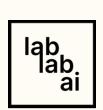




# Ready to Automate your Medical Coding?

Delivering Innovative Solutions for Better Health

Patient presented with severe chest pain; diagnosed with ST elevation myocardial infarction involving left main coronary artery, and underwent percutaneous coronary intervention











universal language

## What is (automated) medical coding?

Medical coding is the task of transforming medical records, usually presented as free texts written by clinicians, into structured codes in a classification system like ICD-10 (International Classification of Diseases, Tenth Revision) or CPT.

This system ensures that all medical activities are recorded in

For healthcare settings, it is a crucial tool for determining payments with insurance companies. For patients to understand the health care services received and verify discrepancies with their medical receipts.

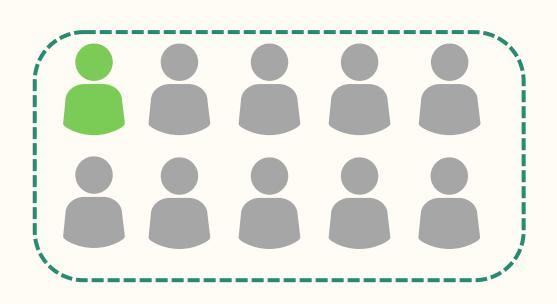


## A Problem for everyone

76% do not understand what is written in their EOB or itemised bills.

80% of medical bills contain errors.

But, only
one in 10
people
dispute
them.



Healthcare settings lose **\$26B** annually to errors due to medical coding.

More than 52% of medical coders work

manually

Source: JAMA Health Forum

#### Our Solution



#### **Automatic Medical Coder**



#### Multimodal



#### Self-Explanatory

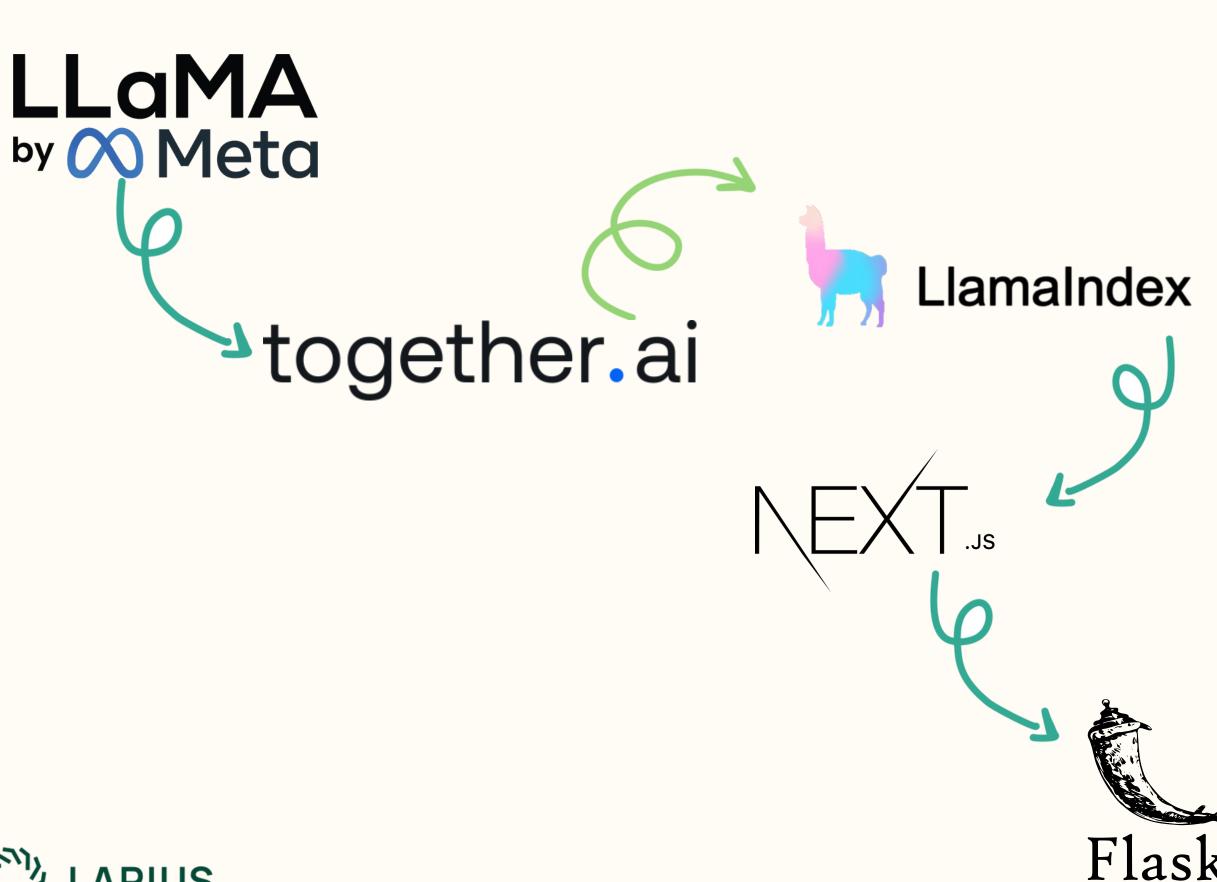
MoA-based medical assistant that assigns ICD-10-CM codes to each medical chart.

