

WEEK 10: by-Manisha Pal

The notes are based on the discussion on Fintech company Paybuddy in lectures:

What is FinTech?

FinTech, short for Financial Technology, refers to the integration of technology into offerings by financial services companies to improve their use and delivery to consumers. It represents a rapidly growing sector that leverages technology to provide innovative financial services and products, ranging from digital payments and online lending to blockchain and cryptocurrency.

Key Areas of FinTech:

1. Payments and Transfers:

- Involves platforms that allow for seamless digital transactions. Examples include mobile wallets (e.g., Apple Pay, Google Pay), peer-to-peer payment systems (e.g., PayPal, Venmo), and remittance services (e.g., TransferWise).

2. Lending and Credit:

- Online platforms facilitate loans and credit services directly to consumers or businesses.

3. Personal Finance:

- Apps and platforms that help users manage their personal finances, offering tools for budgeting, savings, and investment management.

How Do FinTech Companies Make Profit?

FinTech companies employ various business models to generate revenue, often capitalizing on technology to provide services more efficiently and at a lower cost than traditional financial institutions. Here are some common ways they make a profit:

1. Transaction Fees:

- FinTech companies often charge a small fee for each transaction processed through their platform. For example, PayPal and Square take a percentage of each transaction made using their services.

2. Interest on Loans:

- Companies involved in digital lending and credit earn revenue by charging interest on the loans they provide.

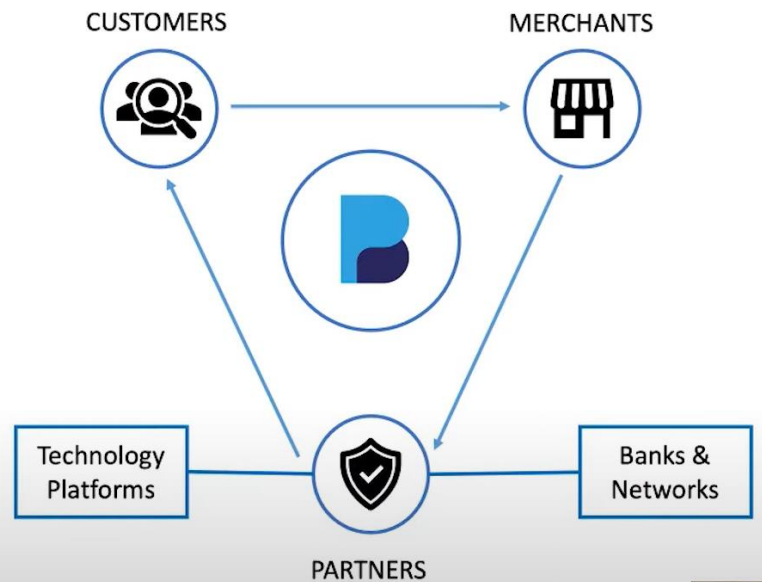
3. Subscription Fees:

- Some FinTech companies offer premium services for a subscription fee.

4. Advertising and Partnerships:

- Some platforms, particularly those in personal finance and payments, may generate revenue through partnerships or advertising. For example, credit score apps may offer targeted financial products from partners, earning a commission for each referral.

- ✓ Online Payments Platform
- ✓ Split from PayBay in 2015 and became an Independent company.
- ✓ CEO: Michael
- ✓ Hosts a diverse portfolio of credit products like credit card, pay later etc.
- ✓ Facilitates money transfer service for free of cost between any two PayBuddy users.
- ✓ Stakeholders –
 - ✓ Customers (like you and me!)
 - ✓ Merchants (like Lifestyle, BigBazaar)
 - ✓ Technology Platforms (like VISA, Mastercard)
 - ✓ Banks (like SBI, ICICI)



Functions of PayBuddy

1. Customer Role:

- Account Setup
- Making Purchases
- Payment Security

2. Merchant Role:

- **Receiving Payments:** Merchants integrate PayBuddy as a payment option on their website or app. When a customer pays through PayBuddy, the merchant receives the funds in their PayBuddy merchant account.
- **Transaction Fees:** Merchants usually pay a small fee for each transaction processed through PayBuddy. This fee covers PayBuddy's services, including payment processing and fraud protection.
- **Ease of Use:** PayBuddy simplifies the payment process for merchants, allowing them to accept payments without needing to handle or store sensitive customer data.

