**Instapay**

**Team Members:**

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**Tuesday 6:30**

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1. **Instapay Description**

InstaPay is a mobile application developed under the governance of the Central Bank of Egypt (CBE) that enables users to instantly transfer money between bank accounts, digital wallets, and Meeza cards. It is a breakthrough in the Egyptian digital financial services landscape, promoting financial inclusion and real-time transactions. This report explores the business model, technical framework, benefits, and limitations of the InstaPay mobile commerce solution.

1. **The Business Model Description**

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1. **The Structure of Instapay**

**Introduction**

**Business Model**

**Technical Framework**

**Use Case Workflow**

**Security Features**

**User Interface Design**

**Benefits**

**Limitations**

**Code or Technical Stack**

1. **The Framework of Instapay**

A diagram of a process

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1. **Use Case of Instapay**

**User downloads the InstaPay app.**

**User registers with their national ID and links their bank account or wallet.**

**User initiates a transfer by entering the recipient’s phone number or IBAN.**

**System verifies and processes the transaction via IPN.**

**Both sender and recipient receive real-time confirmations.**

**Transactions are logged securely for auditing and traceability.**

1. **Security issues of Instapay**

**Risks:**

* Phishing attacks.
* System outages.

**Solutions:**

* **OTP/2FA** for transaction approval.
* **End-to-end encryption** (SSL/TLS).
* **Fraud monitoring** AI to flag suspicious activity

1. **The user interface of the Proposed M-Commerce Report**

InstaPay has a clean, modern, and intuitive user interface. Key features include:

* **Quick access to frequent transfers**
* **Smart search for recipients**
* **Arabic and English language support**
* **Dashboard showing recent transactions**
* **Easy linking of new bank accounts or wallets**

1. **The Main Benefits of Instapay**

**Real-time money transfers 24/7**

**No need to visit bank branches or use ATMs**

**Speed: 24/7 instant transfers.**

**Cost-Effective: Lower fees than traditional methods.**

1. **The limitations of Instapay**

**Transaction Caps: EGP 50,000/day (varies by bank).**

**Bank Dependency: Requires recipient’s bank to support InstaPay.**

**No International Transfers: Limited to Egyptian banks.**

1. **The code of Instapay**

**def instapay\_transfer (sender, receiver, amount):**

**if sender.balance >= amount and receiver.is\_valid:**

**sender.balance -= amount**

**receiver.balance += amount**

**log\_transaction (sender, receiver, amount)**

**return "Transfer successful"**

**else:**

**return "Error: Insufficient funds or invalid recipient"**