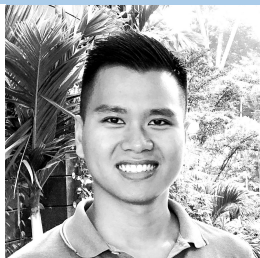EXPRESS SCRIPTS®

CORNELL TECH

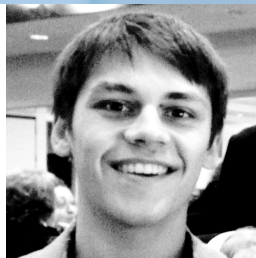# Team ZATAM

Zwee Dao
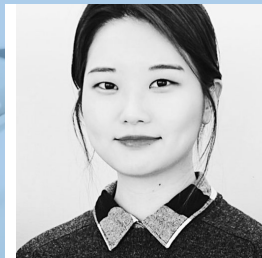ECE
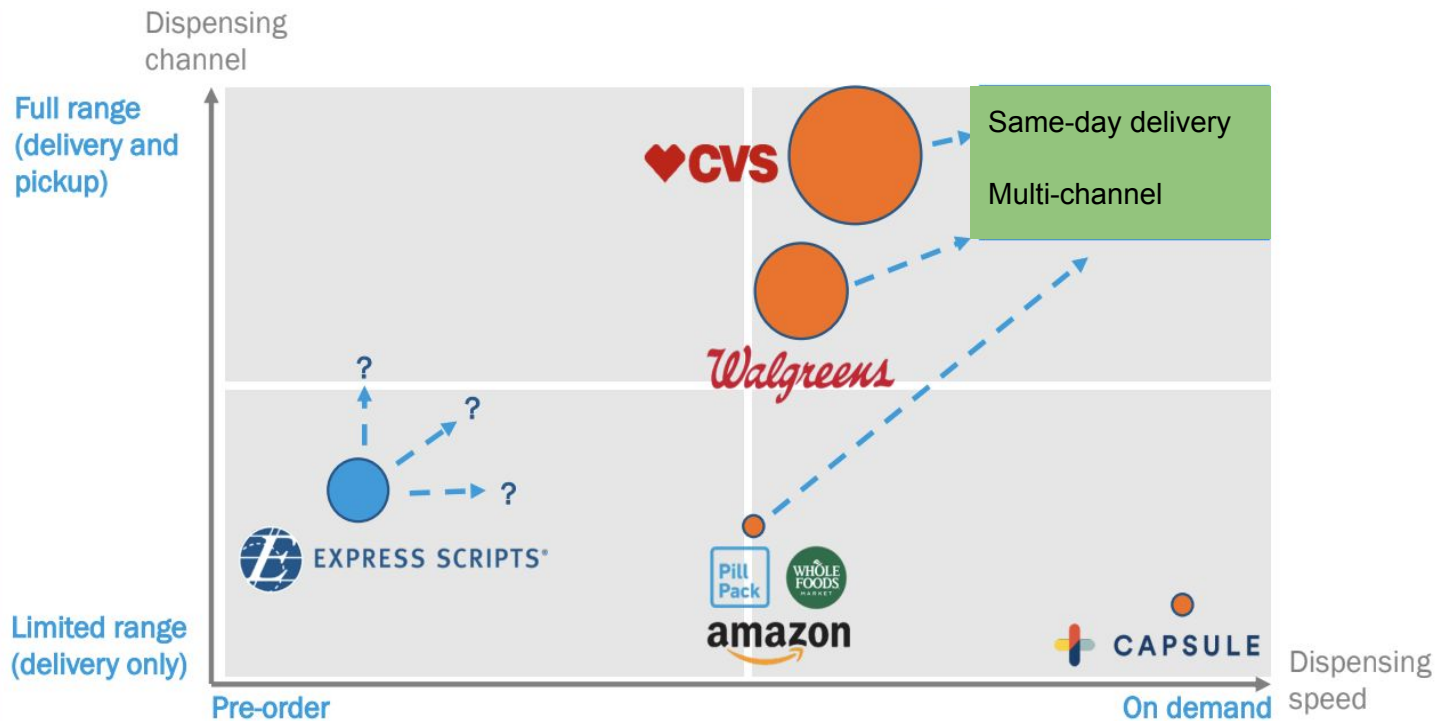
Ananya Shivaditya
CS

