group, VITOP Media, and NIFTIT Vietnam.

The list of topics is available at <https://goo.gl/vfKxdy>

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A group photo taking with the Council

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Botsina Group - Client: Global Cybersoft Vietnam

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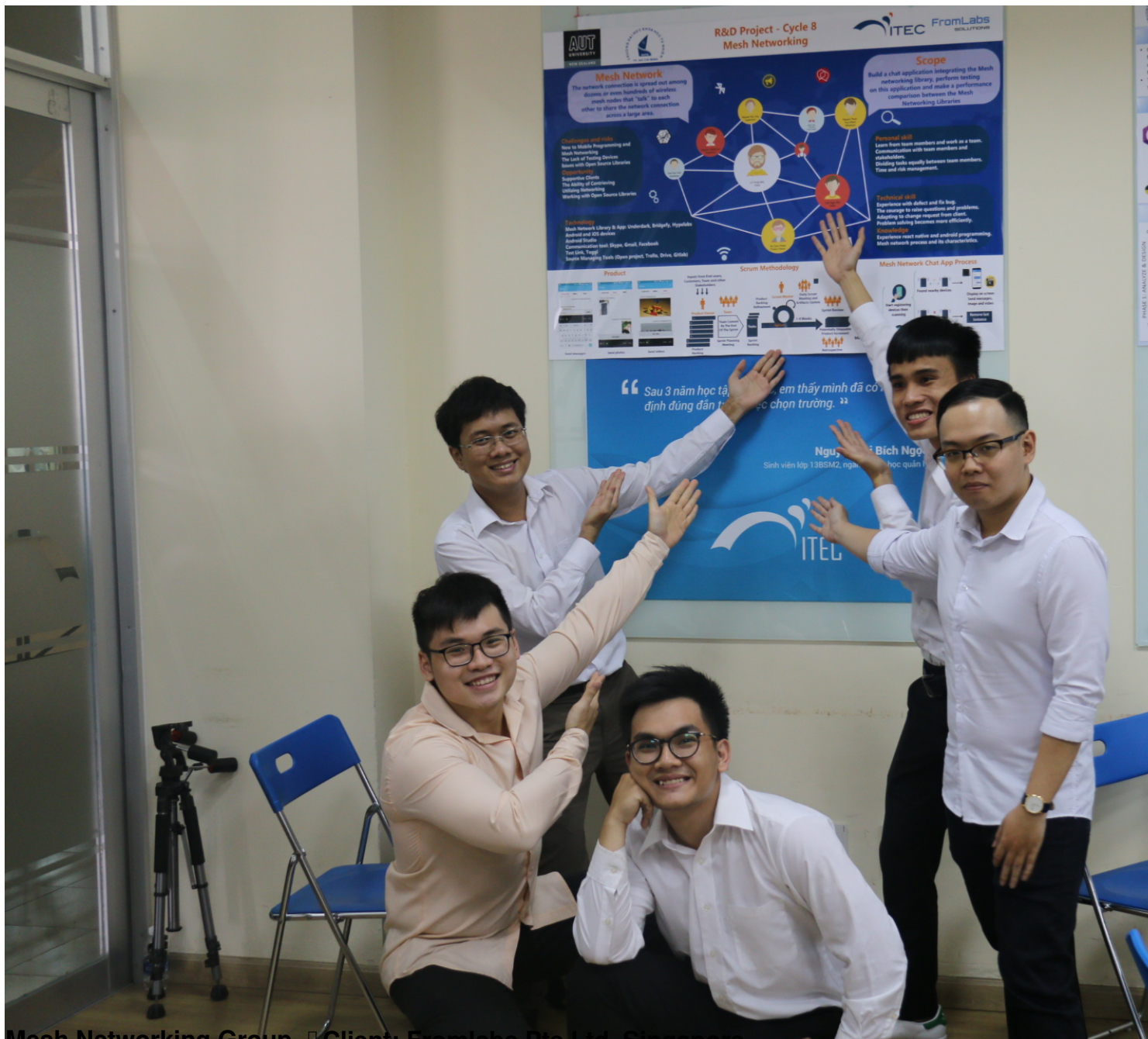


