UC 2025 CS Capstone Team Contract

<u>Team members:</u>
- Chau Nguyen
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- Tiep Tran
  - Computer Science Senior // tran2tp@mail.uc.edu
- Jack Nguyen
  - Computer Science Senior // nguye2lo@mail.uc.edu

<u>Expected timing and frequency of team meetings:</u>
- **Twice** a week, **1-2 hours** for each meeting.

<u>Project focus - Midea Sponsored Project:</u>
- *Problem*
  - Cross-check receipts with bank statements.
  - Ensure the receipt amount matches the bank statement amount.
  - If a receipt is missing or mismatched, a warning system should alert the owner.
  - When amounts match, purchases must be classified into specific categories.
  - Purchases then need to be added into a Vendor Expense Claim Excel sheet with detailed purchase information..
- *Proposed Solution* - A system that:
  - Match receipts to corresponding bank statement entries.
  - Detects and flag missing or mismatched receipts.
  - Predict categories for valid purchases using NLP/ML methods.
  - Populate a structured Vendor Expense Claim Excel sheet with validated and classified data.
- *Proposed Stack*
  - Python NLP libraries (e.g., spaCy, NLTK, or Hugging Face Transformers)
  - Internal AI tool provided by Midea
  - AWS services (e.g., AWS Bedrock for LLMs, AWS S3 for file storage, AWS Lambda for automation, etc.)

<u>Roles:</u>
- Jack Nguyen: Developer
- Tiep Tran: Developer
- Chau Nguyen: Developer

<u>Contract signatures:</u>

Jack Nguyen's Signature	**Tiep Trans Signature**	**Chau Nguyen's Signature**
Jack Nguyen	Tiep Tran	Chau Nguyen