3. Partner Role:

- **Banks:** Banks are involved in processing payments. When a customer makes a purchase, PayBuddy contacts the bank associated with the customer's linked account to authorize the transaction.
- **Card Networks:** Networks like Visa, MasterCard, or others are the infrastructure through which payment information is transmitted and transactions are verified.
- **Fund Transfer:** Once the transaction is authorized, the customer's bank transfers the funds to PayBuddy, which then transfers the payment to the merchant's account.

How the Payment Process Works:

1. **Initiating Payment:** The customer initiates a payment by selecting PayBuddy at checkout.
2. **Authorization:** PayBuddy contacts the customer's bank or credit card network to verify if the customer has enough funds or credit to complete the transaction.
3. **Funds Transfer:** Upon approval, the bank or card network transfers the funds to PayBuddy.

4. **Merchant Payment:** PayBuddy then transfers the payment to the merchant's PayBuddy account.
5. **Transaction Completion:** The merchant is notified that the payment has been received, and the transaction is completed.

Security and Convenience:

- **Encryption:** PayBuddy uses encryption to protect transaction data, ensuring that sensitive information is securely transmitted.
- **Buyer Protection:** PayBuddy often offers buyer protection services, which can provide refunds or dispute resolution if there's a problem with a purchase.
- **Global Reach:** PayBuddy allows customers to make payments across different currencies and countries, making it a convenient option for international transactions.

Flow of Money: Step-by-Step Process

1. Customer Initiates a Payment:

- The customer selects a product or service to purchase and chooses PayBuddy as the payment method at checkout.
- They log in to their PayBuddy account and confirm the payment, choosing a linked bank account or credit/debit card as the source of funds.

2. PayBuddy Processes the Payment:

- PayBuddy securely transmits the payment request to the customer's bank or credit card network (e.g., HDFC Bank, Visa, MasterCard).
- This request includes details such as the amount to be charged, the merchant receiving the payment, and the customer's account information.

3. Bank or Card Network Authorization:

- The bank or card network receives the payment request and checks the customer's account to ensure there are sufficient funds or credit available.
- If the funds are available, the bank authorizes the transaction and approves the payment.

4. Funds Transfer to PayBuddy:

- Once the payment is authorized, the bank or card network transfers the payment amount to PayBuddy's account.
- This transfer is usually instantaneous, but it may take a few seconds to a few minutes depending on the payment method and bank.

5. PayBuddy Transfers Funds to the Merchant:

- After receiving the payment from the customer's bank, PayBuddy transfers the funds to the merchant's PayBuddy account.
- The merchant can then either withdraw the money to their bank account or keep it in their PayBuddy account for future use.

6. Merchant Receives Payment Confirmation:

- PayBuddy notifies the merchant that the payment has been processed and funds have been received.
- The merchant can then proceed to fulfill the customer's order, such as shipping a product or providing a service.

7. Customer Receives Payment Confirmation:

- PayBuddy also sends a confirmation to the customer, detailing the transaction amount, the merchant, and the payment method used.
- This confirmation often serves as a receipt for the customer's records.

Security Measures in the Flow of Money

- **Encryption:** PayBuddy uses encryption to protect sensitive information, such as bank account or credit card details, during the transaction process.
- **Fraud Detection:** PayBuddy has systems in place to detect and prevent fraudulent transactions. If suspicious activity is detected, the payment may be flagged or halted.
- **Two-Factor Authentication (2FA):** Customers may be required to authenticate their identity through an additional method (e.g., SMS code, email verification) before completing a payment.

Fees and Costs Involved

- **Transaction Fees for Merchants:** PayBuddy typically charges merchants a small percentage of the transaction amount as a processing fee. This fee covers the cost of handling the payment and providing security services.
- **Currency Conversion Fees:** If a customer and merchant are in different countries, PayBuddy may charge a fee for converting currencies. This fee is usually a small percentage of the transaction amount.

