

PUMIPUT CHAICHAT

COMPUTER SCIENCE STUDENT

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As a student of Computer Science at Thammasat University with a keen interest in data science, I'm excited to apply my skills and knowledge in a professional setting. Through my coursework, I've gained a strong foundation in coding, data structures, and algorithms, and have also taken courses in user acquisition, design, and other relevant areas. I have experience developing projects demonstrating my ability to apply my technical skills to real-world problems, including my final project, the FraudCheck web application. My passion for data-driven insights and my desire to learn and grow in a data science. I'm a dedicated and motivated individual with a strong work ethic and a willingness to adapt and learn new skills as needed.



Education

2018 - Present

Thammasat University, Bachelor of Science in Computer Science

Relevant courses

Began studies in 2018, building a strong foundation in core Computer Science subjects, including Calculus, Statistics I & II, and fundamental programming concepts.

Teacher Meeting Petition Project | Jul 2021 – Sep 2021 - Developed a web application for streamlined student-teacher meeting scheduling, allowing calendar-based booking and file attachments.

BraceLock Project | Jul 2021 – Oct 2021 - Designed an anti-theft device with a Figma interface, sensor-based unlocking, and GPS distance display, enhancing security.

Design Vaccine App Project | Aug 2021 – Nov 2021 - Analyzed diverse age group scenarios to design and optimize a mobile vaccine booking application for maximum usability and optimal outcomes across all users.

TU App Project | Jul 2022 – Oct 2022 - Developed a unified web platform to centralize student assignment submissions across various university LMS (e.g., TU Moodle, MS Teams, Google Classroom) with deadline notifications.

PM2.5 Dust Alert Project | Jan 2023 – Mar 2023 - Developed an IoT-based system for PM2.5 dust monitoring and Line notifications, involving circuit planning, Arduino C programming (Tinkercad), and sensor integration.

FraudCheck Web Application (Final Project) | Feb 2024 – Sep 2024 - Developed a secure web application for pre-transfer fraud checks using Laravel (PHP), HTML, CSS, JavaScript, and MySQL. Features included search, reporting, and advanced security (PDPA, OTP, ID validation, role-based access control).

2014 - 2017

Completed High School at Udonpittayanukoon School, Udon Thani Thailand

Science - Mathematics Program

Traditional Football Competition Participant | 2016 - Participated in the traditional football competition activities as part of senior year high school, showcasing my athletic abilities and passion for sports.

Dharma Camp Activities | Veruwana garden meditation Center | KhonKaen | 2015 - Assisted with various camp duties such as meal preparation, cleaning, and maintenance, modeling a spirit of service and cooperation. Gain Knowledgeable about Buddhist philosophy, ethics, strong communication and interpersonal skills.

Teacher's Day Representative | 2015 - Selected as a representative to pay homage to Teacher's Day on behalf of the student body, recognizing the important role of educators in shaping the future of our society.

Reading Promotion and Drama Performer | School library day | 2014 - Performed a drama on the library day, playing the role of Sunthorn Phu, a renowned Thai poet and playwright, and bringing his life and works to vivid and engaging life for a diverse audience.

2011 - 2013

Completed Middle School at Udonpittayanukoon School, Udon Thani Thailand

Middle School Football Tournament Winner | 2013 - Led the team to victory in the Middle School Football Tournament, showcasing my athletic abilities and leadership skills. Strong passion for sports, particularly football, and a commitment to maintaining a healthy and active lifestyle.

Participate in cheer activities at sports events | 2011 - Engage with the crowd and build a sense of community and school pride, fostering a positive and inclusive environment for all students and fans.

2005-2010

Completed Elementary school at Don Bosco School, Udon Thani Thailand

- Developed a strong foundation in core subjects such as mathematics, science, English, and social studies.
- Participated in various activities and events, such as sports day, fostering a sense of teamwork, sportsmanship, and cultural awareness.
- Developed study habits and a passion for learning, setting the foundation for future academic and personal success.