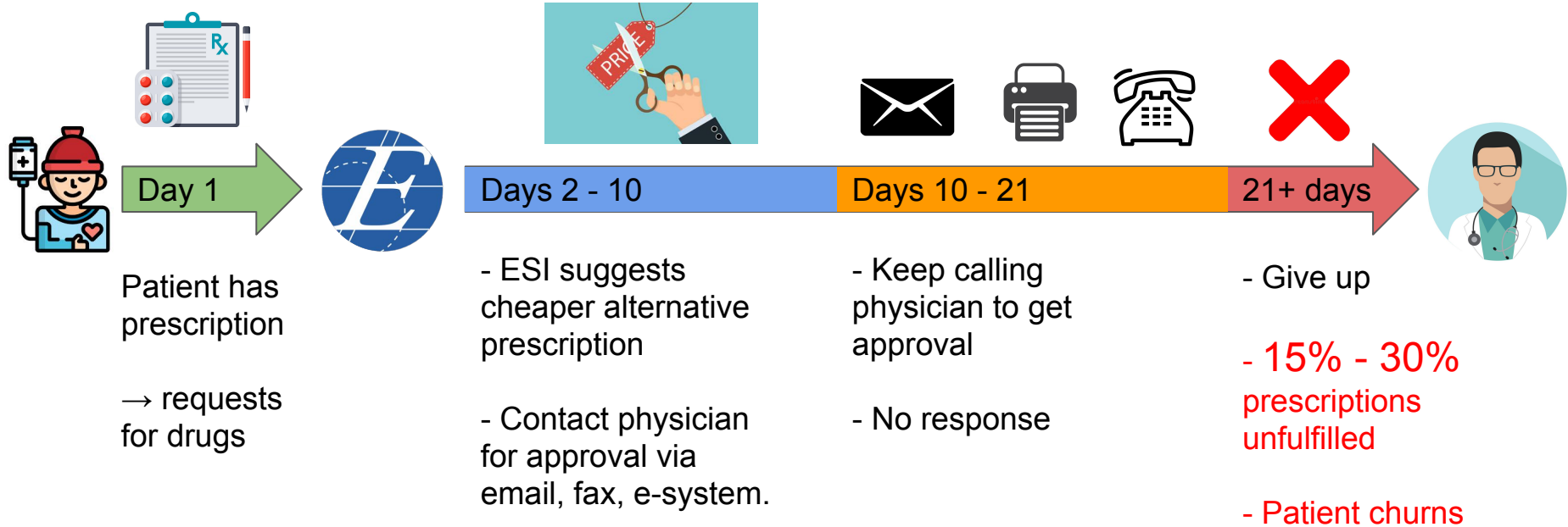**Terrill Jones**
ORIE

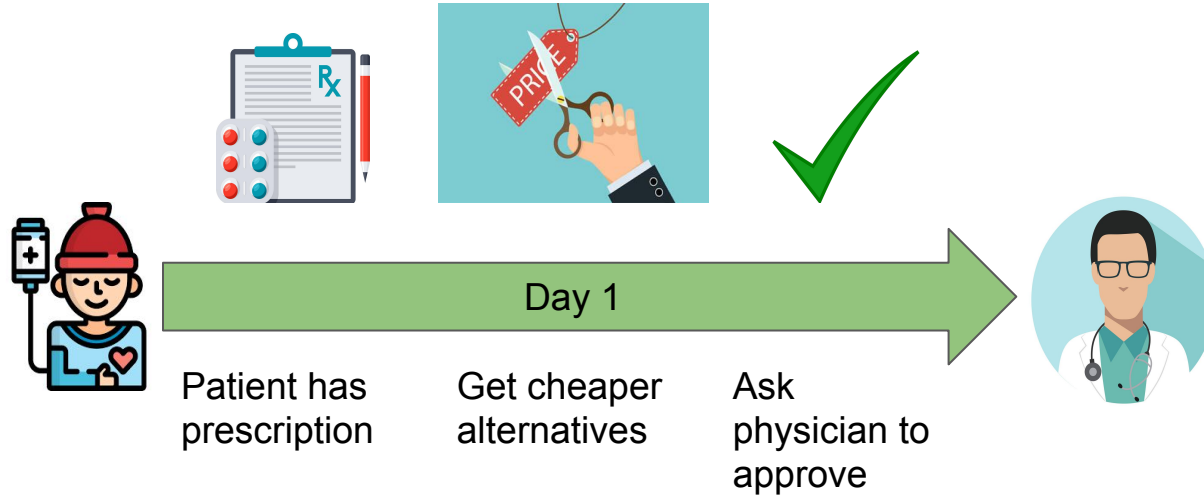**Avnish Kumar**
CS

Maddie Lee
Design

Pharmacy Trend: Fast & On-demand

Express Scripts' Problem: Slow Prescription Approval

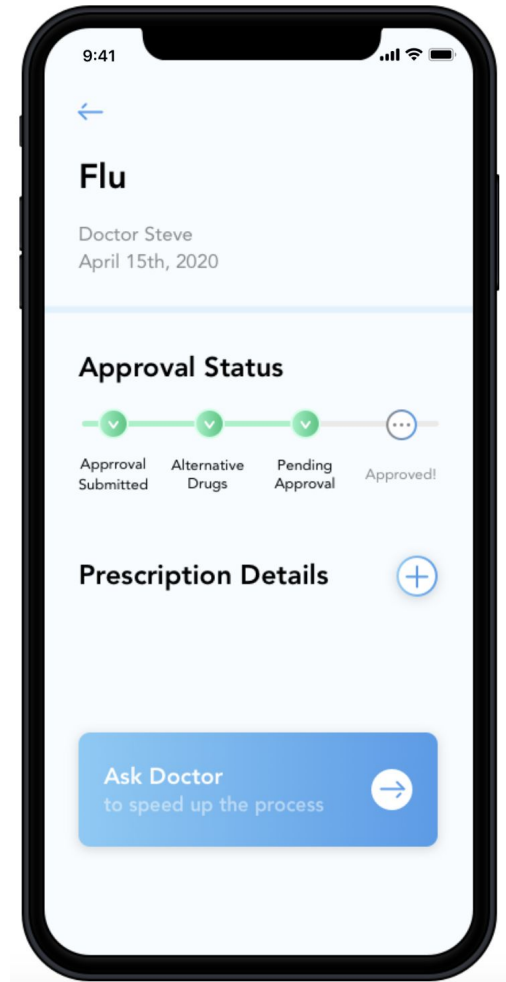# Solution: Power to Patients

Day 1

Patient has prescription

Get cheaper alternatives

Ask physician to approve

AutoMed

Demo: https://invis.io/JDX0J0SR9ZQ

1. Transparent approval process

2. Find cheaper drug alternatives

3. Ask doctor to speedup
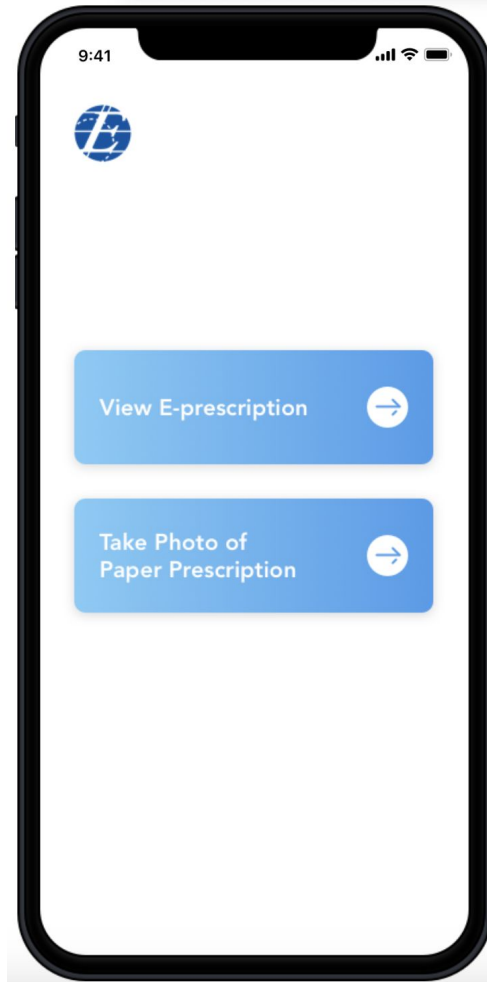
Physician's approval page

Patient	Doctor's Office
John Smith	Medical Centre

Recommendations

• Betaloc 100 mg		$ 6
~~Dorzolamidum A~~ ~~100 mg~~		$ ~~20~~
• Dorzolamidum B 100 mg		$ 10
• Cinetidine 100 mg		$ 4
• Oxprelol 50 mg		$ 5

Old Rx.	$ 35
Saved Amounts	$ 10
New Rx.	**$ 25**

Add Comment Edit

Approve →

Backend: OCR, Drug Detection & Recommendation

Demo: http://3.135.220.237:5000

ASPIRIN has 5 alternatives:

Rank	Alternate	Price
1	vicoprin	1
2	mepro-aspirin	1
3	propoxyphene hydrochloride w/ aspirin and caffeine	1
4	darvon w/ asa	1
5	excedrin (migraine)	2

VALIUM has 1 alternative:

Rank	Alternate	Price
1	valium	3

Market size: Reclaim the lost customers

30%   orders from new Patients switching from retails (e.g CVS)

15%   orders from returning Patients renewing prescriptions

50M   prescriptions

20B   annual revenue

Validation & feedbacks

- **Verified physician's problem:** too many incoming messages from pharmacy, can't prioritize

- **Verified user flow:** Different flows for e-prescription vs paper prescription

Next steps

- Combine 3 backend components flawlessly:

  - OCR

  - Drug detection ML model

  - Drug recommendation

Any Question?