

# Business Case Study of DUOLINGO, THE EDTECH MASTERMIND

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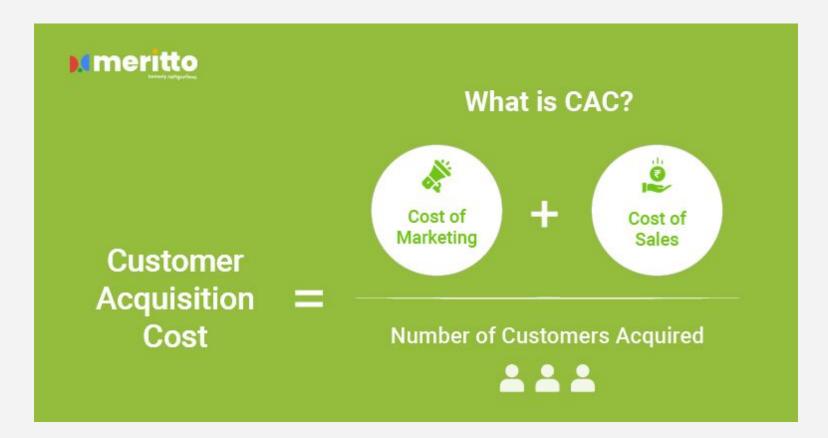
## Luis Von Ahn, The Founder of Duolingo



## The Downfall of Edtech Companies

- To build a sustainable business, you need to find a huge target addressable market.
- The rarest breed at entrepreneurs are the ones who don't just have a smart brain but also a big heart.
- The reason for sudden downfall of edtech companies is their excessive spending in the marketing strategy.

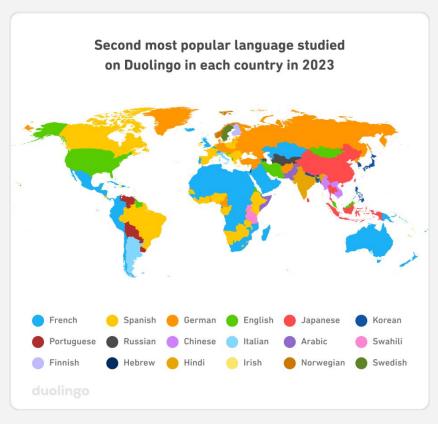
### **Customer Acquisition Cost**



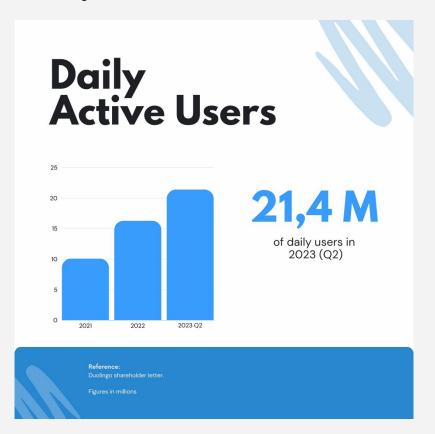
## Duolingo, The Game Changer

- Key to Edtech market: Not customer acquisition, customer retention.
- 74.1 million monthly active users in 2023 for Duolingo.
- Founded in 2011 by Luis Von Ahn.
- Over 800 million downloads, 2 million test taker all across the world.
- Duolingo stood at 16.3 million downloads in January alone.
- Duolingo retention rate is 68% in October 2023, higher than Candy Crush (64%).

## Duolingo Interest of People



## **Duolingo Popularity**



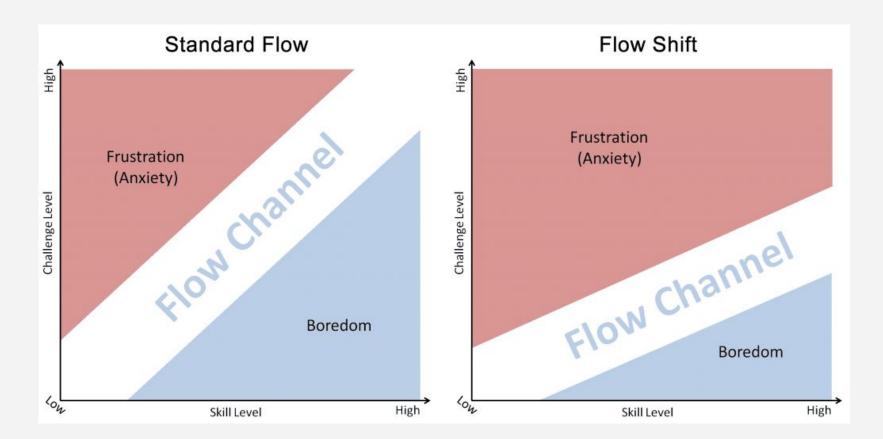
#### Luis Von Ahn Observation

- Learning language is less complicated that learning physics and computer science.
- Targeted addressable market (more than 1 billion people).
- Most of them want to learn English.
- Unable to afford \$500 teaching a class.
- Get a salary hike at a job.