Feb 2024

- Sep 2024

FraudCheck Web Application

- FraudCheck Web Application (Final Project) Developed a comprehensive web application using Laravel (PHP), HTML, CSS, JavaScript, and MySQL to allow users to search for potential fraudsters before money transfers. This project included core features like a search system, report submission, and petition system, alongside advanced features such as data censoring (PDPA compliance), OTP verification, Thai National ID validation, user authentication (login/registration), and role-based access control (Admin/User). Utilized VS Code as the primary development editor, demonstrating strong full-stack development and problem-solving skills in creating a secure, data-driven solution for real-world financial security.
- Skill Acquisition: Dedicated 4 months (Feb 2024 - Jun 2024) to learning the necessary programming languages and tools.
- Project Development: The actual development of the project took place over 3 months (Jun 2024 - Sep 2024).

Jan 2023

- Mar 2023

PM2.5 Dust Alert Project

- Created an Arduino project to measure PM2.5 dust in the air by connecting a dust sensor to an Arduino MCU board and displaying the PM2.5 value on an LCD screen.
- Completed the project over a period of 2-3 months while studying at Thammasat University.

July 2022

- Oct 2022

TU App Project

- Designed an interface for an application that streamlines student submissions to university applications such as TU Moodle, Microsoft Teams, and Google Classrooms using Figma.
- Conducted user research and incorporated feedback to improve the design and development process.
- Developed connections between TU App and university applications to simplify the submission process for students.
- Demonstrated project to peers and received recognition for successful implementation and design.

Aug 2021

- Nov 2021

Design Vaccine App Project

- Design a mobile application that enables users to book vaccination slots and select preferred COVID-19 vaccines, along with hospital locations for receiving injections
- Users can their vaccination appointments online without having to physically go to a hospital or vaccination center.
- Users can avoid waiting in long lines or making phone calls to schedule appointments, saving them valuable time
- Users can receive real-time updates about vaccination availability, changes in scheduling, and other important information.
- Vaccine application can help reduce the risk of exposure to COVID-19 or other illnesses by minimizing in-person interactions.

July 2021

- Oct 2021

Bracelock Project

- Design interface with Figma Develop an anti-theft device with a sensor system that unlocks only when the bracelet is scanned within a certain distance. The GPS system will also display the distance as a digital number on the monitor.
- The benefit is to prevent theft and provide consumers with peace of mind when leaving their belongings behind

July 2021

- Sep 2021

Teacher Meeting Petition Project.

- Design web application that allows student to schedule meetings with teachers by selecting a date and time from a calendar.
- This application is designed for teachers and students to have the same meeting date and time.
- Able to select the date and time in the calendar.
- Able to attach files or documents to teachers



Activities

Community Service events

- Assisted in flood relief efforts and problem-solving for Rangsit community.

Environmentalism

- Contributed to Thammasat University's waste disposal and separation project in support of the Green University initiative and AEC.

Volunteerism events

- Volunteered at Taweewit School to promote problem-solving skills and assertiveness in youth through drama performances.



Technical Skills

- Programming Languages:** Java, Python, C, JavaScript, HTML, CSS, PHP
- Database Systems:** SQL, MySQL, XAMPP, Data Modeling, Relational Database Design, SQL Optimization
- Web Development:** Laravel, REST API, Frontend – Backend Development
- Cloud Platforms:** AWS
- Software Engineering Principles:** Software Development Lifecycle, Project Management, Agile Development, Software Testing, Software Maintenance, Security-Aware Development Practices
- Data & Algorithms:** Data Structuring, Algorithmic Design, Algorithms & Automata Theory, Big O Notation, Graph Theory, Dynamic Programming, Statistical Reasoning
- Operating Systems:** Command-line Interfaces, File Management, Process Management, Memory Management
- Object-Oriented Concepts:** Classes, Inheritance, Polymorphism
- Artificial Intelligence Fundamentals:** AI, Machine Learning, NLP (Natural Language Processing), Computer Vision
- Computer Systems & Organization:** Assembly Language, Machine Language, Registers, Memory Management
- Tools & Utilities:** Tinkercad, Git, GitHub, Command Prompt, PowerShell, Figma, draw.io
- Design & Analysis: UI/UX Design & User Analysis