Cross-platform Group - Client: Fromlabs Pte.Ltd, Singapore

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Mesh Networking Group - Client: Fromlabs Pte.Ltd, Singapore

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Smart Parking Group - Client: Global Cybersoft Vietnam

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Intelligent Personalized Learning System Group - Client: TMA Solutions

LOCAL PAYMENT APPLICATION
FPT INFORMATION SYSTEM – BANKING & FINANCE

Introduction
With the large and expanding demand for banking processing system, FPT Information System – Bank and Finance, has decided to establish this project with the purpose of enhancing banking payment processing system.
Reason for establishing Local Payment
• Simplify interaction between Core Banking and Domestic Payment gateways
• Advance transactions processing procedure and automate banking processes
• Reducing the human mistake/effort in banking operation

Objectives
➢ Creating software to enable automation in interaction of Core Banking and Domestic payment gateway
➢ Research and provide knowledge about Core Banking to stakeholders
➢ Research, analyze and develop software for FPT Information System – Bank and Finance

Applied Technology
ORACLE PL/SQL, ORACLE, JAVA

Deliveries
❖ Administrator – This module provides tools for managing, supporting, maintaining the system.
❖ Payment Center – This module handles messages, incoming and outgoing messages to initialize and transfer between payment gateways.
❖ Report System – This modules provides tools to create reports using stored procedures and templates suits the users' needs.

Challenges
Lack of Banking and Finance knowledge
Lack of experiences in Java Programming
Limited access to client working environments
Testing and auditing quality software assurance

Accomplishment
✓ Provide simplified banking procedures between Core Banking and Domestic Gateway
✓ Advance banking transactions and automate banking processes
✓ Provide new, modern technology in business transaction to achieve best finance and banking outcome



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Local Payment Group - Client: FPT Vietnam

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AUT UNIVERSITY NEW ZEALAND

BOSCH

eVoting Blockchain

Team Member: **Nguyen Trong Tri** 16943739

Team Member: **Pham Huynh Tri Minh** 16942517

Supervisor: **Msc. Le Ngoc Son** HCMC University of Science

Client: **Mr. Hoang Le Minh** Robert Bosch Engineering and Business Solutions Vietnam Co., Ltd

Objectives

- Research Blockchain technology
- Study voting issue
- Come up with solution
- Build POC eVoting blockchain product

Voting Issues

- Rely on 3th party
- Data is not transparent
- Lack of robustness
- Personal information is insecure

System Workflow

Diagram showing the flow: User → Connect → VoteChain → Blockchain Network → Result. Includes labels for 'Send transactions', 'Return', and 'Blockchain'.

Achievements

- Objectives: All objectives proposed have been fulfilled.
- Knowledge and Experience: Gained in blockchain.
- Technologies: Hands-on with Solidity, JavaScript, and Node.js.
- Competency: Soft skills and technical skills.

Challenges

- New technology
- First time apply Scrum
- Miscommunication
- Build product from scratch

Future Works

- Deploy product
- Improve UX/UI
- Optimize Smart Contract
- ... feature

Progress Tracking

Timeline: Research (April 1-4), Development (April 5-10), Test (April 11-16). Includes icons for 'Peer Review', 'Test Life Cycle', and 'Tracking Changes'.

Technology

Stack includes: Truffle, Ethereum, Angular, HTML5, CSS3, Bootstrap, Node.js, Express.js, MongoDB, and others.

Product

Screenshots of the eVoting Blockchain application interface.

Quote: "Chương trình này không hề xoay quanh những bài học khô khan mà mang đến cho em một môi trường học tập vui vẻ, học mà chơi, chơi mà học."

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Sotobis Application Group - Client: Robert Bosch Engineering and Business

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Event Management system Group - Client: Amaris Vietnam



HCMUS Attendance Checking System Group - Client: HCM University of Science