Case studies

1. **Product: Trading Front-End for Deriv** Yashim Wong Abed El Aziz (Mentors)
   - How can we create a no-code, low-code, AI, or combined solution that powers a trading interface providing real-time analytics and personalized recommendations to clients based on their trading history and market conditions?

   - How can we improve the trading experience with the power of AI and no-code/low-code solutions?

2. **Customer Satisfaction: Client Sentiment Analysis Platform** Barno Khaydarova Logapriya Nagappan Seri Amirah (Mentors)
   - Create a platform using no-code, low-code, AI, or both to analyze client feedback from multiple channels (e.g., social media, emails, chats) to gauge overall sentiment. The platform should automatically identify and categorize feedback by sentiment (positive, negative, neutral), urgency, and potential brand impact using advanced natural language processing (NLP). It must also handle sensitive content and flag critical issues (e.g., compliance, fraud, security concerns) for immediate escalation and resolution. Additionally, the platform should provide actionable insights to improve client satisfaction and preempt potential PR issues.

3. **Risk Management: Real-Time Risk Management System** Yng Shan Tan Kuan Lim Phang Kai Jie Tang (Mentors)
   - Develop an innovative real-time system for the company, leveraging no-code, low-code, AI, or a combination of these technologies to monitor and manage risk factors in fast-paced trading environments dynamically. The system should continuously assess trades and exposures at both the client and aggregate levels, applying appropriate risk metrics to deliver forward-looking insights and seamlessly adapt to shifting market conditions. By proactively identifying potential risk scenarios, the solution will enable automated, targeted risk management actions, ensuring timely and informed decisions for stakeholders.

Security & Fraud:

4. **Security Analyzer** Shantanu Tan Weng Onn Sathish Badrinarayanan Marianne Wong (Mentors)
   - Build a no-code, low-code, AI, or combined tool that fetches security logs from a system/application, analyzes them to detect malicious patterns, contextualizes them, and builds a story around the incident (timeline of events) with actionable next steps.

5. **Fraud Detection System** Rajveen Kumar Maisarah Zain (Mentors)
   - Develop a no-code, low-code, AI, or combined system to identify and flag potentially fraudulent transactions or activities in real-time. The system should be able to learn from past incidents and continuously improve its detection capabilities.
     - **Examples of flags:**
       - Using the platform for only payments (deposits and withdrawals) and not trading.
       - Similar personal details with only slight variations.
       - A significant deviation from the past deposit or withdrawal amounts.

6. **Operational Efficiency: Automated Authenticity Verification for Proof of Identity and Address Documents** Jonathan Joseph Azlyana Azhar Kumaresan Suppiah Kirill Sysoev (Mentors)

- Build a no-code, low-code, AI, or combined tool to verify the authenticity of **Proof of Identity** and **Proof of Address** documents submitted by users. The tool will utilize machine learning and optical character recognition (OCR) technologies to detect forged, altered, or AI-generated documents. It will cross-reference data with public and private databases to validate the information, ensuring secure and compliant identity verification processes. This will support enhanced due diligence in KYC (Know Your Customer) procedures while maintaining fair and accurate verification practices.