General Skills

- Problem-solving skills
- Critical-thinking skills
- Analytical skills
- User requirement analysis
- Machine Learning
- Creativity
- Algorithm
- Human information processing



Interests

BUSINESS

TECHNOLOGY

DRAWING

ARTIFICIAL
INTELLIGENCE (AI)

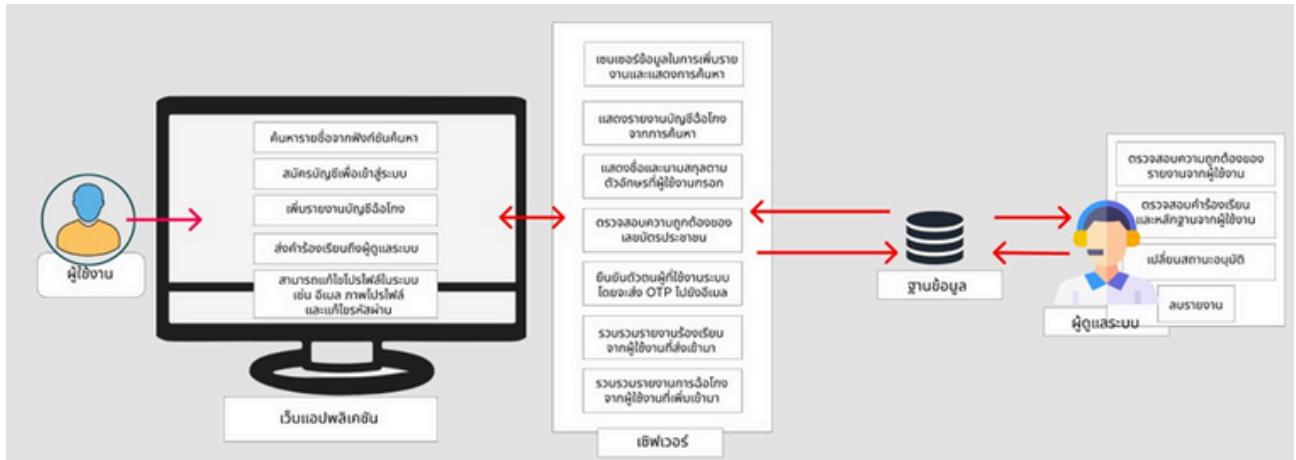
INVESTMENT

DATA SCIENCE

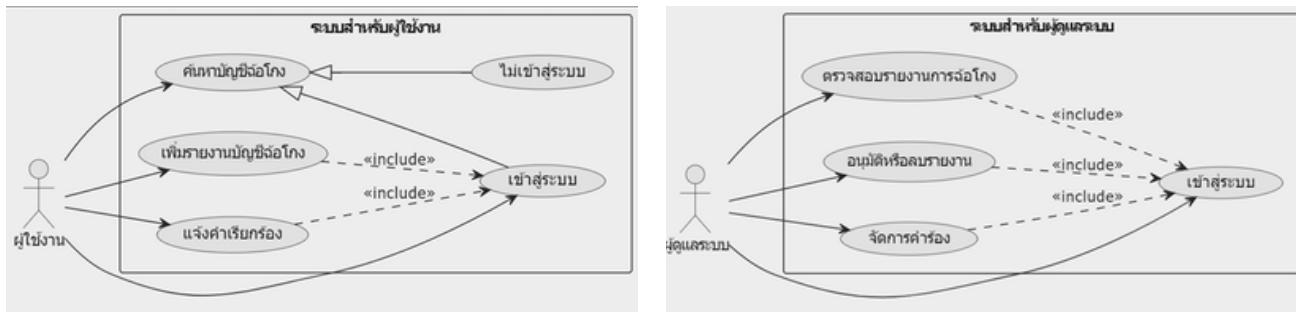
HEALTH &
EXERCISE

Developed a secure web application for pre-transfer fraud checks using Laravel (PHP), HTML, CSS, JavaScript, and MySQL. Features included search, reporting, and advanced security (PDPA, OTP, ID validation, role-based access control). Showcased full-stack and problem-solving skills