#### Problem of Educational Tools and Courses

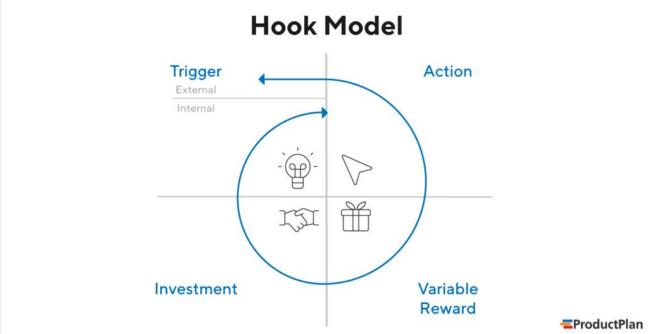
- Standard flow.
- Flow shift.
- Has to strike the perfect balance between the challenges in the course and the skill level of the students.

#### Standard Flow & Flow Shift



#### **Hook Model**

To make a customer engaged with you, you must build a habit forming product.



## Four Step Framework

- Trigger
- Action
- Investment
- Variable reward

## Trigger

- Basically a nudge to action.
- Lilly and duo, the muscuts of Duolingo.
- The best time to send those notifications is exactly 24 hours after the users last session.
- Duolingo will stop sending notifications after 7 days of inactivity.
- Because they stop sending you the notifications.
- They will send you a passive aggressive notification to come back to the app and started doing the exercise.
- Meme culture was used to market their brand.

# Lilly and Duo



## Passive Aggressive Notification



#### Action

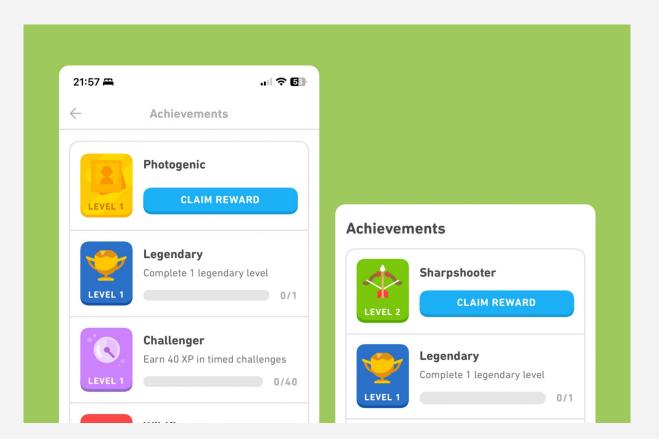
Smallest action that a customer does in anticipation of a reward.



#### Variable Reward

- Variable reward pattern is addictive from 1948 experiment.
- If a subject is given rewards in an unpredictable pattern than the subject will do the action way more frequently in anticipation of the unpredictable rewards,
- When you complete a lesson, you don't get a badge or a streak, you get experience points, which finally contributes to day streak.
- If you accomplish a certain numbers of tasks or stay consistent for a certain number of days then you even get a badge.

## Variable Reward in Duolingo



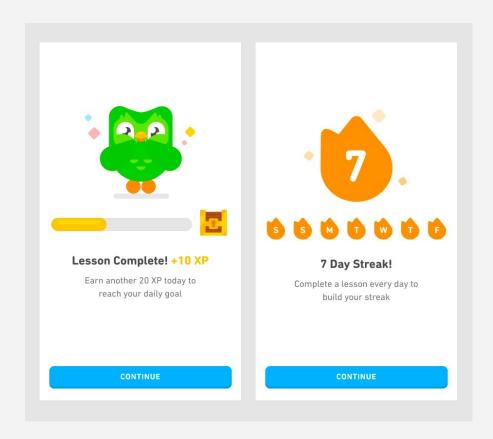
#### Investment

- When we voluntarily invest efforts time or money into a product, the product automatically becomes more valuable to us.
- Duolingo has introduced a combination at multiple features that make a user psychologically invest into the app streak.
- Because you put in your efforts and time into maintaining the streak,
   the streak itself becomes more and more valuable with him.
- Duolingo has 3 million learners who have a streak of 365+ days.