Handling Refunds and Disputes

- **Refund Process:** If a customer requests a refund, the merchant can initiate it through PayBuddy. The money is then transferred back from the merchant's account to the customer's bank or card.
- **Dispute Resolution:** PayBuddy often provides dispute resolution services, where they act as a mediator between the customer and merchant to resolve issues such as non-delivery of goods or incorrect charges.

Concept of "Buy Now, Pay Later" (BNPL) schemes, particularly how companies like PayBuddy and Amazon are implementing this financial service.

Overview of BNPL Schemes:

1. **Traditional Role of Payment Platforms:** Initially, platforms like PayBuddy acted as intermediaries, storing customers' payment details (like credit or debit cards) and facilitating transactions without offering credit themselves.
2. **Evolution to Credit Offering:** Companies like PayBuddy have started offering their own credit options, even to customers who may not have traditional credit cards. This is typically offered as a virtual credit card or BNPL service.

3. How BNPL Works:

- Customers can purchase items and pay for them over a period (e.g., 2-3 months) without interest.
- The platform advances the payment to the merchant and collects installments from the customer.

4. Business Model and Motivation:

- **No Interest Model:** Unlike traditional credit cards that charge interest on unpaid balances, BNPL schemes often do not charge interest for short-term credit (e.g., 2-3 months).
- **Volume and Engagement:** The primary motivation for offering BNPL is to increase customer engagement and transaction volume. By making purchases more accessible, companies hope to drive more frequent transactions and build customer loyalty.

5. Creditworthiness Assessment:

- **Customer History:** Platforms may evaluate customers' purchasing history and previous payment behavior.
- **External Credit Scores:** Companies might also use external credit scoring services (like CIBIL in India) to assess the likelihood of a customer repaying the credit.

6. Target Customers:

- BNPL is particularly appealing to customers who do not have access to traditional credit or prefer spreading payments without incurring interest.

7. Product-Specific Considerations:

- Customers are more likely to use BNPL for high-value, impulsive purchases (e.g., electronics) rather than everyday items like groceries.

8. Business Challenges:

- Identifying which customers and products are suitable for BNPL.
- Ensuring that customers who are given credit are likely to repay it.

Case Study Considerations:

- **Customer Identification:** PayBuddy would need to analyze its customer base to identify which customers are most likely to adopt the BNPL option.
- **Product Relevance:** Understanding which types of products are more likely to be purchased using BNPL can help tailor marketing efforts and credit offerings.

PayBuddy, like other Buy Now, Pay Later (BNPL) providers, likely decides the credit limit for each customer by considering a combination of factors to assess their creditworthiness and ability to repay

1. Customer Purchase History:

- **Frequency of Transactions:** Regular customers with a history of frequent transactions may be seen as more reliable and might receive a higher credit limit.

- **Average Purchase Amount:** Customers who typically make larger purchases may be given a higher credit limit compared to those who make smaller purchases.

2. Payment History:

- **Timely Payments:** Customers who have a history of making payments on time, whether through previous BNPL transactions or other payment methods, are likely to be granted a higher credit limit.
- **Missed or Late Payments:** A history of missed or late payments might lead to a lower credit limit or disqualification from BNPL services.

3. External Credit Scores:

- **Credit Bureaus:** PayBuddy might check customers' credit scores through external credit bureaus (like CIBIL in India, Experian, or Equifax) to gauge their creditworthiness.
- **Credit Score Range:** Higher credit scores generally indicate a lower risk of default, which could result in a higher credit limit.

4. Income and Employment Information:

- **Income Verification:** Some BNPL providers might ask for income details to ensure that customers have the means to repay the credit.
- **Employment Status:** Being employed or having a steady source of income could positively influence the credit limit offered.

5. Behavioral Analytics:

- **Spending Patterns:** Advanced analytics might be used to understand a customer's spending behavior, such as the types of products they purchase and how often they shop.
- **Risk Assessment Models:** Companies might use machine learning models to predict the likelihood of repayment based on customer behavior and transaction history.