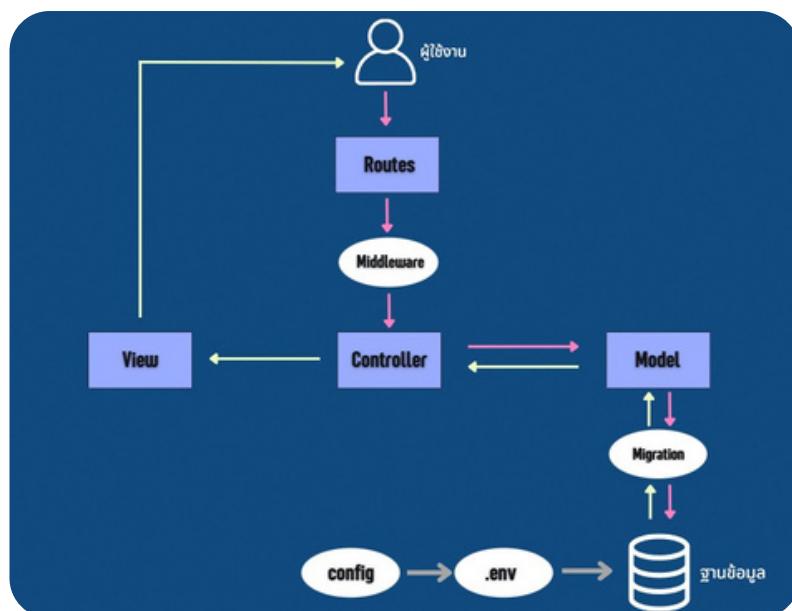
Overall Structure :



Usecase diagram :

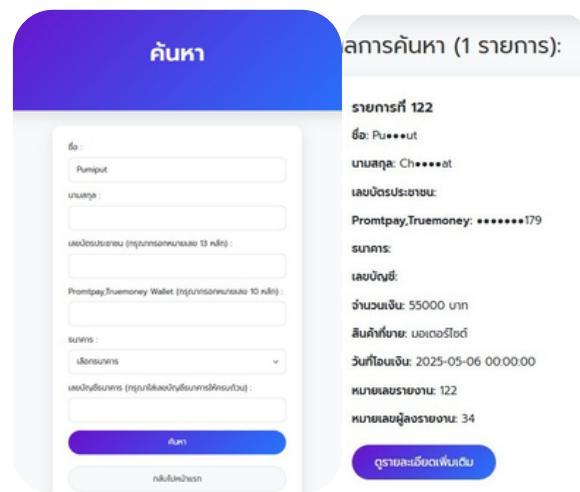
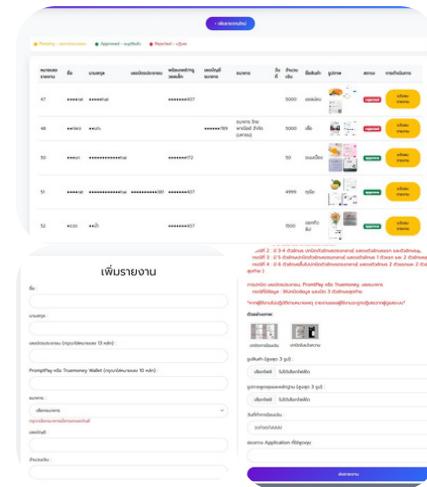


MVC Structure (Model, View, Controller) :



Results :