#### Investment

 Duolingo has perfected the use of positive and negative feedback such that learners are motivated to push themselves and not to be lazy.

# Day Streak in Duolingo



#### Hook of the Hook Model

- Duolingo starts with a trigger, which is their push notification and reminder.
- Makes the learner take an action, which is taken in anticipation of a reward which is their experience points streak and leadership.
- Eventually it leads to a psychological investment with which further leads to a trigger for learning which then brings back users to the app again.

## **English Proficiency Test Problems**

- TOEFL, IELTS.
- The cost problem (test fees Rs 16000).
- Free only to 5 colleges.
- For each additional universities another 250 rupees increase the total cost to apply.
- Limited test centre access (only in big cities).
- 78 test centers for IELTS, number of test taker estimated to be around
   1.3-1.4 million in India.

## **English Proficiency Test Problems**

 Testing centers have travel issues, vulnerable during conflict, natural disasters, public health crisis.



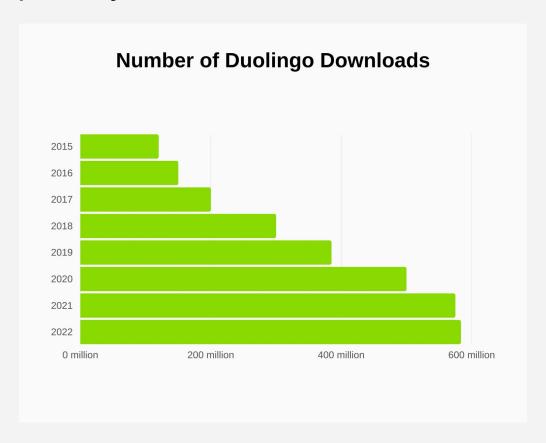
## Duolingo English Proficiency Test

- Low cost.
- Taken easily with laptops at house.
- Faster results.
- Send to unlimited schools for free.

# Duolingo League System



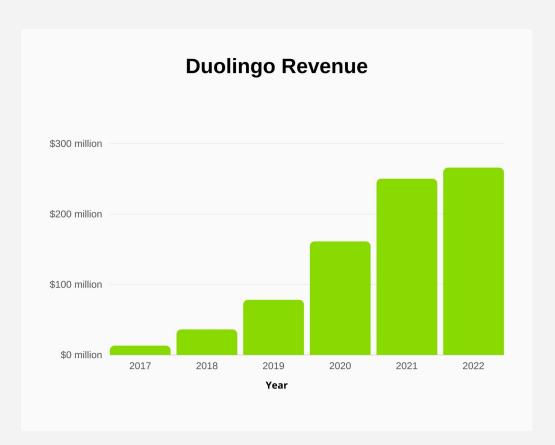
# **Duolingo Popularity**



## **Duolingo Popularity**



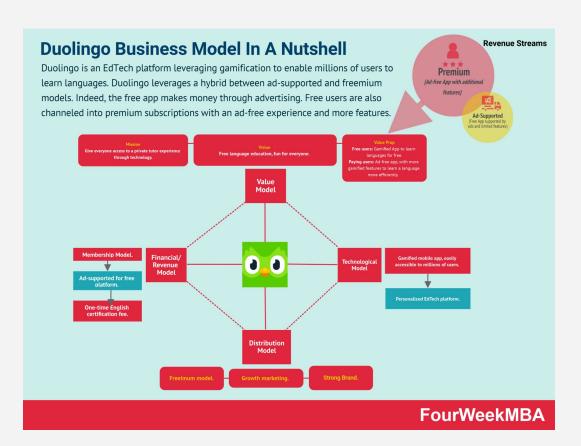
# **Duolingo Revenue Growth**



## **Duolingo Revenue Growth**



## **Duolingo Business Model**



## **Duolingo SWOT Analysis**



#### **Business Lessons**

- Most edtech companies are obsessed with customer acquisition great edtech companies obsess with customer retention.
- If you want to sustain in this crowded market of apps and products,
   you have to find a way to become a habit forming product.
- You need to understand that their is a huge target address in India,
   Africa and South America which still need life changing solutions and
   each of these problems are a stepping stone to help us find a million
   dollar business opportunity.