By leveraging a multimodal LLM such as Llama 3.2, the user can upload their own itemised bills or EOBs.

Through a RAG pipeline, the assistant is able to explain with textual references its choices.

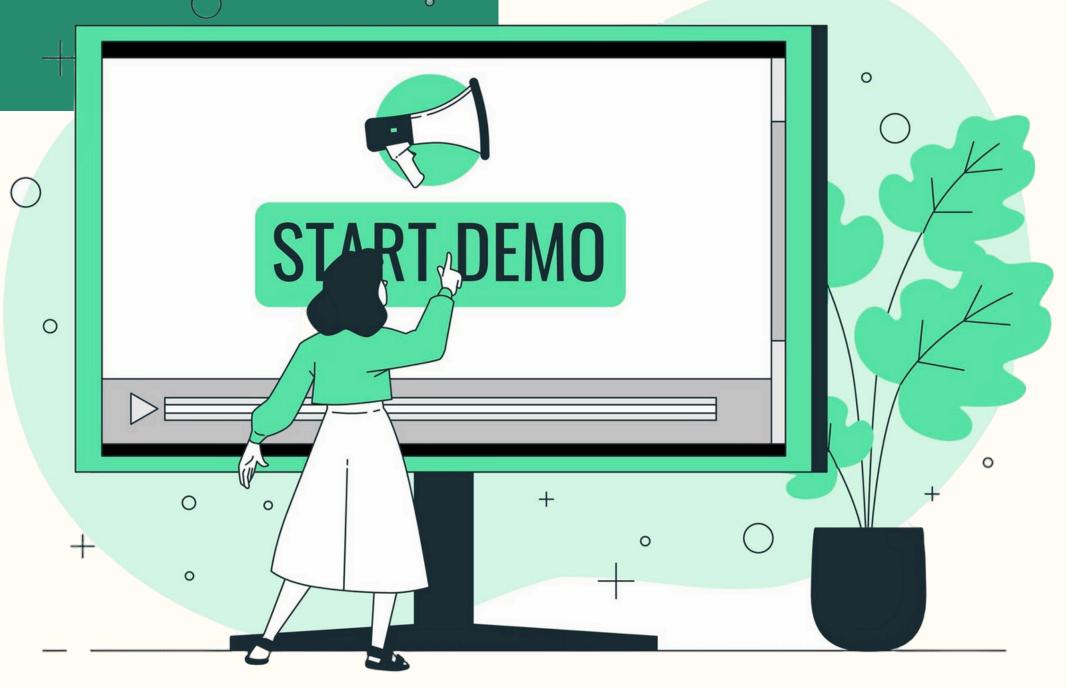


### TechStacks





## Our Demo





### Workflow

#### **Medical Record**

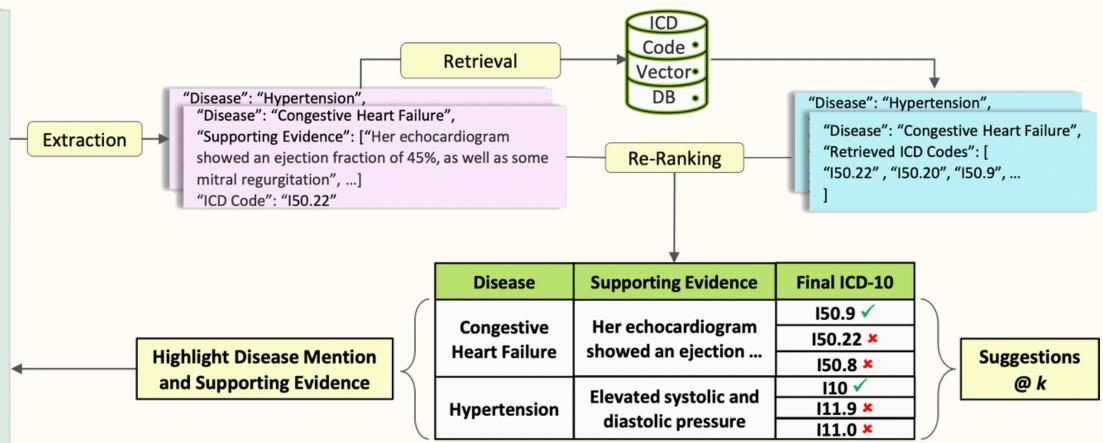
Martha Collins is a 50-year-old female with a past history of congestive heart failure who presents for her annual exam.