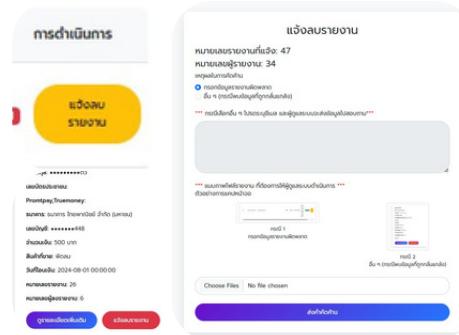
User System



Search and Display Results System



User Profile View on Login

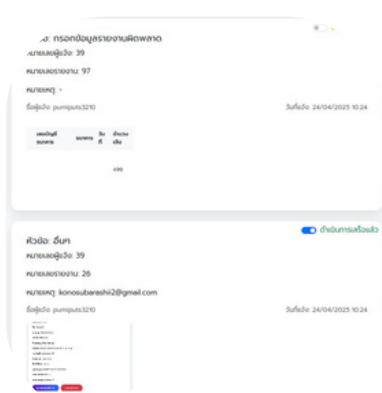


Report Deletion Request System

Admin System



Report Approval / Rejection System



Request Viewing System

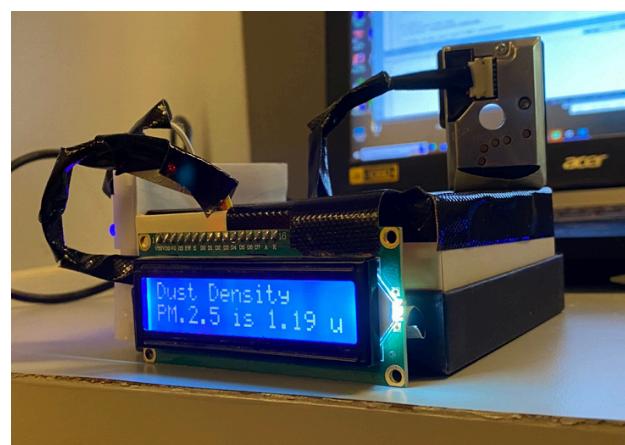
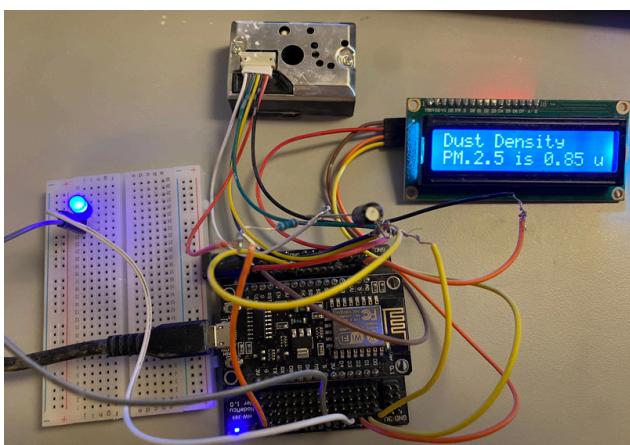
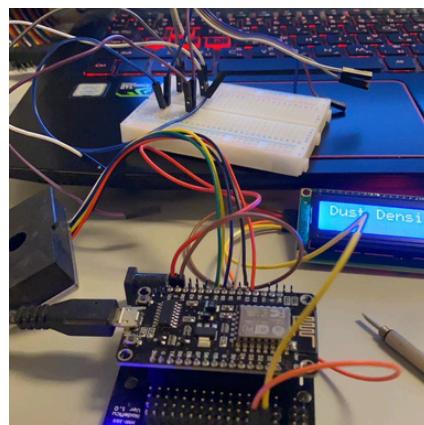
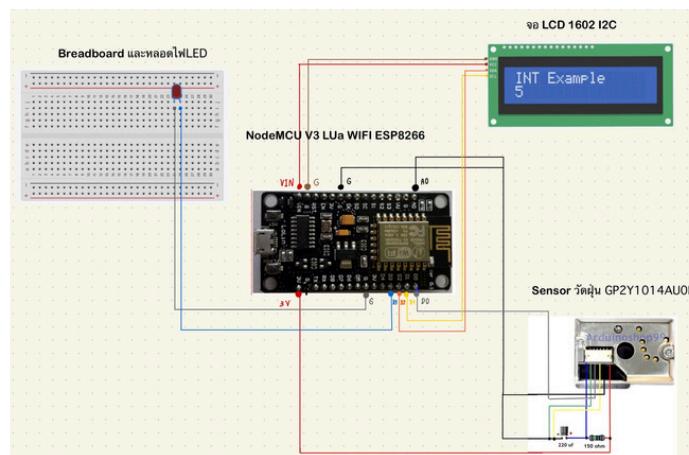
PM2.5 Dust Alert Project