6. Credit Limit Adjustments:

- **Initial Limit:** New customers might start with a lower credit limit, which can be gradually increased as they demonstrate responsible repayment behavior.
- **Ongoing Assessment:** The credit limit might be reviewed periodically, and adjusted based on the customer's payment behavior and any changes in their financial situation.

7. BNPL-Specific Considerations:

- **Product Type:** The type of products a customer typically buys may influence the credit limit. For example, high-value items might warrant a higher credit limit if the customer has a good repayment history.
- **Repayment Terms:** The repayment term chosen by the customer (e.g., 3 months vs. 12 months) might also affect the credit limit, with shorter terms potentially allowing for higher limits.

What Happens If a Customer Fails to Repay?

- **Late Fees:** If a customer misses a payment, they might be charged a late fee.
- **Credit Score Impact:** Repeated missed payments could negatively impact the customer's credit score.

"Nudge Economics" and AI-driven propensity models in marketing and e-commerce.

1. **Nudge Economics:** This involves guiding consumers towards a particular decision or product without restricting their choice. It's based on the idea that consumers are often busy, lazy, or confused, so they are likely to go with the default or most prominent option presented to them.
2. **AI-Driven Propensity Models:** These models analyze large amounts of data about a user's past behavior, preferences, and similarities to other users to predict what they are most likely to purchase next. This allows companies to personalize the shopping experience by showing relevant products or payment options.
3. **Recommendation Engines:** Used by companies like Netflix, these engines suggest content or products to users based on their previous interactions and the behavior of similar users.

Promoting the "Pay Later" option using nudge economics:

1. Segmentation and Targeting

- **Customer Segmentation:** Divide the customer base into segments based on behavior, transaction history, and credit profile. For example, identify customers who frequently make high-value purchases or those who use credit cards more often.
- **Targeted Promotions:** Design promotional messages and offers tailored to each segment. For instance, offer special incentives or lower interest rates to high-value customers or those who have shown an interest in credit products.

2. Personalized Messaging

- **Customized Offers:** Use customer data to create personalized offers. For example, if a customer frequently buys fashion items, they might receive a tailored message about using "Pay Later" for their next fashion purchase.
- **Behavioral Triggers:** Implement messaging based on customer behavior. If a customer abandons a cart with high-value items, they might receive a nudge encouraging them to use "Pay Later" to complete the purchase.

3. Social Proof and Defaults

- **Social Proof:** Highlight how many customers like them are using "Pay Later." This could be shown through testimonials, reviews, or statistics indicating widespread use.
- **Default Options:** Make "Pay Later" the default payment option during checkout, with an easy opt-out if they prefer another method. This leverages the default effect, where people are more likely to stick with the default option.

4. Incentives and Rewards

- **Incentives:** Offer rewards or discounts for using "Pay Later." For example, provide a discount on the next purchase or cashback if they choose "Pay Later" for their current transaction.
- **Gamification:** Implement gamified elements where customers earn points or badges for using "Pay Later," which can be redeemed for rewards or discounts.

5. Ease of Use and Accessibility

- **Simplified Application:** Ensure that the process for opting into "Pay Later" is seamless and easy. Reduce friction by minimizing the number of steps required to select and use this payment option.

- **Clear Communication:** Clearly communicate the benefits and terms of "Pay Later" in a straightforward manner to avoid confusion and build trust.

6. Feedback Loops and Optimization

- **A/B Testing:** Conduct A/B tests to evaluate the effectiveness of different promotional strategies and messaging. For example, test different offers or messages to see which performs better.
- **Analytics and Adjustment:** Use analytics to track the success of the marketing campaigns and adjust strategies based on data-driven insights. For instance, if certain customer segments respond better to specific incentives, focus on those strategies.

What is A/B testing:

A/B testing, also known as split testing, is used to compare two versions of a variable to determine which one performs better. This technique helps in optimizing marketing strategies, website designs, or other business practices based on empirical data.

Example:

- Test Variable: Email subject line
 - Version A: "Exclusive Offer Just for You!"
 - Version B: "Don't Miss Out on This Special Discount!"
- Metrics Tracked: Open rate, click-through rate, and conversion rate.
- Results: If Version B has a higher open rate and click-through rate, it suggests that the subject line in Version B is more effective in engaging the audience.