Congestive heart failure.

- Medical Reasoning: She has been compliant with her medication. Her echocardiogram showed an ejection fraction of 45%, as well as some mitral regurgitation.
- Additional Testing: We will order a repeat echocardiogram. We will also repeat a lipid panel this year.

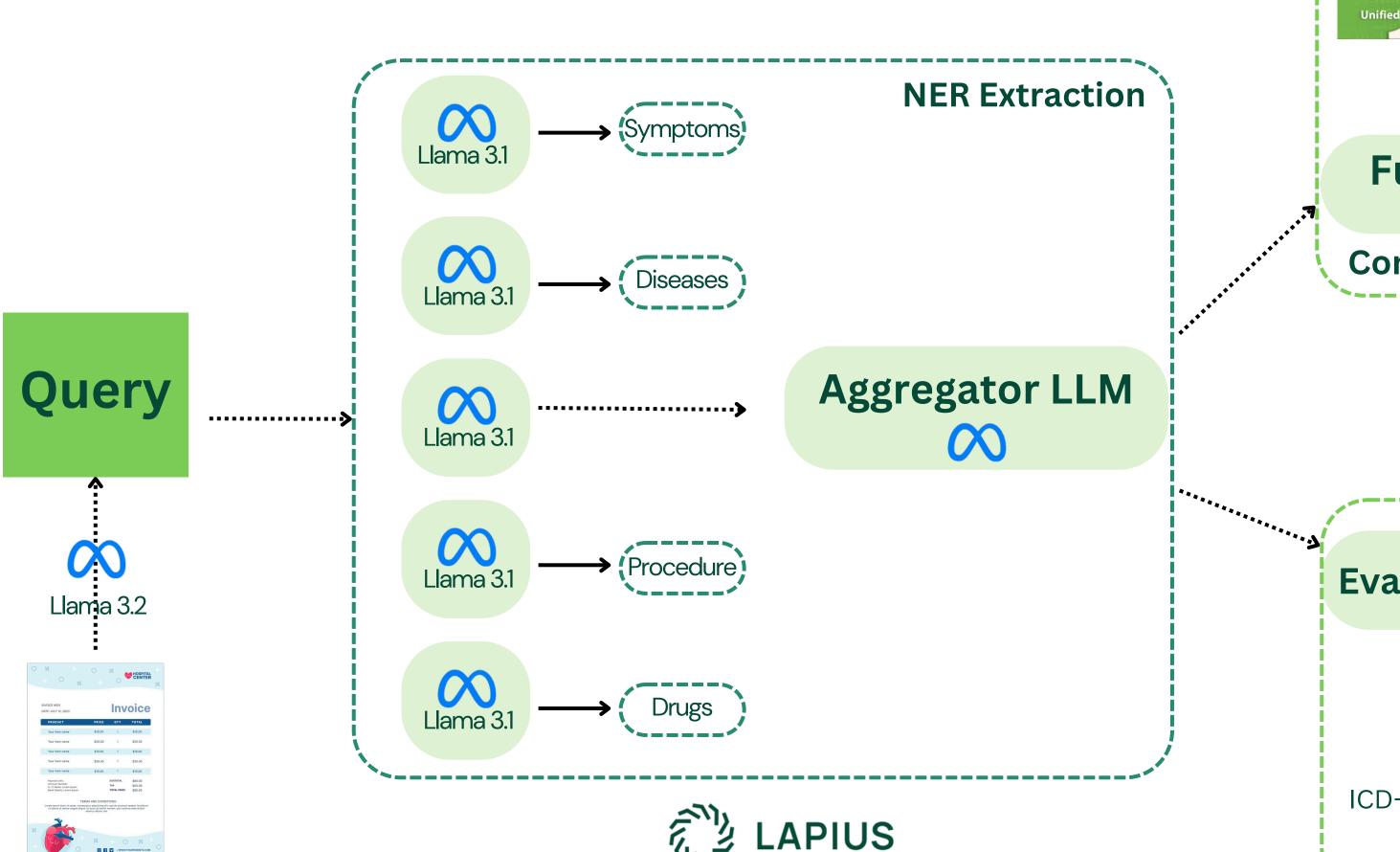
#### Hypertension

- Medical Reasoning: Elevated systolic and diastolic pressure.
- Medical Treatment: We will increase her lisinopril to 40 mg daily.