Jan 2023 - Mar 2023

Developed an IoT-based system to monitor and alert on dangerous PM2.5 dust levels. This project showcased my abilities in system analysis and meticulous step-by-step planning, from procurement of essential components (e.g., wiring, Arduino boards, and dust sensors) to the final implementation. I utilized my C language programming skills within Tinkercad to develop the core logic for sensor data acquisition and processing. The system successfully provided real-time notifications via Line when hazardous dust levels were detected, demonstrating effective problem-solving and a tangible, positive outcome.

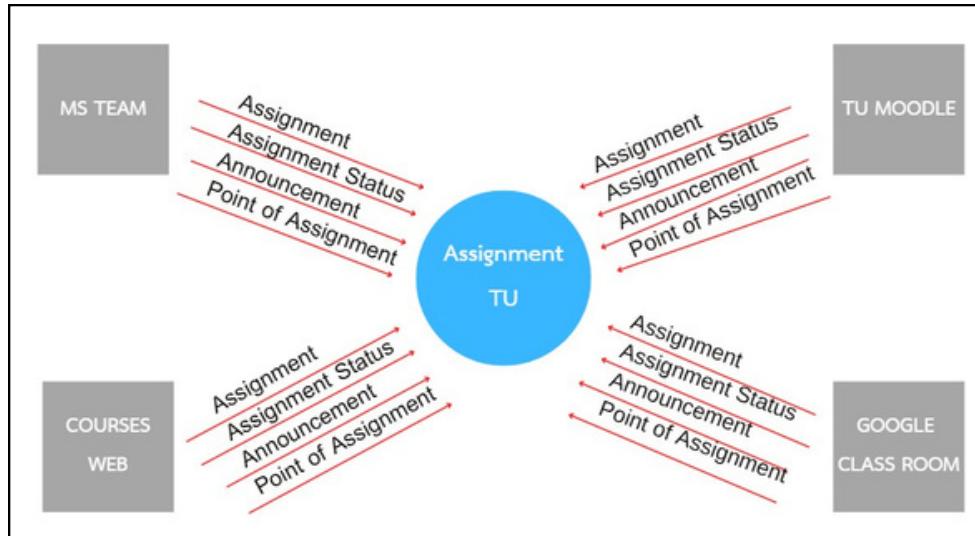
Overall Structure:

Results :

