Agapay is the flagship project of the De La Salle University Biomedical Devices Innovation and E-Health Research Group, whose vision is to bring biomedical engineering innovations to Filipinos and to people all over the world.

THE BURDEN OF STROKE
The World Stroke Organization warns that stroke has become an epidemic. In 2013, there were:
- 25.7 million stroke survivors
- 113 million disability-adjusted life years due to stroke
- 10.3 million new strokes

It is estimated that by 2030, there will be 70 million stroke survivors per year.\(^1\)\(^2\)

The burden is heavier for developing countries, where 70% of strokes occur\(^3\). In the Philippines\(^4\):
- Stroke prevalence is 0.9% 
- 500,000 Filipinos are affected by stroke annually
- $350 million to $1.2 billion in stroke healthcare costs

PROBLEM
- Traditional physical therapy methods are time consuming, labor intensive, and depend on the availability, physical strength, and endurance of an individual therapist
- A growing number of people need physical therapy
- Clinics experience a lot of strain and, sometimes, are unable to take in the surge of patients that they have to see everyday
- Long patient queues
- Lack of patient compliance with treatment regimens

THE SOLUTION
The Agapay Exoskeleton
- A 12-degrees-of-freedom system (shoulder, elbow, hand, and wrist movements) that provides high-performance rehabilitation system for post-stroke and injured patients
- Programmable range of motion to simulate arm, hand, finger, and wrist activities needed for daily living
- Tracks treatment progress in real-time, potentially leading to faster recovery
- Gamified physical and occupational therapy exercises

PROPOSED BUSINESS MODEL
- Agapay Rehabilitation Services – we operate single-specialty clinics that offer physical therapy with use of the Agapay exoskeleton. In Stage A, we seek to demonstrate the value of the exoskeleton and build trust and reputation among our customers.
- Agapay Exoskeleton Product – we distribute the device for use at hospitals, clinics, or a patient’s home.

WHAT WE NEED
- Mentors with healthcare industry expertise
- Manufacturing and value engineering

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