#### MoA Architecture



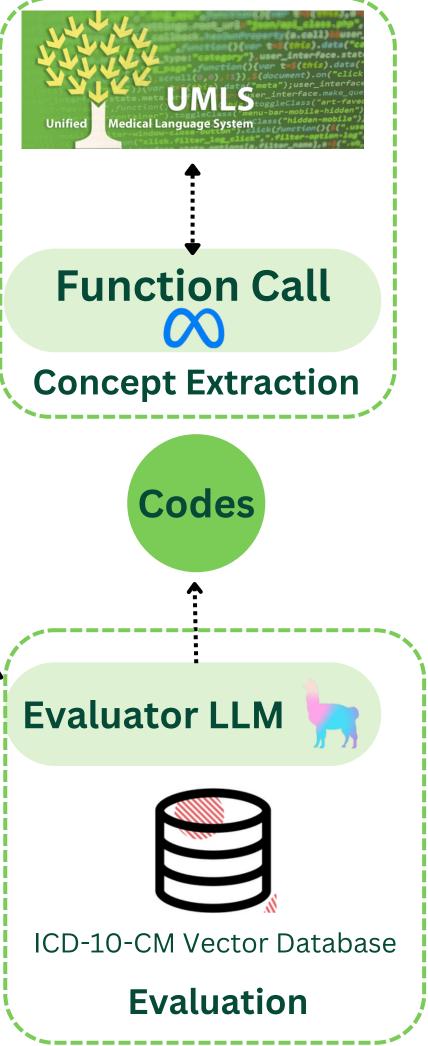


Image (png, jpg)

## An \$18B Industry Riddled with Errors

Market Size and Growth Potential

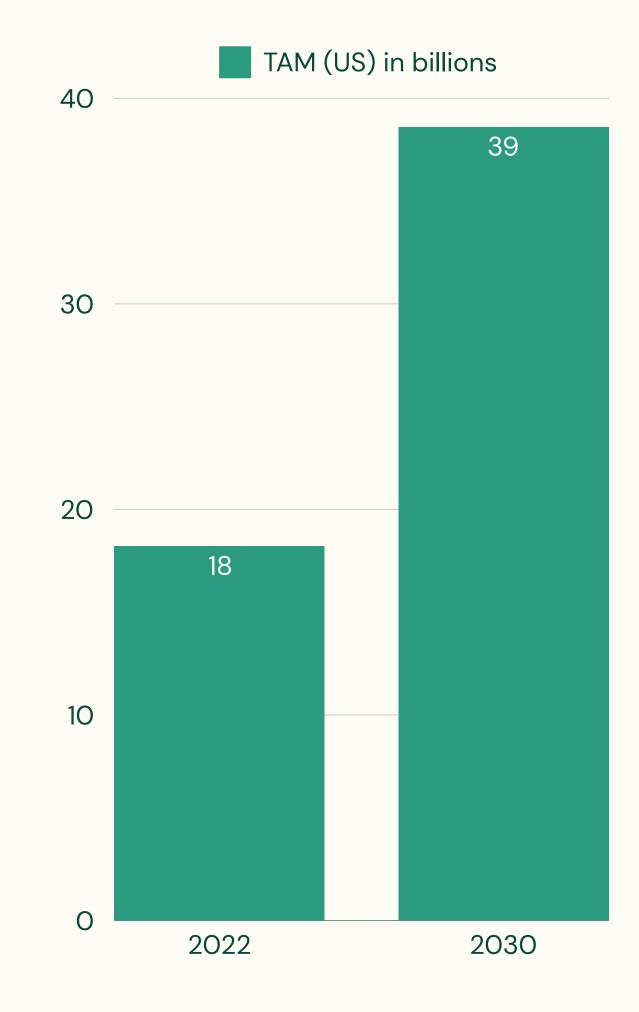
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The U.S. medical coding market size was valued at USD **18.2 billion** in 2022, and is expected to reach USD **38.6 billion** by 2030.

We target North American healthcare providers using EHRs, including hospitals, clinics, and private practices. With 88.2% of U.S. physician offices adopting EHRs, our serviceable market for medical coding is valued at \$16.05 billion.

52% of medical clinics still rely on manual processes for medical coding.





## Thank You So Much