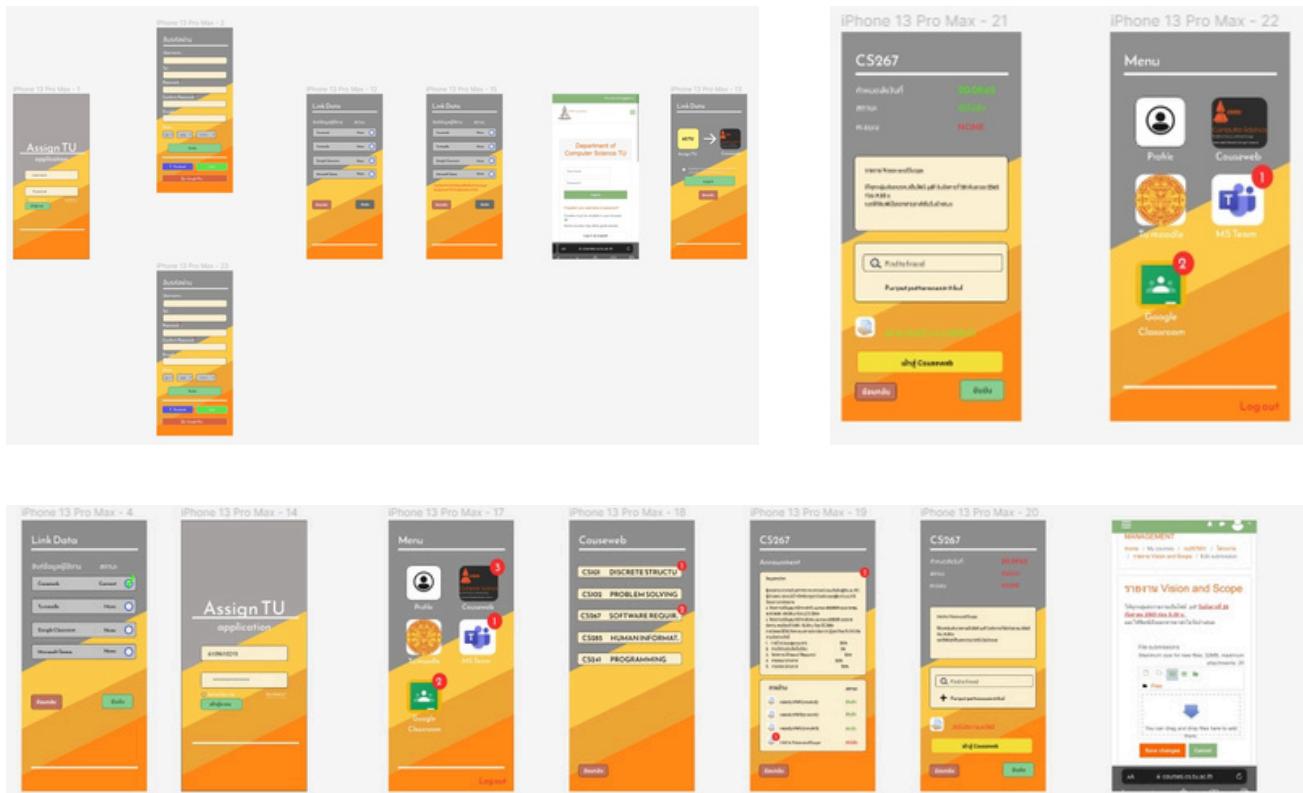


Developed a unified web platform designed to streamline student assignment submissions by integrating with various learning management systems (e.g., TU Moodle, Courseweb, MS Teams, Google Classroom). The application provided a centralized hub for submitting assignments and included a crucial feature for real-time deadline notifications to help students manage their tasks effectively.

Overall Structure :



Results :



Developed during the COVID-19 pandemic, this project focused on designing a user-friendly vaccine booking application suitable for all age groups (children, middle-aged, elderly). My process involved collecting and analyzing user scenarios from diverse age demographics to inform the design. The application allowed users to conveniently book vaccine appointments by selecting preferred dates and times, with the added flexibility to reschedule appointments, ensuring ease of use and accessibility for everyone.

Overall Structure :

Analyzed diverse age group scenarios to design and optimize the application for maximum usability and optimal outcomes across all users.



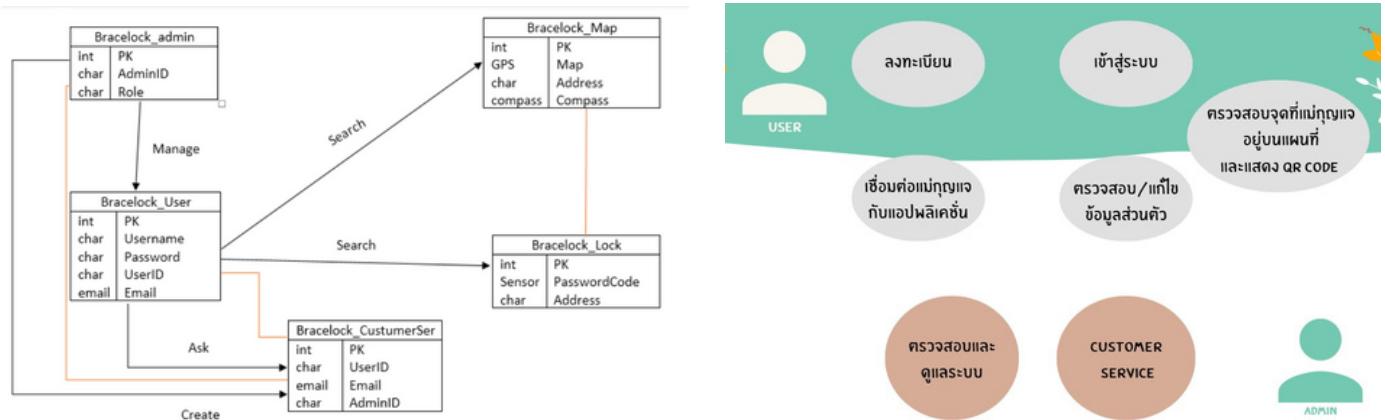
Results :

The screenshots illustrate the final product of the vaccine booking application, designed to be accessible and user-friendly for different age groups. The interface includes:

- Home Screen:** Shows a large 'My Vaccine' logo with a heart icon, a QR code, and links for 'จองฉีดวัคซีน' (Book Vaccine) and 'ดูผลฉีดวัคซีน' (Check Vaccination Result).
- Booking Screens:** Multiple versions of the booking screen for different users. One shows a list of available slots for 'วันนัดหมาย' (Appointment Date) on Feb 22, 2021, with time slots from 08:00 to 15:00. Another shows a detailed view of a selected slot, including patient information (Name: กัญญา เลิศรส, ID: 1-0000-11111-00-1, Date: 12-04-2542) and appointment details (Time: 10:00-11:00).
- Calendar View:** A calendar showing the month of February 2021 with specific days highlighted in green (e.g., Feb 22) to indicate availability or importance.
- Profile View:** Displays patient details such as name, ID, date of birth, and contact information.

Designed and developed an anti-theft device featuring a Figma-designed interface and an integrated sensor system. The device ensures security by unlocking only when a corresponding bracelet is scanned within a specified proximity. It also includes a GPS system to display the digital distance on a monitor, effectively preventing theft and offering users peace of mind when leaving their belongings.

Overall Structure :

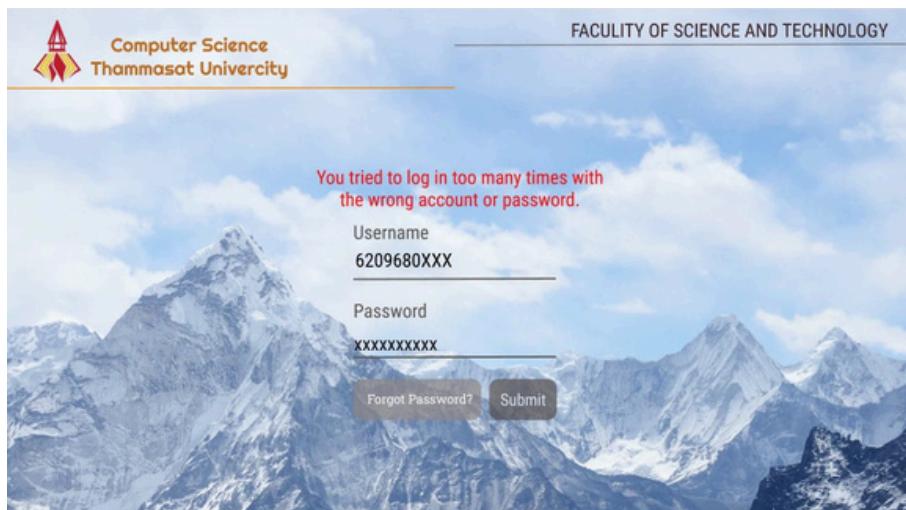


Results :



Designed and developed a web application to streamline student-teacher meeting scheduling. This platform allows students to easily book meetings by selecting available dates and times directly from a shared calendar, ensuring both parties have a synchronized schedule. A key feature includes the ability to attach relevant files or documents for teachers' review prior to the meeting.

Overall Structure and results :



Certifications

